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Draft Shallow Soil Sampling Report
Former Chem Fab Site & Surrounding Areas
1030 Water Street
Village of North Bennington
Bennington County, Vermont
VTDEC SMS Site #20164630

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SHALLOW SOIL SAMPLING REPORT
FORMER CHEM FAB SITE & SURROUNDING AREAS
1030 WATER STREET
VILLAGE OF NORTH BENNINGTON
BENNINGTON COUNTY, VERMONT

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1.0 INTRODUCTION

This report presents the findings for the shallow soil sampling investigation conducted at and surrounding the former Chem Fab Site addressed as 1030 Water Street in the Village of North Bennington, Bennington County, Vermont. The Site has been identified by the Vermont Department of Environmental Conservation (VTDEC) Site Management Section (SMS) as Site #20164630. A Site Location Map is presented in Appendix A.

The purpose of the investigation was to evaluate the presence and distribution of Perfluorinated Compounds (PFCs), inclusive of Perfluorooctanoic acid (PFOA), in shallow soil at locations within the Site boundaries and at select off-site locations. In addition to sampling shallow soils, samples were collected from topsoil stockpiles at a garden nursery, and of sludge from the Bennington Wastewater Treatment Facility (WWTF).

The sampling locations were selected in consultation with the VTDEC.

This report provides a summary of the following:

- Identification and location of all sampling points;
- Field sampling methods, laboratory analytical methods, sampling deviations, decontamination procedures, and quality control;
- Analytical result tables and, analytical laboratory reports as prepared by the laboratory of record;
- Data validation (pending);
- Comparison of PFOA analytical results to the Vermont Soil Screening Value for PFOA in soils;
- Evaluation of PFCs and PFOA in terms of average concentration and depth, total concentration and depth, and average concentration and distance from the Site; and
- Discussion of Findings.

2.0 METHOD OF INVESTIGATION

A total of 145 shallow soil samples from 40 sampling locations, 2 topsoil stockpile samples from 2 sampling locations, and 1 municipal sewer sludge sample were collected at the sampling locations as depicted in Figure 2, Appendix A. The latitude and longitude coordinates for each of the sampling locations are presented in Sample Summary Tables in Appendix B. The topsoil stockpile and the majority of the shallow soil samples were collected from March 16 to 24, 2016. The municipal sewer sludge sample was collected on March 22, 2016. The final soil samples were collected on May 11, 2016.

2.1 Laboratory Services

For this investigation, Eurofins Lancaster Laboratories Environmental, LLC (ELLE) of Lancaster, PA was the laboratory of record and analyzed the project related media samples.

The soil samples were analyzed for the following parameters by the corresponding methods:

- Total Organic Carbon (TOC): Standard Method 5310B, modified 2000
- Moisture Content: Method: Standard Method G-1997
- PFCs: EPA Method 537 Rev. 1.1

The following PFCs were analyzed by ELLE per Method 537 Rev. 1.1.

Compound	CAS Number
Perfluorobutanesulfonate (PFOS)	375-73-5
Perfluorodecanoic acid	335-76-2
Perfluorododecanoic acid	307-55-1
Perfluoroheptanoic acid	375-85-9
Perfluorohexanesulfonate	355-46-4
Perfluorohexanoic acid	307-24-4
Perfluorononanoic acid	375-95-1
Perfluoro-octanesulfonate	1763-23-1
Perfluorooctanoic acid (PFOA)	335-67-1
Perfluorotetradecanoic acid	376-06-7
Perfluorotridecanoic acid	72629-24-8
Perfluoroundecanoic acid	2058-94-8

2.2 Data Validation

USEPA Level IV data delivery packages were generated by ELLE for the purpose of independent data validation.

The project generated analytical data will be independently validated by Environmental Standards of Valley Forge, PA.

The data deliverable packages generated by the laboratory for each Sample Delivery Group (SDG) are currently in the process of being validated. All results presented herein should be considered "**Unvalidated**" until the validation process has been completed and reported.

2.3 Sampling Method

2.3.1 Shallow Soil Sampling

The shallow soil samples were collected manually with decontaminated, 3-inch diameter stainless steel hand augers. At each sampling location, an approximate 5′ by 5′ section of 6 mil polyethylene plastic sheeting was laid on the ground surface over the sampling location. An approximate 1′ by 1′square section of the sheeting was then cut away to expose the sampling location. Vegetation (i.e. grass, leaf litter, twigs, etc.) extending above the ground surface was removed and the shallow soil below was collected with the hand auger.

Shallow soil samples were collected from each sampling location at 0-6″, 6″-12″, 12″-18″ and 18″-24″ depth intervals. The hand auger was decontaminated between each sampling interval. C.T. Male field technicians donned a new pair of disposable powder-free nitrile gloves while handling each soil sampling interval. Each soil sample was placed in a decontaminated stainless steel bowl and homogenized with a decontaminated stainless steel spoon. An aliquot was then transferred into laboratory provided sampling containers and the containers were placed in a laboratory provided cooler containing ice. The samples were forwarded to ELLE under a Chain of Custody (COC) for analysis of PFC, Total Organic Carbon (TOC) and Moisture Content. The remaining soil from each sample interval was transferred into an XL Ziploc® bag and retained at C.T. Male for potential grain size distribution analysis by ASTM D-422. The

3″ diameter by 2′ deep auger hole was filled with bagged topsoil purchased from a national home improvement center.

2.3.2 Topsoil Stockpile Sampling

Samples were collected from 2 topsoil stockpiles produced by Pembroke Landscaping, located at 132 Harrington Road, North Bennington. At each stockpile location, 5 grab samples of topsoil were collected, by hand, by a technician wearing new disposable powder-free nitrile gloves. The samples were collected at approximate equidistant locations around the stockpile and were collected from the stockpile surface to a depth of approximately 6 inches. The grab samples were placed in a decontaminated stainless steel bowl and homogenized with a decontaminated stainless steel spoon to form a composite sample. An aliquot was then transferred into laboratory provided sampling containers and the containers were placed in a laboratory provided cooler containing ice. The samples were forwarded to ELLE under a COC for analysis of PFC, TOC, and Moisture Content. The remaining soil generated by each sample was transferred into an XL Ziploc® bag and retained at C.T. Male for possible grain size distribution analysis by ASTM D-422.

2.3.3 Municipal Sewer Sludge Sampling

One liquid sewer sludge sample was collected from the Bennington WWTF located at 244 Harrington Road, North Bennington, New York. The sample was collected from the treatment process prior to the material being pumped from the digester to the dewatering process. The sample was directly placed into laboratory provided sampling containers which were then placed in a laboratory provided cooler containing ice. The samples were forwarded under a COC to ELLE for PFC analysis.

2.4 Sampling Deviations

There was one deviation to the shallow soil sampling protocol. The approved sampling plan required the collection of individual shallow soil samples from the 0-6″, 6″-12″, 12″-18″ and 18″-24″ depth intervals. Due to the presence of cobbles and rocks, referred to as "refusal," the hand auger could not be advanced to the intended depth intervals at several sampling locations. Three attempts were made at each depth interval where refusal was encountered. When there was more than one attempt made at a location,

the subsequent attempts were made adjacent to previous attempts located on the same sheet of 5′ by 5′ polyethylene plastic sheeting. The sampling locations and depth intervals where samples were not collected due to refusal are referenced with "NS" in Table 1 of Appendix B, and with an "X" in the table below.

Sampling Location	12″-18″	18″-24″
22 Asa Way	X	X
2009 North Bennington Road		X
980 Park Street		X
15 Polygraphic Lane	X	X
59 River Road (Playground Slide)	X	X
15 Scarey Lane	X	X
26 Scarey Lane	X	X
9 School Street (Maple Tree)		X
9 School Street (Northeast Corner of Parking Lot)		X
37 Susan Taylor Lane		X

2.5 Quality Control

Quality Control (QC) samples were generated/collected during the sampling event and consisted of Duplicate Samples, Equipment Rinse Blanks, Matrix Spike/Matrix Spike Duplicates (MS/MSD), Field Trip Blanks and Laboratory Trip Blanks. The QC samples were analyzed for the list of PFCs in Section 2.1 above.

Duplicate Samples were collected by transferring equal amounts of the homogenized sample into the parent and duplicate sampling containers. One field duplicate sample was collected per 20 media samples collected.

Equipment Rinse Blanks were collected of the hand augers used to collect the shallow soil samples and the stainless steel bowls used to homogenize the soil and the topsoil stockpile samples. For the hand auger, laboratory supplied deionized water was poured over and through the decontaminated hand auger and captured in laboratory provided sampling containers. For the stainless steel bowls, laboratory supplied deionized water was poured into the decontaminated stainless steel bowl and transferred from the bowl into laboratory provided sampling containers. Equipment rinse blanks were collected per each 20 media samples collected.

The MS/MSD samples were collected by transferring equal amounts of the homogenized sample into the parent, MS and MSD sampling containers. One set of MS/MSD samples were collected per 20 media samples.

The Laboratory Trip Blank was prepared by the laboratory and remained in its designated sampling container cooler from the time it was prepared in the laboratory to the time that it was returned to the laboratory with the media samples.

The Field Trip Blanks were prepared in the field by pouring laboratory grade reagent water supplied by the laboratory into empty laboratory supplied sample containers and returning the samples to the laboratory with the media samples.

2.6 Decontamination Procedures

Sampling equipment that was decontaminated in the field included the hand augers used to collect shallow soil samples, and stainless steel bowls/spoons used to homogenize the shallow soil and topsoil samples. The tools used to decontaminate the equipment were: a scrub brush, non-phosphate detergent (Alconox® solution), and Poland Spring® 100% Natural Spring Water. One 5 gallon bucket was partially filled with Poland Spring® water and Alconox solution, while a second 5 gallon bucket was used to rinse the equipment with Poland Spring® water. The C.T. Male Field Technician donned new disposable powder-free nitrile gloves when decontaminating the equipment. Following decontamination, the equipment was laid out to dry on clean 6′ by 6′ polyethylene plastic sheeting. The two 5-gallon buckets containing cleaning reagent water were covered with a lid and stored for later accumulation in a 55 gallon steel drum. A new set of decontaminated 5 gallon pails were used at each soil sampling location.

2.7 Investigation Derived Wastes

Investigation derived wastes included the sampling equipment decontamination water, and solid materials including plastic sheeting, used gloves, empty water containers and waste paper. At the end of each sampling day, the 5 gallon buckets of decontamination water were transferred into a 55-gallon drum and staged pending off-site disposal at a permitted disposal facility. The solid materials were disposed of in the municipal trash dumpster at C.T. Male's Latham, NY office.

3.0 FINDINGS

3.1 Analytical Results

A summary of the analytical results for each soil, topsoil and sludge sample is presented in the individual tables in Appendix B. Table 1 in Appendix B provides a summary of PFOA detections only in the soil, topsoil and sludge samples. The full sets of analytical reports (unvalidated) are presented in Appendix C. A map showing sampling locations and PFOA concentrations in shallow soil, topsoil stockpiles and wastewater treatment facility sludge is presented in Figure 3 in Appendix A.

The analytical result for the sludge sample for the WWTP was analyzed as an aqueous sample as the liquid content of the sample was high. The analytical result for this sample indicates the detection of PFOA at 350 ng/L, or parts per trillion.

As indicated in individual summary tables for each of the soil sampling locations, individual PFCs were predominantly detected in soils at concentrations less than 10 ppb. A minority of samples detected individual PFCs at concentrations greater than 10 ppb to less than 100 ppb. These sample locations were primarily located within the former Chem Fab Site. At two sampling locations, the Small and Large Playgrounds at 9 School Street (The Village School), PFCs were not detected in the soil sample intervals collected.

In comparison to the Vermont Soil Screening Value (0.3 parts per million or 300 ppb), VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value, all PFOA concentrations were detected at concentrations well below the Soil Screening Value. The highest PFOA concentrations detected were 20 ppb in the 0 to 6" interval at sampling location 1030 Water Street- Vent W (western side of the Site building), and 45 ppb in the 12" to 18 " interval at 2009 North Bennington Road.

At all but two of the soil sampling locations (59 River Road Playground Roadside and 59 River Road Playground Slide), the vertical limit of PFCs and PFOA in soils was not defined. Similarly, the PFCs and PFOA horizontal limits were not defined within the sampling area. The laboratory data was further evaluated as presented in the following sections.

3.1.1 Average Total PFC & PFOA Concentrations vs. Sample Interval Depth

The average Total PFC and PFOA concentration per sampling depth was graphed (Chart 1) as follows.

The 0 to 6″ sample depth interval exhibited the highest average PFC concentration; 9.67 ppb verses a low of 6.0 ppb in the 6″ to 12″ interval.

The 12″ to 18″ sample depth interval exhibited the highest average PFOA concentration; 4.19 ppb verses a low of 2.59 ppb in the 6″ to 12″ sample interval.

There is no observable trend in the average PFC and average PFOA concentration data with increasing depth below surface.

3.1.2 Average Total PFC & PFOA Concentrations vs. Distance From Site Building

As shown in Chart 2 as follows, there appears to be a linear declining trend between highest average of total PFCs and PFOA, and the distance from the Site. The highest average of total PFCs concentration (17.23 ppb) was greatest closest to the Site and decreased to 1.5 ppb at 4,500 feet ± from the Site. The highest average PFOA concentrations (4.40 and 4.74 ppb) were greatest at 0 to 1,000 feet from the Site and similarly declined with increasing distance from the site.

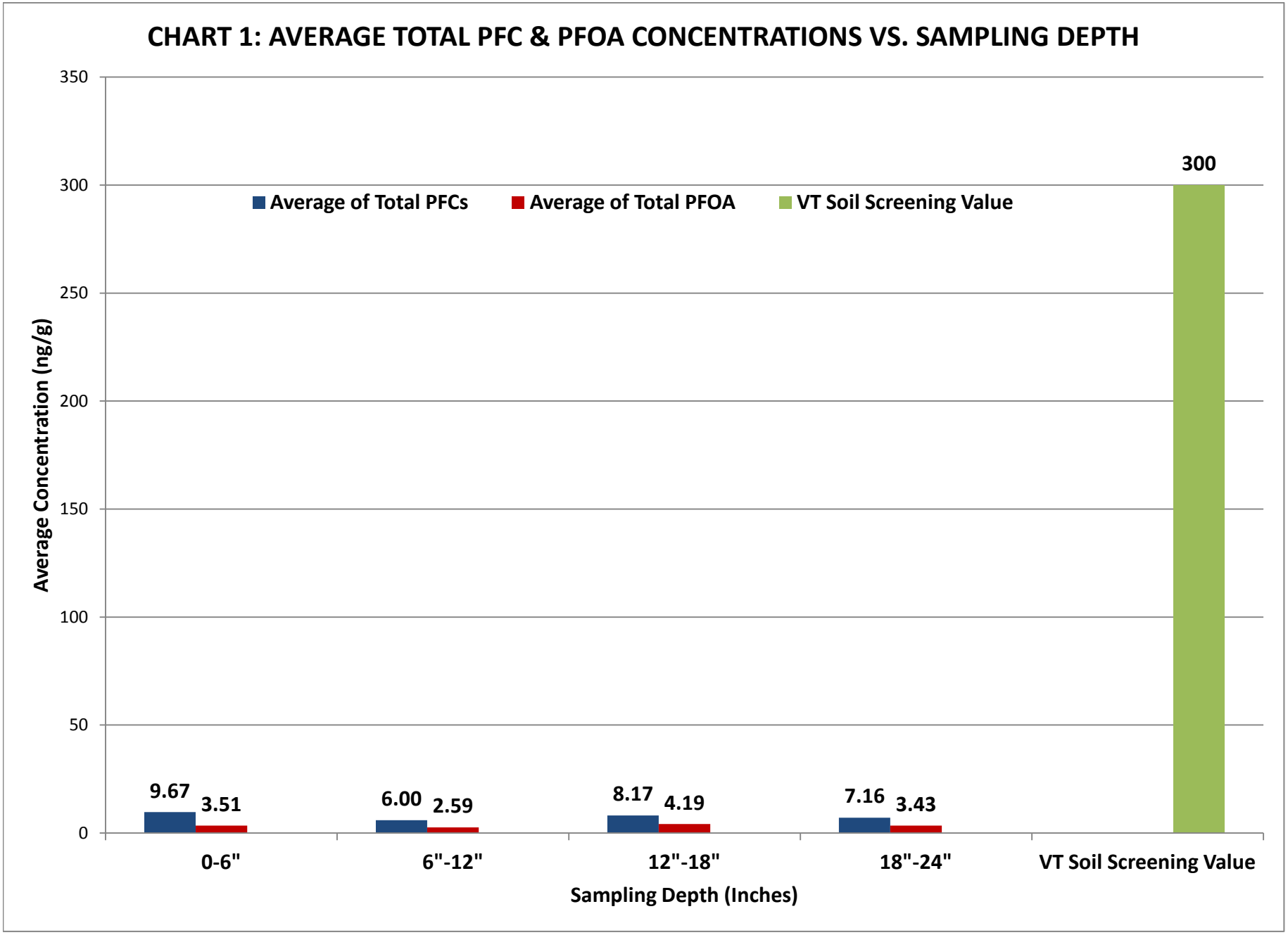


CHART 1: AVERAGE TOTAL PFC & PFOA CONCENTRATIONS VS. SAMPLING DEPTH
Average Concentration (ng/g)
350
300
250
200
150
100
50
0
Average of Total PFCs
Average of Total PFOA
VT Soil Screening Value
9.67
3.51
6.00
2.59
8.17
4.19
7.16
3.43
300
0-6"
6"-12"
12"-18"
18"-24"
VT Soil Screening Value
Sampling Depth (Inches)

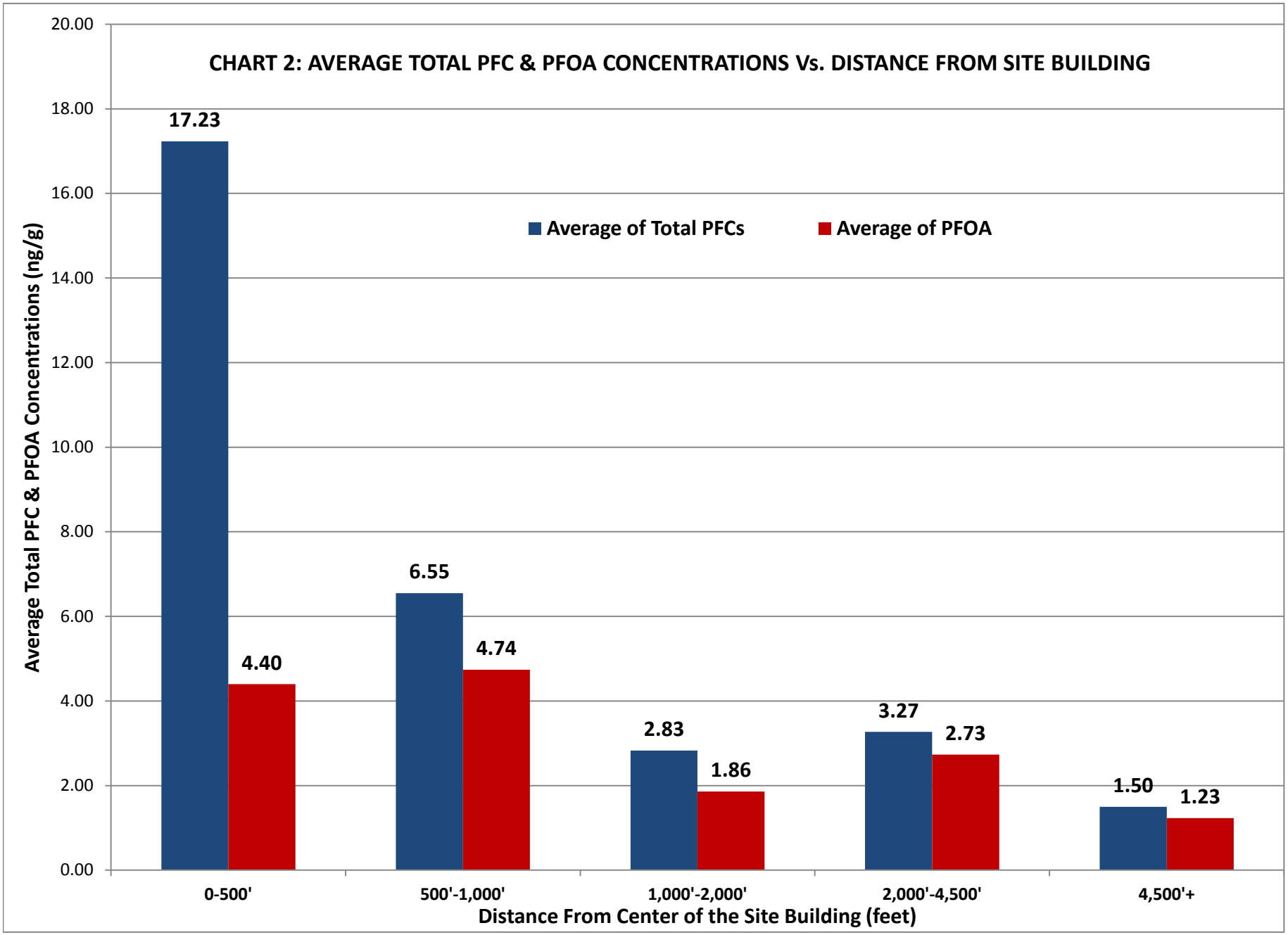


CHART 2: AVERAGE TOTAL PFC & PFOA CONCENTRATIONS Vs. DISTANCE FROM SITE BUILDING
Average Total PFC & PFOA Concentrations (ng/g)
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Average of Total PFCs
Average of PFOA
17.23
4.40
6.55
4.74
2.83
1.86
3.27
2.73
1.50
1.23
0-500'
500'-1,000'
1,000'-2,000'
2,000'-4,500'
4,500'+
Distance From Center of the Site Building (feet)

4.0 DISCUSSION OF FINDINGS

A total of 43, VTDEC preselected locations, were sampled within the study area for PFC analysis. Samples were collected from 4-six inch intervals to a total depth of 2 feet below existing grades. In a limited number of incidences, all 4 sampling depth intervals were not collected due to physical subsurface obstructions. Samples were able to be obtained at a minimum depth of 12 inches at these locations.

At all soil sampling locations, the concentration of PFOA in the soils were below the Vermont Soil Screening Value of 300 ppb. The majority of the PFOA concentrations in the soil samples were less than 10 ppb. Concentrations of PFOA greater than 10 ppb and less than 50 ppb were detected only within the Former Chem Fab property and at one sample interval at 2009 North Bennington Road.

The intent of this soil sampling event was to collect and analyze surface soils to a depth of 2 feet below surface. When comparing the average concentration of PFCs and PFOA at each depth across the site, the concentrations did not necessarily decrease with increasing depth below surface in all instances, but were relatively similar. Concentrations of PFCs and PFOA decreased with increasing distance from the site.

APPENDIX A
FIGURES

FIGURE 1

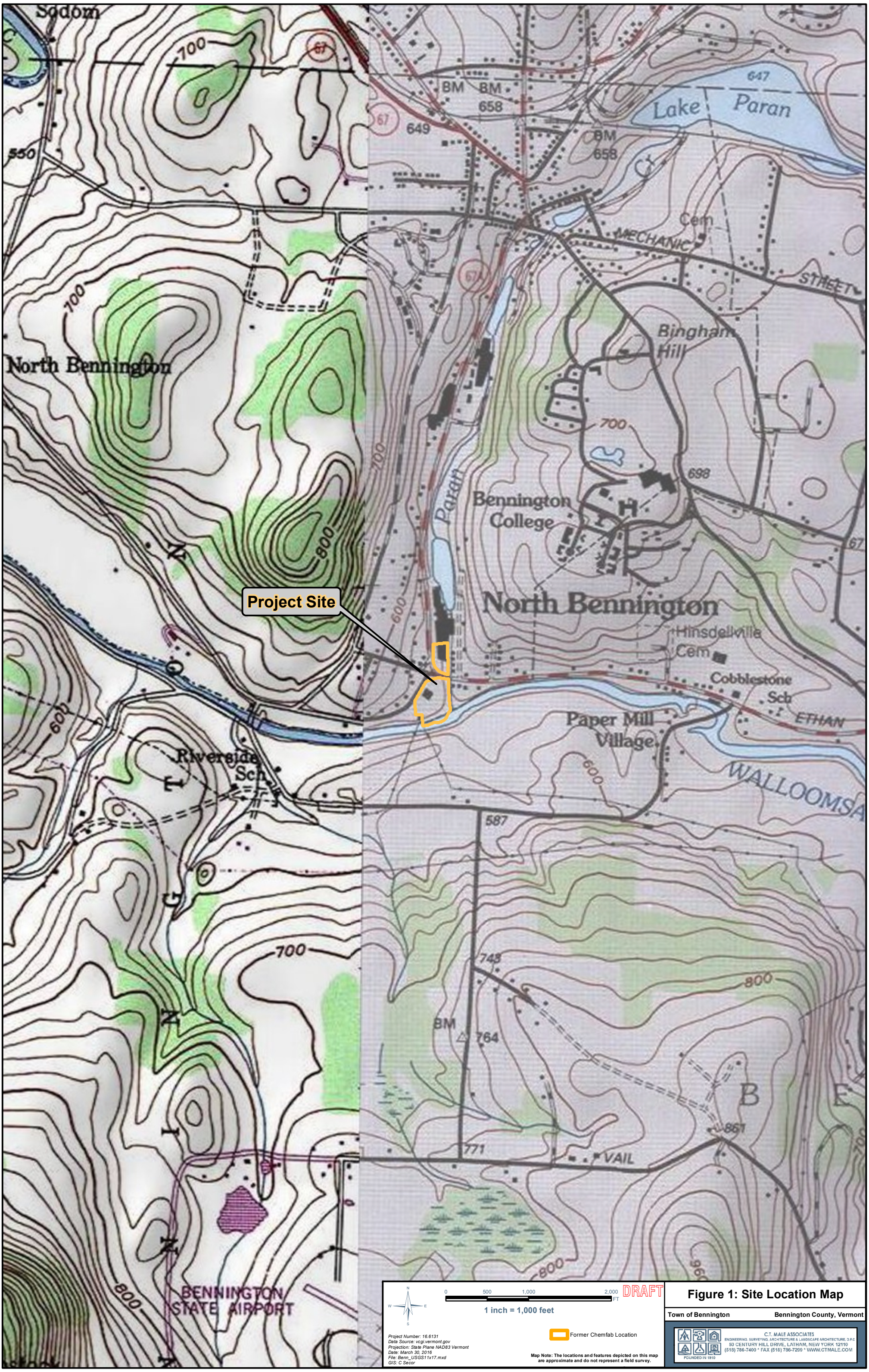
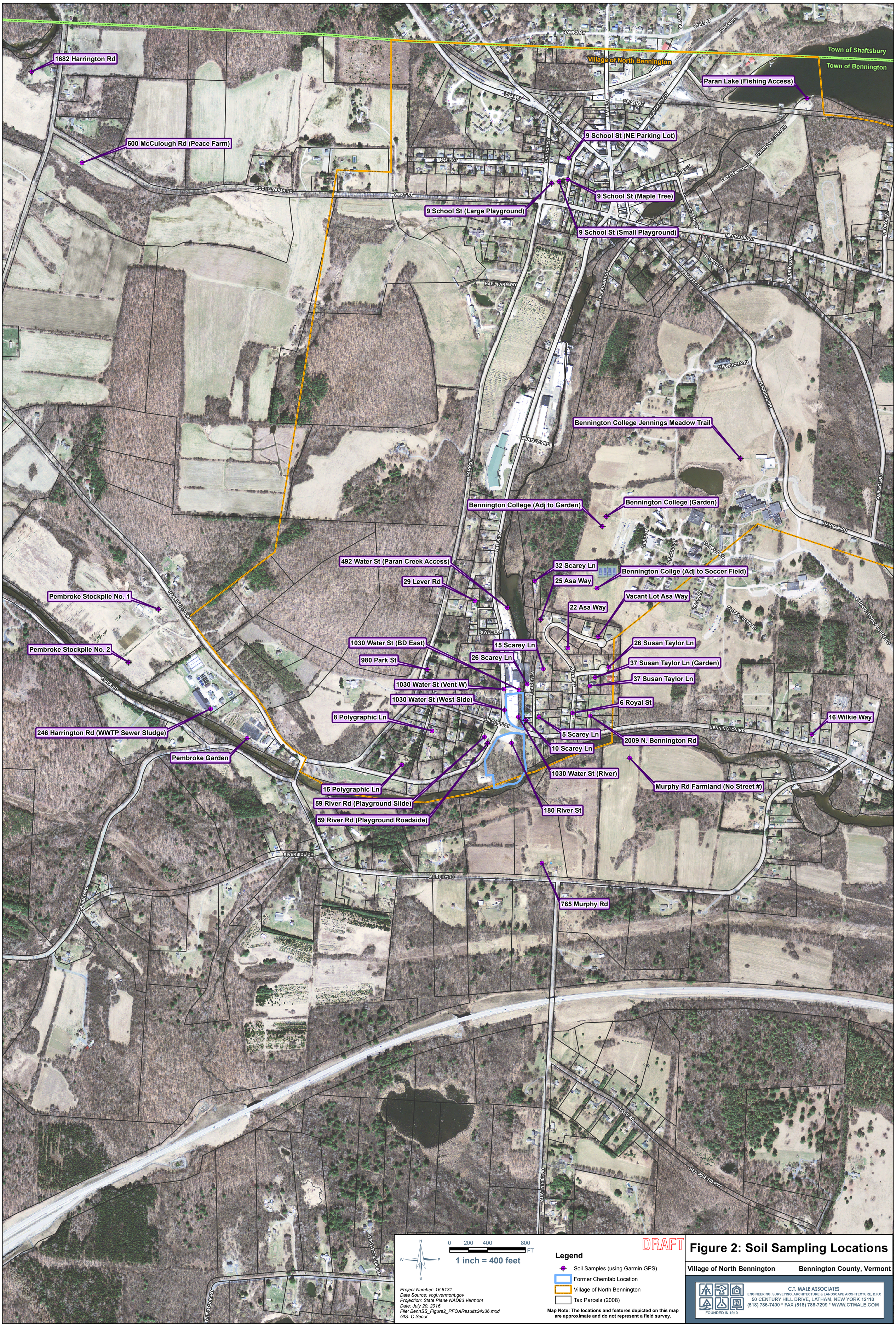


Figure 1: Site Location Map

Town of Bennington — Bennington County, Vermont

FIGURE 2


1682 Harrington Rd
500 McCulough Rd (Peace Farm)
Village of North Bennington
Town of Shaftsbury
Town of Bennington
Paran Lake (Fishing Access)
9 School St (NE Parking Lot)
9 School St (Maple Tree)
9 School St (Large Playground)
9 School St (Small Playground)
Bennington College Jennings Meadow Trail
Bennington College (Adj to Garden)
Bennington College (Garden)
492 Water St (Paran Creek Access)
32 Scarey Ln
25 Asa Way
Bennington Collge (Adj to Soccer Field)
29 Lever Rd
Vacant Lot Asa Way
22 Asa Way
Pembroke Stockpile No. 1
Pembroke Stockpile No. 2
1030 Water St (BD East)
15 Scarey Ln
26 Susan Taylor Ln
980 Park St
26 Scarey Ln
37 Susan Taylor Ln (Garden)
37 Susan Taylor Ln
1030 Water St (Vent W)
1030 Water St (West Side)
6 Royal St
8 Polygraphic Ln
16 Wilkie Way
246 Harrington Rd (WWTP Sewer Sludge)
5 Scarey Ln
2009 N. Bennington Rd
10 Scarey Ln
Pembroke Garden
1030 Water St (River)
Murphy Rd Farmland (No Street #)
15 Polygraphic Ln
59 River Rd (Playground Slide)
180 River St
59 River Rd (Playground Roadside)
765 Murphy Rd
HAWKS AV
VT RT 67
PARAN RD
DEPOT ST
MAIN ST
HOUGHTON ST
BANK ST
CHURCH ST
HALL ST
MCCULLOUGH RD
WEST ST
GAGE ST
LAKE PARAN RD
FISHING ACCESS RD
NORTH ST
MECHANIC ST
BROMLEY LA
PROSPECT ST
FREDRICK ST
GEORGE ST
PLEASANT ST
HALL FARM RD
THE ORCHARD
JENNINGS DR
INDUSTRY RD
PARK ST
WATER ST
HARLAN RD
COLLEGE RD
THIRD ST
SECOND ST
CAMPUS RD
VIRGIL RD
OLD FACULTY RD
BENNINGTON COLLEGE RD
HARRINGTON RD
SWEET RD
ROYAL ST
SCAREY LA
HILLSIDE ST
BENNINGTON RD
RIVER RD
RIVERSIDE DR
MURPHY RD
GREEDE RD
BARD RD
RED PINE RD PVT
AUSTIN HILL RD
WESTWOOD DR PVT
WHIPSTOCK RD
N
S
E
W
0 200 400 800
FT
1 inch = 400 feet
DRAFT
Legend
Soil Samples (using Garmin GPS)
Former Chemfab Location
Village of North Bennington
Tax Parcels (2008)
Map Note: The locations and features depicted on this map are approximate and do not represent a field survey.
Project Number: 16.6131
Data Source: vcgi.vermont.gov
Projection: State Plane NAD83 Vermont
Date: July 20, 2016
File: BennSS_Figure2_PFOAResults24x36.mxd
GIS: C Secor
Figure 2: Soil Sampling Locations
Village of North Bennington
Bennington County, Vermont
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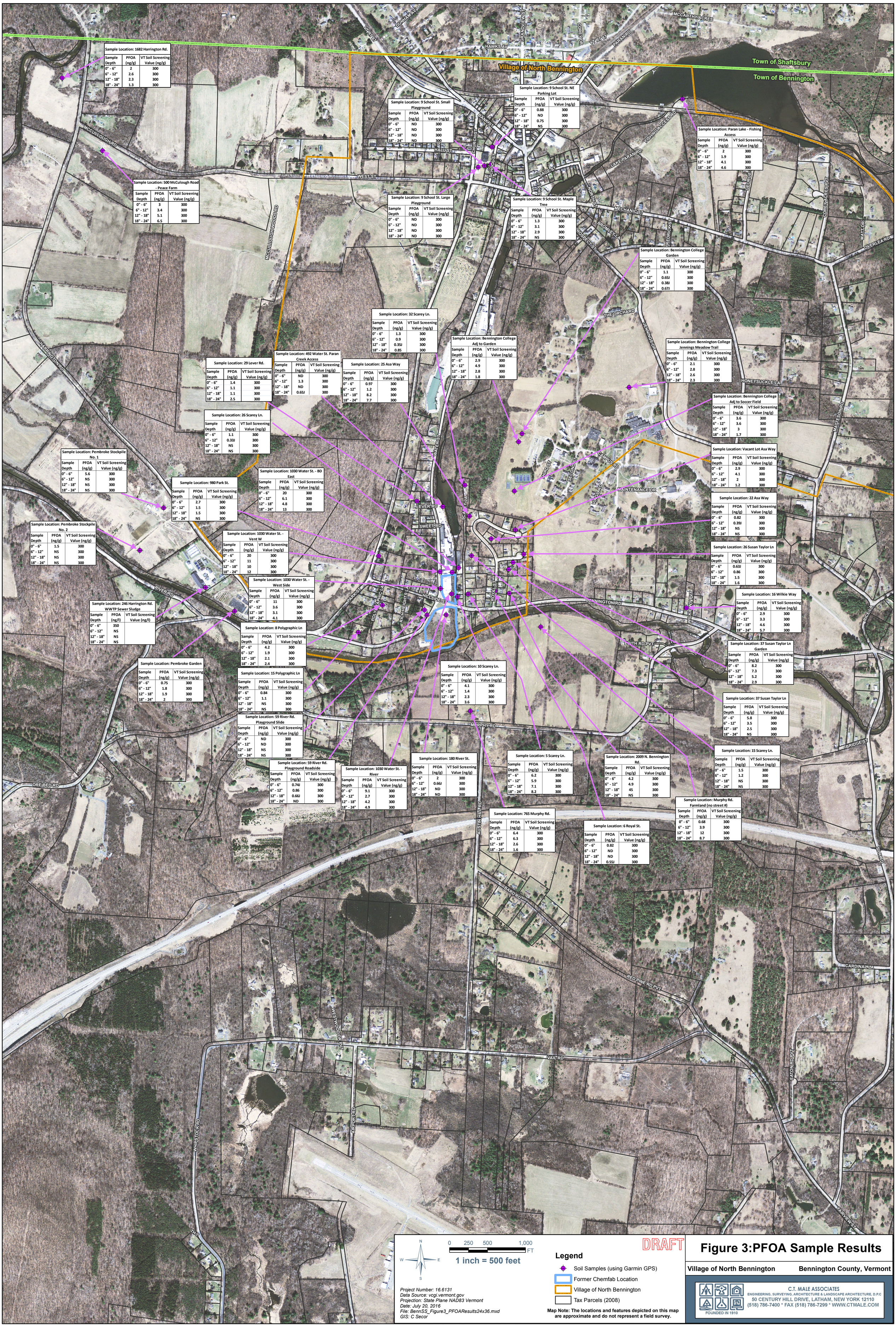
FOUNDED IN 1910

FIGURE 3



Sample Location: 1682 Harrington Rd.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	2	300
6" - 12"	2.6	300
12" - 18"	2.3	300
18" - 24"	1.3	300

Sample Location: 9 School St. Small Playground

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	ND	300
6" - 12"	ND	300
12" - 18"	ND	300
18" - 24"	ND	300

Sample Location: 9 School St. NE Parking Lot

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.88	300
6" - 12"	ND	300
12" - 18"	0.75	300
18" - 24"	NS	300

Sample Location: Paran Lake - Fishing Access

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	2	300
6" - 12"	1.9	300
12" - 18"	4.1	300
18" - 24"	4.6	300

Sample Location: 500 McCulough Road - Peace Farm

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	3	300
6" - 12"	3.4	300
12" - 18"	5.1	300
18" - 24"	6.5	300

Sample Location: 9 School St. Large Playground

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	ND	300
6" - 12"	ND	300
12" - 18"	ND	300
18" - 24"	ND	300

Sample Location: 9 School St. Maple Tree

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	1.3	300
6" - 12"	3.1	300
12" - 18"	2.9	300
18" - 24"	NS	300

Sample Location: Bennington College Garden

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	1.1	300
6" - 12"	0.65J	300
12" - 18"	0.38J	300
18" - 24"	0.67J	300

Sample Location: 32 Scarey Ln.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	1.3	300
6" - 12"	0.9	300
12" - 18"	0.35J	300
18" - 24"	0.85	300

Sample Location: Bennington College Adj to Garden

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	2.9	300
6" - 12"	4.9	300
12" - 18"	2.8	300
18" - 24"	1.8	300

Sample Location: Bennington College Jennings Meadow Trail

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	2.1	300
6" - 12"	2.8	300
12" - 18"	2.6	300
18" - 24"	2.3	300

Sample Location: 29 Lever Rd.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	1.4	300
6" - 12"	1.1	300
12" - 18"	1.1	300
18" - 24"	2.5	300

Sample Location: 492 Water St. Paran Creek Access

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	ND	300
6" - 12"	1.3	300
12" - 18"	ND	300
18" - 24"	0.65J	300

Sample Location: 25 Asa Way

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.97	300
6" - 12"	1.2	300
12" - 18"	8.2	300
18" - 24"	7.7	300

Sample Location: Bennington College Adj to Soccer Field

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	3.6	300
6" - 12"	3.6	300
12" - 18"	3	300
18" - 24"	1.7	300

Sample Location: 26 Scarey Ln.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	1.1	300
6" - 12"	0.33J	300
12" - 18"	NS	300
18" - 24"	NS	300

Sample Location: Pembroke Stockpile No. 1

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	5.6	300
6" - 12"	NS	300
12" - 18"	NS	300
18" - 24"	NS	300

Sample Location: Vacant Lot Asa Way

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	2.9	300
6" - 12"	4.1	300
12" - 18"	2	300
18" - 24"	1.2	300

Sample Location: 980 Park St.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	2.7	300
6" - 12"	1.5	300
12" - 18"	1.5	300
18" - 24"	NS	300

Sample Location: 1030 Water St. - BD East

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	20	300
6" - 12"	6.1	300
12" - 18"	4.8	300
18" - 24"	13	300

Sample Location: 22 Asa Way

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.82	300
6" - 12"	0.39J	300
12" - 18"	NS	300
18" - 24"	NS	300

Sample Location: Pembroke Stockpile No. 2

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	1.5	300
6" - 12"	NS	300
12" - 18"	NS	300
18" - 24"	NS	300

Sample Location: 1030 Water St. - Vent W

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	20	300
6" - 12"	11	300
12" - 18"	10	300
18" - 24"	12	300

Sample Location: 26 Susan Taylor Ln

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.63J	300
6" - 12"	0.86	300
12" - 18"	1.5	300
18" - 24"	1.6	300

Sample Location: 1030 Water St. - West Side

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	11	300
6" - 12"	3.6	300
12" - 18"	3.1	300
18" - 24"	4.1	300

Sample Location: 16 Wilkie Way

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	2.9	300
6" - 12"	3.3	300
12" - 18"	4.6	300
18" - 24"	5.7	300

Sample Location: 246 Harrington Rd. WWTP Sewer Sludge

Sample Depth	PFOA (ng/l)	VT Soil Screening Value (ng/l)
0" - 6"	350	
6" - 12"	NS	
12" - 18"	NS	
18" - 24"	NS	

Sample Location: 8 Polygraphic Ln

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	4.2	300
6" - 12"	1.9	300
12" - 18"	2.1	300
18" - 24"	2.4	300

Sample Location: 37 Susan Taylor Ln Garden

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	8.2	300
6" - 12"	7.3	300
12" - 18"	5.2	300
18" - 24"	2.9	300

Sample Location: Pembroke Garden

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.75	300
6" - 12"	1.8	300
12" - 18"	1.9	300
18" - 24"	2	300

Sample Location: 15 Polygraphic Ln

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.84	300
6" - 12"	1.1	300
12" - 18"	NS	300
18" - 24"	NS	300

Sample Location: 10 Scarey Ln.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	4.1	300
6" - 12"	1.4	300
12" - 18"	2.3	300
18" - 24"	3.6	300

Sample Location: 37 Susan Taylor Ln

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	5.8	300
6" - 12"	3.5	300
12" - 18"	2.5	300
18" - 24"	NS	300

Sample Location: 59 River Rd. Playground Slide

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	ND	300
6" - 12"	ND	300
12" - 18"	NS	300
18" - 24"	NS	300

Sample Location: 15 Scarey Ln.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	1.5	300
6" - 12"	1.2	300
12" - 18"	NS	300
18" - 24"	NS	300

Sample Location: 59 River Rd. Playground Roadside

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.74J	300
6" - 12"	0.86	300
12" - 18"	0.66J	300
18" - 24"	ND	300

Sample Location: 1030 Water St. - River

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	9.1	300
6" - 12"	2.7	300
12" - 18"	4.2	300
18" - 24"	4.9	300

Sample Location: 180 River St.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	2	300
6" - 12"	0.66J	300
12" - 18"	ND	300
18" - 24"	ND	300

Sample Location: 5 Scarey Ln.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	6.2	300
6" - 12"	5.9	300
12" - 18"	7.1	300
18" - 24"	8.2	300

Sample Location: 2009 N. Bennington Rd.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	4.2	300
6" - 12"	4.9	300
12" - 18"	45	300
18" - 24"	NS	300

Sample Location: Murphy Rd. Farmland (no street #)

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.68	300
6" - 12"	3.9	300
12" - 18"	12	300
18" - 24"	8.7	300

Sample Location: 765 Murphy Rd.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	6.4	300
6" - 12"	6.3	300
12" - 18"	2.6	300
18" - 24"	1.6	300

Sample Location: 6 Royal St.

Sample Depth	PFOA (ng/g)	VT Soil Screening Value (ng/g)
0" - 6"	0.82	300
6" - 12"	ND	300
12" - 18"	ND	300
18" - 24"	0.55J	300

N
W E
S

0 250 500 1,000 FT

1 inch = 500 feet

Project Number: 16.6131
Data Source: vcgi.vermont.gov
Projection: State Plane NAD83 Vermont
Date: July 20, 2016
File: BennSS_Figure3_PFOAResults24x36.mxd
GIS: C Secor

DRAFT

Legend

- Soil Samples (using Garmin GPS)
- Former Chemfab Location
- Village of North Bennington
- Tax Parcels (2008)

Map Note: The locations and features depicted on this map are approximate and do not represent a field survey.

Figure 3:PFOA Sample Results

Village of North Bennington **Bennington County, Vermont**

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FOUNDED IN 1910

APPENDIX B
TABLES

TABLE 1
Summary of Laboratory Results - PFOA

TABLE 1: Summary of Laboratory Results
Surface Soil Sampling - PFOA Detections
North Bennington, VT
March and May 2016

Sample Location	Sample Date	0 - 6" bgs (ng/g)	6" - 12" bgs (ng/g)	12" - 18" bgs (ng/g)	18" - 24" bgs (ng/g)	VT PFOA Soil Screening Value* (ng/g)
22 Asa Way	3/17/2016	0.82	0.39J	NS	NS	300
25 Asa Way	3/16/2016	0.97	1.2	8.2	7.7	300
Vacant Lot Asa Way	3/21/2016	2.9	4.1	2	1.2	300
1 College Drive: Bennington College						
Bennington College Garden	3/18/2016	1.1	0.65J	0.38J	0.67J	300
Bennington College Adjacent to Garden	3/18/2016	2.9	4.9	2.8	1.8	300
Bennington College Adjacent to Soccer Field	3/18/2016	3.6	3.6	3	1.7	300
Bennington College Jennings Meadow Trail	3/18/2016	2.1	2.8	2.6	2.3	300
132 Harrington Road: Pembroke Nursery						
Stockpile 1 - Topsoil Composite	3/22/2016	5.6	NS	NS	NS	300
Stockpile 2 - Topsoil Composite	3/22/2016	1.5	NS	NS	NS	300
Garden	3/22/2016	0.75	1.8	1.9	2	300
246/248 Harrington Road WWTP Sewer Sludge	3/22/2016	350 ng/L	NS	NS	NS	
1682 Harrington Road	5/11/2016	2	2.6	2.3	1.3	300
29 Lever Road	3/22/2016	1.4	1.1	1.1	2.5	300
500 McCulough Rd. - Peace Farm	5/11/2016	3	3.4	5.1	6.5	300
765 Murphy Road	3/17/2016	6.4	6.3	2.6	1.6	300
Murphy Road Farmland (No Street Address)	5/11/2016	0.68	3.9	12	8.7	300
2009 N. Bennington Road	3/22/2016	4.2	4.9	45	NS	300
Paran Lake - Fishing Access Area	3/23/2016	2	1.9	4.1	4.6	300
980 Park Street	3/21/2016	2.7	1.5	1.5	NS	300
8 Polygraphic Lane	3/21/2016	4.2	1.9	2.1	2.4	300
15 Polygraphic Lane	3/21/2016	0.84	1.1	NS	NS	300
59 River Road Playground Roadside	3/16/2016	0.74J	0.86	0.66J	ND	300
59 River Road Playground Slide	3/16/2016	ND	ND	NS	NS	300
180 River Street	3/23/2016	2	0.66J	ND	ND	300
6 Royal Street	3/17/2016	0.82	ND	ND	0.55J	300
5 Scarey Lane	3/17/2016	6.2	5.9	7.1	8.2	300
10 Scarey Lane	3/21/2016	4.1	1.4	2.3	3.6	300
15 Scarey Lane	3/17/2016	1.5	1.2	NS	NS	300
26 Scarey Lane	3/21/2016	1.1	0.33J	NS	NS	300
32 Scarey Lane	3/17/2016	1.3	0.9	0.35J	0.85	300
9 School Street: Village School						
Small Playground	3/18/2016	ND	ND	ND	ND	300
Large Playground	3/18/2016	ND	ND	ND	ND	300
Maple Tree	3/22/2016	1.3	3.1	2.9	NS	300
Northeast Parking Lot	3/22/2016	0.88	ND	0.75	NS	300
26 Susan Taylor Lane	3/21/2016	0.63J	0.86	1.5	1.6	300
37 Susan Taylor Lane	3/16/2016	5.8	3.5	2.5	NS	300
37 Susan Taylor Lane Garden	3/16/2016	8.2	7.3	5.2	2.9	300
492 Water Street - Paran Creek Access	3/24/2016	ND	1.3	ND	0.65J	300
1030 Water Street - Former Chemfab						
Riverside	3/23/2016	9.1	2.7	4.2	4.9	300
West Side	3/23/2016	11	3.6	3.1	4.1	300
BD East	3/23/2016	20	6.1	4.8	13	300
Vent W	3/24/2016	20	11	10	12	300
16 Wilkie Way	3/23/2016	2.9	3.3	4.6	5.7	300

PFOA - Perfluorooctanoic acid
units - ng/g - nanograms per gram or parts per billion
ng/L - nanograms per Liter or parts per trillion
ND - denotes Not Detected
NS - denotes Not Sampled due to auger refusal at 3 locations (2nd and 3rd attempts made adjacent to intial auger hole)
J - denotes Estimated Value
bgs - denotes below ground surface
* VT PFOA Soil Screening Value = 0.3 mg/kg = 300 ng/g

TABLE 2
Shallow Soil Sample Analytical Results

C.T. Male Associates

SHALLOW SOIL SAMPLING
Vacant Lot, Asa Way, North Bennington, VT 05257
Date Sampled: March 21, 2016

Parameter	Sample ID: Asa Way Vac Lot LAB Sample ID: 8297354 Sample Depth: 0 - 6"		Sample ID: Asa Way Vac Lot LAB Sample ID: 8297355 Sample Depth: 6" - 12"		Sample ID: Asa Way Vac Lot LAB Sample ID: 8297356 Sample Depth: 12" - 18"		Sample ID: Asa Way Vac Lot LAB Sample ID: 8297357 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1.20	J	0.85	U	0.81	U	0.83	U	NV
Perfluorobutanesulfonate (ng/g)	0.67	U	0.61	U	0.58	U	0.59	U	NV
Perfluorodecanoic acid (ng/g)	1.00		0.24	U	0.23	U	0.24	U	NV
Perfluorododecanoic acid (ng/g)	0.54	U	0.48	U	0.47	U	0.47	U	NV
Perfluoroheptanoic acid (ng/g)	0.66	J	0.59	J	0.35	U	0.35	U	NV
Perfluorohexanesulfonate (ng/g)	0.67	U	0.61	U	0.58	U	0.59	U	NV
Perfluorohexanoic acid (ng/g)	0.63		0.94		0.65		0.24	U	NV
Perfluorononanoic acid (ng/g)	0.63		0.24	U	0.23	U	0.24	U	NV
Perfluorooctanoic acid (ng/g)	2.90		4.1		2		1.2		300
Perfluorotetradecanoic acid (ng/g)	0.40	U	0.36	U	0.35	U	0.35	U	NV
Perfluorotridecanoic acid (ng/g)	0.80	U	0.73	U	0.7	U	0.71	U	NV
Perfluoroundecanoic acid (ng/g)	0.44	J	0.36	U	0.35	U	0.35	U	NV
TOC (mg/kg)	6,880		4,850		2,040		819		NV
Moisture Content (%)	25.3		17.5		14.1		15.2		NV
Number of PFCs Detected	7		3		2		1		
Total PFCs (includes PFOA)	5.6		5.63		2.65		1.2		
Total PFOA	2.9		4.1		2		1.2		

AsaWayVacLot 42.91655039 -73.24282550

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B-Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
22 Asa Way, North Bennington, VT 05257
Date Sampled: March 17, 2016

Parameter	Sample ID: 22 Asa Way LAB Sample ID: 8294113 Sample Depth: 0 - 6"		Sample ID: 22 Asa Way LAB Sample ID: 8294114 Sample Depth: 6" - 12"		Sample ID: LAB Sample ID: Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.89	U	0.78	U	NS		NS		NV
Perfluorobutanesulfonate (ng/g)	0.64	U	0.55	U	NS		NS		NV
Perfluorodecanoic acid (ng/g)	0.6		0.22	U	NS		NS		NV
Perfluorododecanoic acid (ng/g)	0.51	U	0.44	U	NS		NS		NV
Perfluoroheptanoic acid (ng/g)	0.38	U	0.33	U	NS		NS		NV
Perfluorohexanesulfonate (ng/g)	0.64	U	0.55	U	NS		NS		NV
Perfluorohexanoic acid (ng/g)	0.25	U	0.22	U	NS		NS		NV
Perfluorononanoic acid (ng/g)	0.25	U	0.22	U	NS		NS		NV
Perfluorooctanoic acid (ng/g)	0.82		0.39	J	NS		NS		300
Perfluorotetradecanoic acid (ng/g)	0.38	U	0.33	U	NS		NS		NV
Perfluorotridecanoic acid (ng/g)	0.76	U	0.67	U	NS		NS		NV
Perfluoroundecanoic acid (ng/g)	0.38	U	0.33	U	NS		NS		NV
TOC (mg/kg)	15,100		2,520		NS		NS		NV
Moisture Content (%)	21.4		9.8		NS		NS		NV
Number of PFCs Detected	2		1		NS		NS		
Total PFCs (includes PFOA)	1.4		0.39		NS		NS		
Total PFOA	0.8		0.39		NS		NS		

22AsaWay 42.91621939 -73.24400986

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B-Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
25 Asa Way, North Bennington, VT 05257
Date Sampled: March 16, 2016

Parameter	Sample ID: 25 Asa Way LAB Sample ID: 8291924 Sample Depth: 0 - 6"		Sample ID: 25 Asa Way LAB Sample ID: 8291925 Sample Depth: 6" - 12"		Sample ID: 25 Asa Way LAB Sample ID: 8291926 Sample Depth: 12" - 18"		Sample ID: 25 Asa Way LAB Sample ID: 8291927 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.93	U	0.86	U	1.1	J	0.84	U	NV
Perfluorobutanesulfonate (ng/g)	0.66	U	0.62	U	0.64	U	0.6	U	NV
Perfluorodecanoic acid (ng/g)	0.53	J	0.25	U	1.3		0.61		NV
Perfluorododecanoic acid (ng/g)	0.66	U	0.62	U	0.65	J	0.6	U	NV
Perfluoroheptanoic acid (ng/g)	0.4	U	0.37	U	0.38	U	0.6	J	NV
Perfluorohexanesulfonate (ng/g)	0.66	U	0.62	U	0.64	U	0.6	U	NV
Perfluorohexanoic acid (ng/g)	0.27	U	0.25	U	0.45	J	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.27	U	0.25	U	0.63		0.65		NV
Perfluorooctanoic acid (ng/g)	0.97		1.2		8.2		7.7		300
Perfluorotetradecanoic acid (ng/g)	0.53	U	0.49	U	0.51	U	0.48	U	NV
Perfluorotridecanoic acid (ng/g)	0.8	U	0.74	U	0.76	U	0.72	U	NV
Perfluoroundecanoic acid (ng/g)	0.4	U	0.37	U	0.53	J	0.36	U	NV
TOC (mg/kg)	13,700		8,380		24,600		8,870		NV
Moisture Content (%)	24.8		18.7		21.3		17.0		NV
Number of PFCs Detected	2		1		7		4		
Total PFCs (includes PFOA)	1.5		1.2		11.76		8.96		
Total PFOA	0.97		1.2		8.2		7.7		

25 Asa Way 42.91703076 -73.24509415

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B-Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Adjacent to Garden, Bennington College, 1 College Drive, Bennington, VT 05201
Date Sampled: March 18, 2016

Parameter	Sample ID: B. College Adj to Garden LAB Sample ID: 8294178 Sample Depth: 0 - 6"		Sample ID: B. College Adj to Garden LAB Sample ID: 8294179 Sample Depth: 6" - 12"		Sample ID: B. College Adj to Garden LAB Sample ID: 8294181 Sample Depth: 12" - 18"		Sample ID: B. College Adj to Garden LAB Sample ID: 8294185 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	2.8		0.89	U	0.84	U	0.83	U	NV
Perfluorobutanesulfonate (ng/g)	2.3		0.63	U	0.6	U	0.59	U	NV
Perfluorodecanoic acid (ng/g)	0.32	J	0.25	U	0.24	U	0.24	U	NV
Perfluorododecanoic acid (ng/g)	0.55	U	0.51	U	0.48	U	0.48	U	NV
Perfluoroheptanoic acid (ng/g)	0.41	U	0.38	U	0.36	U	0.36	U	NV
Perfluorohexanesulfonate (ng/g)	0.68	U	0.63	U	0.6	U	0.59	U	NV
Perfluorohexanoic acid (ng/g)	0.27	U	0.25	U	0.24	U	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.27	U	0.25	U	0.24	U	0.24	U	NV
Perfluorooctanoic acid (ng/g)	2.9		4.9		2.8		1.8		300
Perfluorotetradecanoic acid (ng/g)	0.41	U	0.38	U	0.36	U	0.36	U	NV
Perfluorotridecanoic acid (ng/g)	0.82	U	0.76	U	0.72	U	0.71	U	NV
Perfluoroundecanoic acid (ng/g)	0.41	U	0.38	U	0.36	U	0.36	U	NV
TOC (mg/kg)	19,000		15,400		5,750		2,690		NV
Moisture Content (%)	26.7		21.1		16.7		15.8		NV
Number of PFCs Detected	4		1		1		1		
Total PFCs (includes PFOA)	8.32		4.9		2.8		1.8		
Total PFOA	2.9		4.9		2.8		1.8		

BennColAdjGar 42.91973501 -73.24270765

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B-Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Adjacent to Soccer Field, Bennington College, 1 College Drive, Bennington, VT 05201
Date Sampled: March 18, 2016

Parameter	Sample ID: B. College Adj to Soccer Field LAB Sample ID: 8294186 Sample Depth: 0 - 6"		Sample ID: B. College Adj to Soccer Field LAB Sample ID: 8294187 Sample Depth: 6" - 12"		Sample ID: B. College Adj to Soccer Field LAB Sample ID: 8294188 Sample Depth: 12" - 18"		Sample ID: B. College Adj to Soccer Field LAB Sample ID: 8294189 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.89	U	0.85	U	0.83	U	0.81	U	NV
Perfluorobutanesulfonate (ng/g)	0.64	U	0.6	U	0.59	U	0.58	U	NV
Perfluorodecanoic acid (ng/g)	0.35	J	0.24	U	0.24	U	0.23	U	NV
Perfluorododecanoic acid (ng/g)	0.51	U	0.48	U	0.47	U	0.46	U	NV
Perfluoroheptanoic acid (ng/g)	0.38	U	0.36	U	0.35	U	0.35	U	NV
Perfluorohexanesulfonate (ng/g)	0.64	U	0.6	U	0.59	U	0.58	U	NV
Perfluorohexanoic acid (ng/g)	0.25	U	0.52		0.42	J	0.23	U	NV
Perfluorononanoic acid (ng/g)	0.25	U	0.24	U	0.24	U	0.23	U	NV
Perfluorooctanoic acid (ng/g)	3.6		3.6		3.0		1.7		300
Perfluorotetradecanoic acid (ng/g)	0.38	U	0.36	U	0.35	U	0.35	U	NV
Perfluorotridecanoic acid (ng/g)	0.76	U	0.72	U	0.71	U	0.69	U	NV
Perfluoroundecanoic acid (ng/g)	0.38	U	0.36	U	0.35	U	0.35	U	NV
TOC (mg/kg)	24,700		8,520		6,520		2,270		NV
Moisture Content (%)	21.5		17.2		15.2		13.6		NV
Number of PFCs Detected	2		2		2		1		
Total PFCs (includes PFOA)	3.95		4.12		3.42		1.7		
Total PFOA	3.6		3.6		3.0		1.7		

BenColAdjSoccF 42.91794891 -73.24289524

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B-Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Garden, Bennington College, 1 College Drive, Bennington, VT 05201
Date Sampled: March 18, 2016

Parameter	Sample ID: Bennington College Garden LAB Sample ID: 8294171 Sample Depth: 0 - 6"		Sample ID: Bennington College Garden LAB Sample ID: 8294172 Sample Depth: 6" - 12"		Sample ID: Bennington College Garden LAB Sample ID: 8294173 Sample Depth: 12" - 18"		Sample ID: Bennington College Garden LAB Sample ID: 8294174 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.89	U	0.83	U	0.81	U	0.84	U	NV
Perfluorobutanesulfonate (ng/g)	2.0	J	0.59	U	0.58	U	0.6	U	NV
Perfluorodecanoic acid (ng/g)	0.32	J	0.24	U	0.23	U	0.24	U	NV
Perfluorododecanoic acid (ng/g)	0.51	U	0.47	U	0.46	U	0.48	U	NV
Perfluoroheptanoic acid (ng/g)	0.38	U	0.36	U	0.35	U	0.36	U	NV
Perfluorohexanesulfonate (ng/g)	0.63	U	0.59	U	0.58	U	0.6	U	NV
Perfluorohexanoic acid (ng/g)	0.25	U	0.24	U	0.23	U	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.25	U	0.24	U	0.23	U	0.24	U	NV
Perfluorooctanoic acid (ng/g)	1.1		0.65	J	0.38	J	0.67	J	300
Perfluorotetradecanoic acid (ng/g)	0.38	U	0.36	U	0.35	U	0.36	U	NV
Perfluorotridecanoic acid (ng/g)	0.76	U	0.71	U	0.7	U	0.72	U	NV
Perfluoroundecanoic acid (ng/g)	0.38	U	0.36	U	0.35	U	0.36	U	NV
TOC (mg/kg)	12,900		7,660		2,490		7,630		NV
Moisture Content (%)	21.0		15.6		13.9		16.3		NV
Number of PFCs Detected	3		1		1		1		
Total PFCs (includes PFOA)	3.42		0.65		0.38		0.67		
Total PFOA	1.1		0.65		0.38		0.67		

BenncollegeGar 42.92002360 -73.24254764

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B-Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Jennings Meadow Trail, Bennington College, 1 College Drive, Bennington, VT 05201
Date Sampled: March 18, 2016

Parameter	Sample ID: Jennings Meadow Trail LAB Sample ID: 8294190 Sample Depth: 0 - 6"		Sample ID: Jennings Meadow Trail LAB Sample ID: 8294191 Sample Depth: 6" - 12"		Sample ID: Jennings Meadow Trail LAB Sample ID: 8294192 Sample Depth: 12" - 18"		Sample ID: Jennings Meadow Trail LAB Sample ID: 8294193 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.96	U	0.89	U	0.86	U	0.87	U	NV
Perfluorobutanesulfonate (ng/g)	0.68	U	0.64	U	0.62	U	0.62	U	NV
Perfluorodecanoic acid (ng/g)	0.27	U	0.25	U	0.25	U	0.25	U	NV
Perfluorododecanoic acid (ng/g)	0.55	U	0.51	U	0.49	U	0.5	U	NV
Perfluoroheptanoic acid (ng/g)	0.41	U	0.38	U	0.37	U	0.37	U	NV
Perfluorohexanesulfonate (ng/g)	0.68	U	0.64	U	0.62	U	0.62	U	NV
Perfluorohexanoic acid (ng/g)	0.27	U	0.25	U	0.25	U	0.37	J	NV
Perfluorononanoic acid (ng/g)	0.27	U	0.25	U	0.25	U	0.25	U	NV
Perfluorooctanoic acid (ng/g)	2.1		2.8		2.6		2.3		300
Perfluorotetradecanoic acid (ng/g)	0.41	U	0.38	U	0.37	U	0.37	U	NV
Perfluorotridecanoic acid (ng/g)	0.82	U	0.76	U	0.74	U	0.75	U	NV
Perfluoroundecanoic acid (ng/g)	0.41	U	0.38	U	0.37	U	0.37	U	NV
TOC (mg/kg)	17,300		10,700		6,030		4,290		NV
Moisture Content (%)	26.8		21.3		18.9		19.6		NV
Number of PFCs Detected	1		1		1		2		
Total PFCs (includes PFOA)	2.1		2.8		2.6		2.67		
Total PFOA	2.1		2.8		2.6		2.3		

JennMdwTrail 42.92173359 -73.23730057

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B-Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Along River, Former ChemFab, 1030 Water Street, North Bennington, VT 05257
Date Sampled: March 23, 2016

Parameter	Sample ID: Chemfab Along River LAB Sample ID: 8301016 Sample Depth: 0 - 6"		Sample ID: Chemfab Along River LAB Sample ID: 8301017 Sample Depth: 6" - 12"		Sample ID: Chemfab Along River LAB Sample ID: 8301018 Sample Depth: 12" - 18"		Sample ID: Chemfab Along River LAB Sample ID: 8301019 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.79	U	1 (1.7U)	JB	1.2 (1.8U)	JB	1.3 (1.8U)	JB	NV
Perfluorobutanesulfonate (ng/g)	0.56	U	0.54	U	0.56	U	0.55	U	NV
Perfluorodecanoic acid (ng/g)	1.9		2.1		4.5		3.6		NV
Perfluorododecanoic acid (ng/g)	3.4		0.74	J	0.9		0.51	J	NV
Perfluoroheptanoic acid (ng/g)	0.34	U	0.33	U	0.36	J	0.33	U	NV
Perfluorohexanesulfonate (ng/g)	0.56	U	0.54	U	0.56	U	0.55	U	NV
Perfluorohexanoic acid (ng/g)	0.23	U	0.22	U	0.22	U	0.22	U	NV
Perfluorononanoic acid (ng/g)	0.24	J	0.22	U	0.22	U	0.26	J	NV
Perfluorooctanoic acid (ng/g)	9.1		2.7		4.2		4.9		300
Perfluorotetradecanoic acid (ng/g)	1.4		0.33	U	0.34	U	0.33	U	NV
Perfluorotridecanoic acid (ng/g)	1.5		0.65	U	0.67	U	0.66	U	NV
Perfluoroundecanoic acid (ng/g)	3.2		0.63	J	0.9		0.33	U	NV
TOC (mg/kg)	17,500		5,400		10,100		3,870		NV
Moisture Content (%)	11.4		8.2		10.9		8.8		NV
Number of PFCs Detected	7		4		5		4		
Total PFCs (includes PFOA)	20.74		6.17		10.86		9.27		
Total PFOA	9.1		2.7		4.2		4.9		

ChemFabRiver 42.91421377 -73.24593334

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Blowdown East, Former ChemFab, 1030 Water Street, North Bennington, VT 05257
Date Sampled: March 23, 2016

Parameter	Sample ID: Chemfab Blowdown East LAB Sample ID: 8301039 Sample Depth: 0 - 6"		Sample ID: Chemfab Blowdown East LAB Sample ID: 8301040 Sample Depth: 6" - 12"		Sample ID: Chemfab Blowdown East LAB Sample ID: 8301041 Sample Depth: 12" - 18"		Sample ID: Chemfab Blowdown East LAB Sample ID: 8301042 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.82	U	0.8	U	0.78	U	0.79	U	NV
Perfluorobutanesulfonate (ng/g)	0.58	U	0.57	U	0.56	U	0.57	U	NV
Perfluorodecanoic acid (ng/g)	1.3		0.41	J	0.27	J	0.54		NV
Perfluorododecanoic acid (ng/g)	5		11		14		15		NV
Perfluoroheptanoic acid (ng/g)	0.35	U	0.34	U	0.34	U	0.34	U	NV
Perfluorohexanesulfonate (ng/g)	0.58	U	0.57	U	0.56	U	0.57	U	NV
Perfluorohexanoic acid (ng/g)	0.23	U	0.23	U	0.22	U	0.23	U	NV
Perfluorononanoic acid (ng/g)	0.23	U	0.23	U	0.22	U	0.23	U	NV
Perfluorooctanoic acid (ng/g)	20		6.1		4.8		13		300
Perfluorotetradecanoic acid (ng/g)	25		12		3.7		2.2		NV
Perfluorotridecanoic acid (ng/g)	15		15		15		6.4		NV
Perfluoroundecanoic acid (ng/g)	1.1		0.49	J	0.34	U	0.79		NV
TOC (mg/kg)	7,090		793		974		3,060		NV
Moisture Content (%)	14.3		12.4		10.6		11.6		NV
Number of PFCs Detected	6		6		5		6		
Total PFCs (includes PFOA)	67.4		45.0		37.77		37.93		
Total PFOA	20.0		6.1		4.8		13.0		

ChemfabBDEast 42.91499706 -73.24572128

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Western Vent, Former ChemFab, 1030 Water Street, North Bennington, VT 05257
Date Sampled: March 24, 2016

Parameter	Sample ID: Chemfab Vent W LAB Sample ID: 8303038 Sample Depth: 0 - 6"		Sample ID: Chemfab Vent W LAB Sample ID: 8303039 Sample Depth: 6" - 12"		Sample ID: Chemfab Vent W LAB Sample ID: 8303040 Sample Depth: 12" - 18"		Sample ID: Chemfab Vent W LAB Sample ID: 8303041 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.82	U	0.84	U	0.83	U	0.86	U	NV
Perfluorobutanesulfonate (ng/g)	0.59	U	0.6	U	0.59	U	0.61	U	NV
Perfluorodecanoic acid (ng/g)	0.89		1.1		1.3		1		NV
Perfluorododecanoic acid (ng/g)	7		15		31		42		NV
Perfluoroheptanoic acid (ng/g)	0.59	J	0.51	J	0.36	J	0.43	J	NV
Perfluorohexanesulfonate (ng/g)	0.59	U	0.6	U	0.59	U	0.61	U	NV
Perfluorohexanoic acid (ng/g)	0.32	J	0.26	J	0.24	U	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.24	U	0.24	J	0.24	U	0.24	U	NV
Perfluorooctanoic acid (ng/g)	20		11		10		12		300
Perfluorotetradecanoic acid (ng/g)	49		23		6.9		5.7		NV
Perfluorotridecanoic acid (ng/g)	8.2		7.1		5.7		5		NV
Perfluoroundecanoic acid (ng/g)	0.86		2.9		9.4		3.9		NV
TOC (mg/kg)	10,400		12,100		14,500		16,400		NV
Moisture Content (%)	14.9		17.1		15.9		18.2		NV
Number of PFCs Detected	8		9		7		7		
Total PFCs (includes PFOA)	86		61.11		64.66		70.03		
Total PFOA	20		11		10		12		

ChemfabVentW 42.91504249 -73.24642762

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
West Side, Former ChemFab, 1030 Water Street, North Bennington, VT 05257
Date Sampled: March 23, 2016

Parameter	Sample ID: Chemfab W Side LAB Sample ID: 8301020 Sample Depth: 0 - 6"		Sample ID: Chemfab W Side LAB Sample ID: 8301021 Sample Depth: 6" - 12"		Sample ID: Chemfab W Side LAB Sample ID: 8301022 Sample Depth: 12" - 18"		Sample ID: Chemfab W Side LAB Sample ID: 8301023 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.84	U	0.78	U	0.81	U	0.88	U	NV
Perfluorobutanesulfonate (ng/g)	0.6	U	0.55	U	0.58	U	0.63	U	NV
Perfluorodecanoic acid (ng/g)	0.45	J	0.24	J	0.23	U	0.25	U	NV
Perfluorododecanoic acid (ng/g)	4.4		3.9		13		3.2		NV
Perfluoroheptanoic acid (ng/g)	0.36	U	0.33	U	0.35	U	0.38	U	NV
Perfluorohexanesulfonate (ng/g)	0.6	U	0.55	U	0.58	U	0.63	U	NV
Perfluorohexanoic acid (ng/g)	0.24	U	0.22	U	0.23	U	0.25	U	NV
Perfluorononanoic acid (ng/g)	0.24	U	0.22	U	0.23	U	0.25	U	NV
Perfluorooctanoic acid (ng/g)	11		3.6		3.1		4.1		300
Perfluorotetradecanoic acid (ng/g)	17		4.8		1.6		2.3		NV
Perfluorotridecanoic acid (ng/g)	7.4		7.3		4.2		2.7		NV
Perfluoroundecanoic acid (ng/g)	0.36	U	0.33	U	0.35	U	4.7		NV
TOC (mg/kg)	13,100		2,010		2,210		1,990		NV
Moisture Content (%)	16.6		9.9		13.2		20.4		NV
Number of PFCs Detected	5		5		4		5		
Total PFCs (includes PFOA)	40.25		19.84		21.9		17		
Total PFOA	11		4		3		4		

ChemfabWSide 42.91437588 -73.24661546

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

SHALLOW SOIL SAMPLING
1682 Harrington Road, Bennington, VT 05257
Date Sampled: May 11, 2016

Parameter	Sample ID: 1682 Harrington Rd LAB Sample ID: 8377455 Sample Depth: 0 - 6"		Sample ID: 1682 Harrington Rd LAB Sample ID: 8377456 Sample Depth: 6" - 12"		Sample ID: 1682 Harrington Rd LAB Sample ID: 8377457 Sample Depth: 12" - 18"		Sample ID: 1682 Harrington Rd LAB Sample ID: 8377460 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.92	U	0.88	U	0.86	U	0.85	U	NV
Perfluorobutanesulfonate (ng/g)	0.66	U	0.63	U	0.62	U	0.61	U	NV
Perfluorodecanoic acid (ng/g)	0.26	U	0.25	U	0.25	U	0.24	U	NV
Perfluorododecanoic acid (ng/g)	0.53	U	0.5	U	0.49	U	0.49	U	NV
Perfluoroheptanoic acid (ng/g)	0.4	U	0.38	U	0.37	U	0.36	U	NV
Perfluorohexanesulfonate (ng/g)	0.66	U	0.63	U	0.62	U	0.61	U	NV
Perfluorohexanoic acid (ng/g)	0.26	U	0.25	U	0.25	U	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.26	U	0.25	U	0.25	U	0.24	U	NV
Perfluorooctanoic acid (ng/g)	2		2.6		2.3		1.3		300
Perfluorotetradecanoic acid (ng/g)	0.4	U	0.38	U	0.37	U	0.36	U	NV
Perfluorotridecanoic acid (ng/g)	0.79	U	0.76	U	0.74	U	0.73	U	NV
Perfluoroundecanoic acid (ng/g)	0.4	U	0.38	U	0.37	U	0.36	U	NV
TOC (mg/kg)	14,600		8,240		3,630		1,420		NV
Moisture Content (%)	24.2		20.6		18.8		17.7		NV
Number of PFCs Detected	1		1		1		1		
Total PFCs (includes PFOA)	2.00		2.60		2.3		1.30		
Total PFOA	2.00		2.60		2.30		1.30		

1682 Harrington Road 42.93275800 -73.26442

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Fishing Access Area, Lake Paran, North Bennington, VT 05257
Date Sampled: March 23, 2016

Parameter	Sample ID: Lake Paran LAB Sample ID: 8301024 Sample Depth: 0 - 6"		Sample ID: Lake Paran LAB Sample ID: 8301025 Sample Depth: 6" - 12"		Sample ID: Lake Paran LAB Sample ID: 8301026 Sample Depth: 12" - 18"		Sample ID: Lake Paran LAB Sample ID: 8301027 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1.7 (2.2U)	JB	1.3 (2.1U)	JB	1.3 (2.1U)	JB	0.84	U	NV
Perfluorobutanesulfonate (ng/g)	0.69	U	0.65	U	0.67	U	0.6	U	NV
Perfluorodecanoic acid (ng/g)	0.28	U	0.26	U	0.27	U	0.24	U	NV
Perfluorododecanoic acid (ng/g)	0.62	J	0.52	U	0.53	U	0.48	U	NV
Perfluoroheptanoic acid (ng/g)	0.41	U	0.51	J	0.4	U	0.36	U	NV
Perfluorohexanesulfonate (ng/g)	0.69	U	0.65	U	0.67	U	0.6	U	NV
Perfluorohexanoic acid (ng/g)	0.28	U	0.54		0.29	J	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.28	U	0.26	U	0.27	U	0.24	U	NV
Perfluorooctanoic acid (ng/g)	2		1.9		4.1		4.6		300
Perfluorotetradecanoic acid (ng/g)	0.41	U	0.39	U	0.4	U	0.36	U	NV
Perfluorotridecanoic acid (ng/g)	0.83	U	0.78	U	0.8	U	0.72	U	NV
Perfluoroundecanoic acid (ng/g)	0.41	U	0.39	U	0.4	U	0.36	U	NV
TOC (mg/kg)	38,900		15,100		17,900		14,500		NV
Moisture Content (%)	27.7		22.9		25.1		16.7		NV
Number of PFCs Detected	2		3		2		1		
Total PFCs (includes PFOA)	2.62		2.95		4.39		4.6		
Total PFOA	2		1.9		4.1		4.6		

LakeParan 42.93215314 -73.23480536

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
29 Lever Road, North Bennington, VT 05257
Date Sampled: March 22, 2016

Parameter	Sample ID: 29 Lever St LAB Sample ID: 8298602 Sample Depth: 0 - 6"		Sample ID: 29 Lever St LAB Sample ID: 8298603 Sample Depth: 6" - 12"		Sample ID: 29 Lever St LAB Sample ID: 8298604 Sample Depth: 12" - 18"		Sample ID: 29 Lever St LAB Sample ID: 8298605 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1	J	0.89	U	0.89	U	0.88	U	NV
Perfluorobutanesulfonate (ng/g)	0.64	U	0.63	U	0.64	U	0.63	U	NV
Perfluorodecanoic acid (ng/g)	0.57		0.25	U	0.25	U	0.25	U	NV
Perfluorododecanoic acid (ng/g)	0.51	U	0.51	U	0.51	U	0.5	U	NV
Perfluoroheptanoic acid (ng/g)	0.38	U	0.38	U	0.38	U	0.38	U	NV
Perfluorohexanesulfonate (ng/g)	0.64	U	0.63	U	0.64	U	0.63	U	NV
Perfluorohexanoic acid (ng/g)	0.26	U	0.25	U	0.25	U	0.25	U	NV
Perfluorononanoic acid (ng/g)	0.61		0.42	J	0.25	U	0.25	U	NV
Perfluorooctanoic acid (ng/g)	1.4		1.1		1.1		2.5		300
Perfluorotetradecanoic acid (ng/g)	0.39	J	0.38	U	0.38	U	0.38	U	NV
Perfluorotridecanoic acid (ng/g)	0.77	U	0.76	U	0.76	U	0.75	U	NV
Perfluoroundecanoic acid (ng/g)	0.38	U	0.38	U	0.38	U	0.38	U	NV
TOC (mg/kg)	14,600		8,230		6,460		4,480		NV
Moisture Content (%)	21.7		21.1		21.5		20.5		NV
Number of PFCs Detected	5		2		1		1		
Total PFCs (includes PFOA)	3.97		1.52		1.1		2.5		
Total PFOA	1.4		1.52		1.1		2.5		

29LeverRd 42.91770877 -73.24762372

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

SHALLOW SOIL SAMPLING
500 McCullough Road (Peace Farm), Bennington, VT 05257
Date Sampled: May 11, 2016

Parameter	Sample ID: Peace Farm LAB Sample ID: 8377465 Sample Depth: 0 - 6"		Sample ID: Peace Farm LAB Sample ID: 8377466 Sample Depth: 6" - 12"		Sample ID: Peace Farm LAB Sample ID: 8377467 Sample Depth: 12" - 18"		Sample ID: Peace Farm LAB Sample ID: 8377468 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.99	U	0.90	U	0.99	U	0.98	U	NV
Perfluorobutanesulfonate (ng/g)	0.71	U	0.64	U	0.71	U	0.70	U	NV
Perfluorodecanoic acid (ng/g)	0.28	U	0.26	U	0.28	U	0.28	U	NV
Perfluorododecanoic acid (ng/g)	0.57	U	0.51	U	0.56	U	0.56	U	NV
Perfluoroheptanoic acid (ng/g)	0.42	U	0.38	U	0.42	U	0.42	U	NV
Perfluorohexanesulfonate (ng/g)	0.71	U	0.64	U	0.71	U	0.70	U	NV
Perfluorohexanoic acid (ng/g)	0.28	U	0.26	U	0.28	U	0.28	U	NV
Perfluorononanoic acid (ng/g)	0.28	U	0.26	U	0.28	U	0.28	U	NV
Perfluorooctanoic acid (ng/g)	3.0		3.4		5.1		6.5		300
Perfluorotetradecanoic acid (ng/g)	0.42	U	0.38	U	0.42	U	0.42	U	NV
Perfluorotridecanoic acid (ng/g)	0.85	U	0.77	U	0.85	U	0.84	U	NV
Perfluoroundecanoic acid (ng/g)	0.42	U	0.38	U	0.42	U	0.42	U	NV
TOC (mg/kg)	26,000		20,900		23,700		15,300		NV
Moisture Content (%)	29.3		21.8		29.2		28.7		NV
Number of PFCs Detected	1		1		1		1		
Total PFCs (includes PFOA)	3.00		3.4		5.1		6.5		
Total PFOA	3.00		3.4		5.1		6.5		

500 McCollough Road Peace Farm 42.93013700 -73.263328

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

SHALLOW SOIL SAMPLING
Murphy Rd Farmland, North Bennington, VT 05257
Date Sampled: May 11, 2016

Parameter	Sample ID: Murphy Rd Farmland LAB Sample ID: 8377451 Sample Depth: 0 - 6"		Sample ID: Murphy Rd Farmland LAB Sample ID: 8377452 Sample Depth: 6" - 12"		Sample ID: Murphy Rd Farmland LAB Sample ID: 8377453 Sample Depth: 12" - 18"		Sample ID: Murphy Rd Farmland LAB Sample ID: 8377454 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.92	U	0.90	U	0.91	U	0.91	U	NV
Perfluorobutanesulfonate (ng/g)	0.69	JB	0.67	JB	0.69	JB	0.69	JB	NV
Perfluorodecanoic acid (ng/g)	0.69		0.26	U	0.26	U	0.26	U	NV
Perfluorododecanoic acid (ng/g)	0.52	U	0.52	U	0.52	U	0.52	U	NV
Perfluoroheptanoic acid (ng/g)	0.39	U	0.39	U	0.40	J	0.39	U	NV
Perfluorohexanesulfonate (ng/g)	0.66	U	0.64	U	0.65	U	0.65	U	NV
Perfluorohexanoic acid (ng/g)	0.26	U	0.26	U	0.89	U	0.38	J	NV
Perfluorononanoic acid (ng/g)	0.26	U	0.39	JB	0.26	U	0.26	U	NV
Perfluorooctanoic acid (ng/g)	0.68	J	3.9		12		8.7		300
Perfluorotetradecanoic acid (ng/g)	0.39	U	0.39	U	0.39	U	0.39	U	NV
Perfluorotridecanoic acid (ng/g)	0.79	U	0.77	U	0.78	U	0.78	U	NV
Perfluoroundecanoic acid (ng/g)	0.53	J	0.39	U	0.39	U	0.39	U	NV
TOC (mg/kg)	14,300		12,700		14,000		8,030		NV
Moisture Content (%)	23.8		22.4		23.3		23.0		NV
Number of PFCs Detected	4		3		3		3		
Total PFCs (includes PFOA)	2.59		5.0		13.1		9.8		
Total PFOA	0.68		3.9		12.0		8.7		

Murphy Rd Farmland 42.91302800 -73.241542

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
765 Murphy Road, North Bennington, VT 05257
Date Sampled: March 17, 2016

Parameter	Sample ID: 765 Murphy Rd LAB Sample ID: 8294131 Sample Depth: 0 - 6"		Sample ID: 765 Murphy Rd LAB Sample ID: 8294132 Sample Depth: 6" - 12"		Sample ID: 765 Murphy Rd LAB Sample ID: 8294133 Sample Depth: 12" - 18"		Sample ID: 765 Murphy Rd LAB Sample ID: 8294134 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1.3	J	1.1	U	0.94	U	0.88	U	NV
Perfluorobutanesulfonate (ng/g)	0.71	U	0.76	U	0.67	U	0.63	U	NV
Perfluorodecanoic acid (ng/g)	0.29	U	0.3	U	0.27	U	0.25	U	NV
Perfluorododecanoic acid (ng/g)	0.57	U	0.61	U	0.53	U	0.5	U	NV
Perfluoroheptanoic acid (ng/g)	0.43	U	0.46	U	0.4	U	0.38	U	NV
Perfluorohexanesulfonate (ng/g)	0.71	U	0.76	U	0.67	U	0.63	U	NV
Perfluorohexanoic acid (ng/g)	0.29	U	0.3	U	0.27	U	0.25	U	NV
Perfluorononanoic acid (ng/g)	0.34	J	0.3	U	0.27	U	0.25	U	NV
Perfluorooctanoic acid (ng/g)	6.4		6.3		2.6		1.6		300
Perfluorotetradecanoic acid (ng/g)	0.43	U	0.46	U	0.4	U	0.38	U	NV
Perfluorotridecanoic acid (ng/g)	0.86	U	0.91	U	0.8	U	0.76	U	NV
Perfluoroundecanoic acid (ng/g)	0.43	U	0.46	U	0.4	U	0.38	U	NV
TOC (mg/kg)	20,400		13,200		6,220		3,440		NV
Moisture Content (%)	30.0		34.2		25.2		20.6		NV
Number of PFCs Detected	3		1		1		1		
Total PFCs (includes PFOA)	8.04		6.3		2.6		1.6		
Total PFOA	6.4		6.3		2.6		1.6		

765MurphyRd 42.91011460 -73.24500396

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
2009 North Bennington Road, North Bennington, VT 05257
Date Sampled: March 22, 2016

Parameter	Sample ID: 2009 N Bennington LAB Sample ID: 8298606 Sample Depth: 0 - 6"		Sample ID: 2009 N Bennington LAB Sample ID: 8298607 Sample Depth: 6" - 12"		Sample ID: 2009 N Bennington LAB Sample ID: 8298608 Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	2.3		0.86	U	0.89	U	NS		NV
Perfluorobutanesulfonate (ng/g)	0.62	U	0.62	U	0.64	U	NS		NV
Perfluorodecanoic acid (ng/g)	4.3		0.6		0.26	U	NS		NV
Perfluorododecanoic acid (ng/g)	2.4		0.49	U	0.51	U	NS		NV
Perfluoroheptanoic acid (ng/g)	0.37	U	0.37	U	0.38	U	NS		NV
Perfluorohexanesulfonate (ng/g)	0.62	U	0.62	U	0.64	U	NS		NV
Perfluorohexanoic acid (ng/g)	0.51		0.25	U	0.26	U	NS		NV
Perfluorononanoic acid (ng/g)	1.1		1.3		0.36	J	NS		NV
Perfluorooctanoic acid (ng/g)	4.2		4.9		45		NS		300
Perfluorotetradecanoic acid (ng/g)	1.3		0.37	U	0.38	U	NS		NV
Perfluorotridecanoic acid (ng/g)	2.2		0.74	U	0.77	U	NS		NV
Perfluoroundecanoic acid (ng/g)	2.5		0.37	U	0.38	U	NS		NV
TOC (mg/kg)	21,800		5,970		14,400		NS		NV
Moisture Content (%)	19.7		19.0		21.6		NS		NV
Number of PFCs Detected	9		3		2		NS		
Total PFCs (includes PFOA)	20.81		6.8		45.36		NS		
Total PFOA	4.2		4.9		45		NS		

2009NBennRd 42.91425845 -73.24310688

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Paran Creek Access Point, 492 Water Street, North Bennington, VT 05257
Date Sampled: March 24, 2016

Parameter	Sample ID: Pkng Lot W Paran Creek LAB Sample ID: 8303042 Sample Depth: 0 - 6"		Sample ID: Pkng Lot W Paran Creek LAB Sample ID: 8303043 Sample Depth: 6" - 12"		Sample ID: Pkng Lot W Paran Creek LAB Sample ID: 8303044 Sample Depth: 12" - 18"		Sample ID: Pkng Lot W Paran Creek LAB Sample ID: 8303045 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1.2	J	1.2	J	0.8	U	0.86	U	NV
Perfluorobutanesulfonate (ng/g)	0.62	U	0.64	U	0.57	U	0.61	U	NV
Perfluorodecanoic acid (ng/g)	0.59		0.77		0.23	U	0.25	U	NV
Perfluorododecanoic acid (ng/g)	0.49	U	0.51	U	0.46	U	0.49	U	NV
Perfluoroheptanoic acid (ng/g)	0.37	U	0.38	U	0.34	U	0.37	U	NV
Perfluorohexanesulfonate (ng/g)	0.62	U	0.64	U	0.57	U	0.61	U	NV
Perfluorohexanoic acid (ng/g)	0.25	U	0.25	U	0.23	U	0.25	U	NV
Perfluorononanoic acid (ng/g)	0.27	J	0.26	J	0.23	U	0.25	U	NV
Perfluorooctanoic acid (ng/g)	0.37	U	1.3		0.34	U	0.6	J	300
Perfluorotetradecanoic acid (ng/g)	0.48	J	0.44	J	0.34	U	0.37	U	NV
Perfluorotridecanoic acid (ng/g)	0.74	U	0.76	U	0.68	U	0.74	U	NV
Perfluoroundecanoic acid (ng/g)	0.58	J	0.46	J	0.34	U	0.37	U	NV
TOC (mg/kg)	15,900		13,200		3,380		7,820		NV
Moisture Content (%)	18.7		21.5		12.2		18.5		NV
Number of PFCs Detected	5		6		0		1		
Total PFCs (includes PFOA)	3.12		4.43		U		0.6		
Total PFOA	0.37		1.3		U		0.6		

PkngLotWParanC 42.91736579 -73.24640717

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
980 Park Street, North Bennington, VT 05257
Date Sampled: March 21, 2016

Parameter	Sample ID: 980 Park St LAB Sample ID: 8297422 Sample Depth: 0 - 6"		Sample ID: 980 Park St LAB Sample ID: 8297423 Sample Depth: 6" - 12"		Sample ID: 980 Park St LAB Sample ID: 8297424 Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	2.1	J	1.4	J	0.84	U	NS		NV
Perfluorobutanesulfonate (ng/g)	0.66	U	0.59	U	0.6	U	NS		NV
Perfluorodecanoic acid (ng/g)	0.69		0.24	U	0.24	J	NS		NV
Perfluorododecanoic acid (ng/g)	0.53	U	0.47	U	0.48	U	NS		NV
Perfluoroheptanoic acid (ng/g)	0.4	U	0.36	U	0.36	U	NS		NV
Perfluorohexanesulfonate (ng/g)	0.66	U	0.59	U	0.6	U	NS		NV
Perfluorohexanoic acid (ng/g)	0.26	U	0.24	U	0.24	U	NS		NV
Perfluorononanoic acid (ng/g)	0.5	J	0.24	U	0.24	J	NS		NV
Perfluorooctanoic acid (ng/g)	2.7		1.5		1.5		NS		300
Perfluorotetradecanoic acid (ng/g)	0.4	U	0.36	U	0.36	U	NS		NV
Perfluorotridecanoic acid (ng/g)	0.79	U	0.71	U	0.72	U	NS		NV
Perfluoroundecanoic acid (ng/g)	0.4	U	0.36	U	0.36	U	NS		NV
TOC (mg/kg)	17,400		16,800		8,980		NS		NV
Moisture Content (%)	24.3		15.7		16.2		NS		NV
Number of PFCs Detected	4		2		3		NS		
Total PFCs (includes PFOA)	5.99		2.9		1.98		NS		
Total PFOA	2.7		1.5		1.5		NS		

980ParkSt 42.91556217 -73.24958249

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Garden, Pembroke Nursery, 132 Harrington Road, North Bennington, VT 05257
Date Sampled: March 22, 2016

Parameter	Sample ID: Pembroke Garden LAB Sample ID: 8298620 Sample Depth: Composite		Sample ID: Pembroke Garden LAB Sample ID: 8298624 Sample Depth: 6" - 12"		Sample ID: Pembroke Garden LAB Sample ID: 8298625 Sample Depth: 12" - 18"		Sample ID: Pembroke Garden LAB Sample ID: 8298626 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.85	U	0.83	U	0.83	U	0.82	U	NV
Perfluorobutanesulfonate (ng/g)	0.61	U	0.6	U	0.59	U	0.59	U	NV
Perfluorodecanoic acid (ng/g)	0.24	U	0.24	U	0.24	U	0.23	U	NV
Perfluorododecanoic acid (ng/g)	0.48	U	0.48	U	0.47	U	0.47	U	NV
Perfluoroheptanoic acid (ng/g)	0.36	U	0.36	U	0.35	U	0.35	U	NV
Perfluorohexanesulfonate (ng/g)	0.61	U	0.6	U	0.59	U	0.59	U	NV
Perfluorohexanoic acid (ng/g)	0.24	U	0.24	U	0.24	U	0.23	U	NV
Perfluorononanoic acid (ng/g)	0.35	J	0.24	U	0.24	U	0.23	U	NV
Perfluorooctanoic acid (ng/g)	0.75		1.8		1.9		2		300
Perfluorotetradecanoic acid (ng/g)	0.36	U	0.36	U	0.37	J	0.35	U	NV
Perfluorotridecanoic acid (ng/g)	0.73	U	0.71	U	0.71	U	0.7	U	NV
Perfluoroundecanoic acid (ng/g)	0.36	U	0.36	U	0.35	U	0.35	U	NV
TOC (mg/kg)	10,900		7,040		4,540		3,480		NV
Moisture Content (%)	17.4		16		15.2		14.7		NV
Number of PFCs Detected	2		1		1		1		
Total PFCs (includes PFOA)	1.1		1.8		1.9		2		
Total PFOA	0.75		1.8		1.9		2		

PembrokeGarden 42.91352436 -73.25658993

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Stockpile 1, Pembroke Nursery, 132 Harrington Road, North Bennington, VT 05257
Date Sampled: March 22, 2016

Parameter	Sample ID: Pembroke Stockpile 1 LAB Sample ID: 8298601 Sample Depth: Composite[1]		Sample ID: LAB Sample ID: Sample Depth: 6" - 12"		Sample ID: LAB Sample ID: Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.95	U	NS		NS		NS		NV
Perfluorobutanesulfonate (ng/g)	0.68	U	NS		NS		NS		NV
Perfluorodecanoic acid (ng/g)	0.27	U	NS		NS		NS		NV
Perfluorododecanoic acid (ng/g)	0.55	U	NS		NS		NS		NV
Perfluoroheptanoic acid (ng/g)	0.41	U	NS		NS		NS		NV
Perfluorohexanesulfonate (ng/g)	0.68	U	NS		NS		NS		NV
Perfluorohexanoic acid (ng/g)	0.27	U	NS		NS		NS		NV
Perfluorononanoic acid (ng/g)	0.43	J	NS		NS		NS		NV
Perfluorooctanoic acid (ng/g)	5.6		NS		NS		NS		300
Perfluorotetradecanoic acid (ng/g)	0.41	U	NS		NS		NS		NV
Perfluorotridecanoic acid (ng/g)	0.82	U	NS		NS		NS		NV
Perfluoroundecanoic acid (ng/g)	0.41	U	NS		NS		NS		NV
TOC (mg/kg)	41,700		NS		NS		NS		NV
Moisture Content (%)	26.7		NS		NS		NS		NV
Number of PFCs Detected	2		NS		NS		NS		
Total PFCs (includes PFOA)	6.03		NS		NS		NS		
Total PFOA	5.60		NS		NS		NS		

PembrokeStocP1 42.91722849 -73.26011854

Notes:
(1) Composite sample consisted of five (5) individual grab samples collected from throughout the stockpile.
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Stockpile 2, Pembroke Nursery, 132 Harrington Road, North Bennington, VT 05257
Date Sampled: March 22, 2016

Parameter	Sample ID: Pembroke Stockpile 2 LAB Sample ID: 8298627 Sample Depth: Composite[1]		Sample ID: LAB Sample ID: Sample Depth: 6" - 12"		Sample ID: LAB Sample ID: Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.9	U	NS		NS		NS		NV
Perfluorobutanesulfonate (ng/g)	0.64	U	NS		NS		NS		NV
Perfluorodecanoic acid (ng/g)	0.26	U	NS		NS		NS		NV
Perfluorododecanoic acid (ng/g)	0.51	U	NS		NS		NS		NV
Perfluoroheptanoic acid (ng/g)	0.39	U	NS		NS		NS		NV
Perfluorohexanesulfonate (ng/g)	0.64	U	NS		NS		NS		NV
Perfluorohexanoic acid (ng/g)	0.26	U	NS		NS		NS		NV
Perfluorononanoic acid (ng/g)	0.26	U	NS		NS		NS		NV
Perfluorooctanoic acid (ng/g)	1.5		NS		NS		NS		300
Perfluorotetradecanoic acid (ng/g)	0.39	U	NS		NS		NS		NV
Perfluorotridecanoic acid (ng/g)	0.77	U	NS		NS		NS		NV
Perfluoroundecanoic acid (ng/g)	0.39	U	NS		NS		NS		NV
TOC (mg/kg)	12,300		NS		NS		NS		NV
Moisture Content (%)	22.2		NS		NS		NS		NV
Number of PFCs Detected	1		NS		NS		NS		
Total PFCs (includes PFOA)	1.5		NS		NS		NS		
Total PFOA	1.5		NS		NS		NS		

PembrokeSP2 42.91569075 -73.26127868

Notes:
(1) Composite sample consisted of five (5) individual grab samples collected from throughout the stockpile.
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
8 Polygraphic Lane, North Bennington, VT 05257
Date Sampled: March 21, 2016

Parameter	Sample ID: 8 Polygraphic Ln LAB Sample ID: 8297375 Sample Depth: 0 - 6"		Sample ID: 8 Polygraphic Ln LAB Sample ID: 8297411 Sample Depth: 6" - 12"		Sample ID: 8 Polygraphic Ln LAB Sample ID: 8297415 Sample Depth: 12" - 18"		Sample ID: 8 Polygraphic Ln LAB Sample ID: 8297417 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1.4	J	0.79	U	0.85	U	0.84	U	NV
Perfluorobutanesulfonate (ng/g)	0.62	U	0.56	U	0.6	U	0.6	U	NV
Perfluorodecanoic acid (ng/g)	0.82		0.23	U	0.24	U	0.32	J	NV
Perfluorododecanoic acid (ng/g)	0.49	U	0.45	U	0.48	U	0.48	U	NV
Perfluoroheptanoic acid (ng/g)	0.37	U	0.34	U	0.36	U	0.36	U	NV
Perfluorohexanesulfonate (ng/g)	0.62	U	0.56	U	0.6	U	0.6	U	NV
Perfluorohexanoic acid (ng/g)	0.5		0.23	U	0.45	J	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.48	J	0.23	U	0.24	U	0.36	J	NV
Perfluorooctanoic acid (ng/g)	4.2		1.9		2.1		2.4		300
Perfluorotetradecanoic acid (ng/g)	0.37	U	0.34	U	0.36	U	0.36	U	NV
Perfluorotridecanoic acid (ng/g)	0.74	U	0.68	U	0.73	U	0.72	U	NV
Perfluoroundecanoic acid (ng/g)	0.42	J	0.34	U	0.36	U	0.36	U	NV
TOC (mg/kg)	22,200		16,500		33,000		6,870		NV
Moisture Content (%)	18.7		11.4		17.3		16.4		NV
Number of PFCs Detected	6		1		2		3		
Total PFCs (includes PFOA)	7.82		1.9		2.55		3.08		
Total PFOA	4.2		1.9		2.1		2.4		

8PolygrahicLn 42.91378529 -73.24932382

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
15 Polygraphic Lane, North Bennington, VT 05257
Date Sampled: March 21, 2016

Parameter	Sample ID: 15 Polygraphic LAB Sample ID: 8297420 Sample Depth: 0 - 6"		Sample ID: 15 Polygraphic LAB Sample ID: 8297421 Sample Depth: 6" - 12"		Sample ID: LAB Sample ID: Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.9	U	0.84	U	NS		NS		NV
Perfluorobutanesulfonate (ng/g)	0.64	U	0.6	U	NS		NS		NV
Perfluorodecanoic acid (ng/g)	0.58		0.24	U	NS		NS		NV
Perfluorododecanoic acid (ng/g)	0.51	U	0.48	U	NS		NS		NV
Perfluoroheptanoic acid (ng/g)	0.39	U	0.36	U	NS		NS		NV
Perfluorohexanesulfonate (ng/g)	0.64	U	0.6	U	NS		NS		NV
Perfluorohexanoic acid (ng/g)	0.26	U	0.24	U	NS		NS		NV
Perfluorononanoic acid (ng/g)	0.42	J	0.24	U	NS		NS		NV
Perfluorooctanoic acid (ng/g)	0.84		1.1		NS		NS		300
Perfluorotetradecanoic acid (ng/g)	0.39	U	0.36	U	NS		NS		NV
Perfluorotridecanoic acid (ng/g)	0.77	U	0.72	U	NS		NS		NV
Perfluoroundecanoic acid (ng/g)	0.51	J	0.36	U	NS		NS		NV
TOC (mg/kg)	14,400		11,900		NS		NS		NV
Moisture Content (%)	22.1		16.9		NS		NS		NV
Number of PFCs Detected	4		1		NS		NS		
Total PFCs (includes PFOA)	2.35		1.1		NS		NS		
Total PFOA	0.84		1.1		NS		NS		

15PolygraphLn 42.91280251 -73.25050148

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Roadside Playground, 59 River Road, North Bennington, VT 05257
Date Sampled: March 16, 2016

Parameter	Sample ID: 59 River Rd Roadside Playgrnd LAB Sample ID: 8291928 Sample Depth: 0 - 6"		Sample ID: 59 River Rd Roadside Playgrnd LAB Sample ID: 8291929 Sample Depth: 6" - 12"		Sample ID: 59 River Rd Roadside Playgrnd LAB Sample ID: 8291930 Sample Depth: 12" - 18"		Sample ID: 59 River Rd Roadside Playgrnd LAB Sample ID: 8291931 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	2.8		1.3	J	1.2	J	0.78	U	NV
Perfluorobutanesulfonate (ng/g)	0.65	U	0.61	U	0.58	U	0.56	U	NV
Perfluorodecanoic acid (ng/g)	0.46	J	0.25	J	0.23	U	0.22	U	NV
Perfluorododecanoic acid (ng/g)	0.65	U	0.61	U	0.58	U	0.56	U	NV
Perfluoroheptanoic acid (ng/g)	0.39	U	0.36	U	0.35	U	0.34	U	NV
Perfluorohexanesulfonate (ng/g)	0.65	U	0.61	U	0.58	U	0.56	U	NV
Perfluorohexanoic acid (ng/g)	0.26	U	0.24	U	0.23	U	0.22	U	NV
Perfluorononanoic acid (ng/g)	0.26	U	0.31	J	0.23	U	0.22	U	NV
Perfluorooctanoic acid (ng/g)	0.74	J	0.86		0.66	J	0.34	U	300
Perfluorotetradecanoic acid (ng/g)	0.52	U	0.49	U	0.46	U	0.45	U	NV
Perfluorotridecanoic acid (ng/g)	0.78	U	0.73	U	0.69	U	0.67	U	NV
Perfluoroundecanoic acid (ng/g)	0.39	U	0.36	U	0.35	U	0.34	U	NV
TOC (mg/kg)	17,400		12,700		2,940		3,430		NV
Moisture Content (%)	23.4		17.8		13.4		10.5		NV
Number of PFCs Detected	3		4		2		0		
Total PFCs (includes PFOA)	4.0		2.72		1.86		U		
Total PFOA	0.74		0.86		0.66		U		

59 RiverRdROAD 42.91344255 -73.24717621

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Playground Slide, 59 River Road, North Bennington, VT 05257
Date Sampled: March 16, 2016

Parameter	Sample ID: 59 River Rd Slide LAB Sample ID: 8291932 Sample Depth: 0 - 6"		Sample ID: 59 River Rd Slide LAB Sample ID: 8291933 Sample Depth: 6" - 12"		Sample ID: LAB Sample ID: Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.82	U	1.0	J	NS		NS		NV
Perfluorobutanesulfonate (ng/g)	0.59	U	0.57	U	NS		NS		NV
Perfluorodecanoic acid (ng/g)	0.23	U	0.23	U	NS		NS		NV
Perfluorododecanoic acid (ng/g)	0.59	U	0.57	U	NS		NS		NV
Perfluoroheptanoic acid (ng/g)	0.35	U	0.34	U	NS		NS		NV
Perfluorohexanesulfonate (ng/g)	0.59	U	0.57	U	NS		NS		NV
Perfluorohexanoic acid (ng/g)	0.23	U	0.23	U	NS		NS		NV
Perfluorononanoic acid (ng/g)	0.23	U	0.23	U	NS		NS		NV
Perfluorooctanoic acid (ng/g)	0.35	U	0.34	U	NS		NS		300
Perfluorotetradecanoic acid (ng/g)	0.47	U	0.45	U	NS		NS		NV
Perfluorotridecanoic acid (ng/g)	0.7	U	0.68	U	NS		NS		NV
Perfluoroundecanoic acid (ng/g)	0.35	U	0.34	U	NS		NS		NV
TOC (mg/kg)	13,700		6,280		NS		NS		NV
Moisture Content (%)	14.8		11.6		NS		NS		NV
Number of PFCs Detected	0		1		NS		NS		
Total PFCs (includes PFOA)	U		1.0		NS		NS		
Total PFOA	U		1.0		NS		NS		

59RiverRDSlide 42.91361405 -73.24724528

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
180 River Road, North Bennington, VT 05257
Date Sampled: March 23, 2016

Parameter	Sample ID: 180 River Rd LAB Sample ID: 8301012 Sample Depth: 0 - 6"		Sample ID: 180 River Rd LAB Sample ID: 8301013 Sample Depth: 6" - 12"		Sample ID: 180 River Rd LAB Sample ID: 8301014 Sample Depth: 12" - 18"		Sample ID: 180 River Rd LAB Sample ID: 8301015 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1.9 (2.0U)	JB	1.5	U	0.75	U	0.99 (1.8U)	JB	NV
Perfluorobutanesulfonate (ng/g)	0.61	U	1.1	U	0.54	U	0.55	U	NV
Perfluorodecanoic acid (ng/g)	0.73		0.43	U	0.21	U	0.41	J	NV
Perfluorododecanoic acid (ng/g)	1.7		1.4	J	0.63	J	0.54	J	NV
Perfluoroheptanoic acid (ng/g)	0.37	U	0.64	U	0.32	U	0.33	U	NV
Perfluorohexanesulfonate (ng/g)	0.61	U	1.1	U	0.54	U	0.55	U	NV
Perfluorohexanoic acid (ng/g)	0.24	U	0.43	U	0.21	U	0.22	U	NV
Perfluorononanoic acid (ng/g)	0.24	U	0.43	U	0.21	U	0.22	U	NV
Perfluorooctanoic acid (ng/g)	2		0.66	J	0.32	U	0.33	U	300
Perfluorotetradecanoic acid (ng/g)	0.37	U	0.64	U	0.32	U	0.33	U	NV
Perfluorotridecanoic acid (ng/g)	1.6		1.3	U	0.64	U	0.66	U	NV
Perfluoroundecanoic acid (ng/g)	0.9		0.64	U	0.32	U	0.33	U	NV
TOC (mg/kg)	NA		8,320		5,400		14,100		NV
Moisture Content (%)	NA		6.5		6.7		9.7		NV
Number of PFCs Detected	5		2		1		2		
Total PFCs (includes PFOA)	6.93		2.06		0.63		0.95		
Total PFOA	2		0.66		ND		ND		

180RiverSt 42.91345512 -73.24619486

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
6 Royal Street, North Bennington, VT 05257
Date Sampled: March 17, 2016

Parameter	Sample ID: 6 Royal St LAB Sample ID: 8294109 Sample Depth: 0 - 6"		Sample ID: 6 Royal St LAB Sample ID: 8294110 Sample Depth: 6" - 12"		Sample ID: 6 Royal St LAB Sample ID: 8294111 Sample Depth: 12" - 18"		Sample ID: 6 Royal St LAB Sample ID: 8294112 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.83	U	0.75	U	0.87	U	0.89	U	NV
Perfluorobutanesulfonate (ng/g)	0.59	U	0.53	U	0.62	U	0.63	U	NV
Perfluorodecanoic acid (ng/g)	0.24	J	0.21	U	0.76		1		NV
Perfluorododecanoic acid (ng/g)	0.49	J	0.43	U	0.49	U	0.51	U	NV
Perfluoroheptanoic acid (ng/g)	0.36	U	0.32	U	0.37	U	0.38	U	NV
Perfluorohexanesulfonate (ng/g)	0.59	U	0.53	U	0.62	U	0.63	U	NV
Perfluorohexanoic acid (ng/g)	0.24	U	0.21	U	0.25	U	0.25	U	NV
Perfluorononanoic acid (ng/g)	0.24	U	0.21	U	0.25	U	0.25	U	NV
Perfluorooctanoic acid (ng/g)	0.82		0.32	U	0.37	U	0.55	J	300
Perfluorotetradecanoic acid (ng/g)	0.36	U	0.32	U	0.37	U	0.38	U	NV
Perfluorotridecanoic acid (ng/g)	0.71	U	0.64	U	0.74	U	0.76	U	NV
Perfluoroundecanoic acid (ng/g)	0.54	J	0.32	U	0.37	U	0.38	U	NV
TOC (mg/kg)	8,860		1,230		2,490		7,860		NV
Moisture Content (%)	15.5		6.4		19.1		21.1		NV
Number of PFCs Detected	4		0		1		2		
Total PFCs (includes PFOA)	2.09		U		0.76		1.55		
Total PFOA	0.82		U		U		0.55		

6Royalst 42.91434285 -73.24380484

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
5 Scarey Lane, North Bennington, VT 05257
Date Sampled: March 17, 2016

Parameter	Sample ID: 5 Scarey Lane LAB Sample ID: 8294115 Sample Depth: 0 - 6"		Sample ID: 5 Scarey Lane LAB Sample ID: 8294116 Sample Depth: 6" - 12"		Sample ID: 5 Scarey Lane LAB Sample ID: 8294117 Sample Depth: 12" - 18"		Sample ID: 5 Scarey Lane LAB Sample ID: 8294118 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.91	U	0.88	U	0.86	U	1.5	J	NV
Perfluorobutanesulfonate (ng/g)	0.65	U	0.63	U	0.61	U	0.61	U	NV
Perfluorodecanoic acid (ng/g)	3.8		1.2		0.6		0.67		NV
Perfluorododecanoic acid (ng/g)	1.6		0.59	J	0.49	U	0.49	U	NV
Perfluoroheptanoic acid (ng/g)	0.39	U	0.38	U	0.37	U	0.37	U	NV
Perfluorohexanesulfonate (ng/g)	0.65	U	0.63	U	0.61	U	0.61	U	NV
Perfluorohexanoic acid (ng/g)	0.26	U	0.25	U	0.52		0.24	U	NV
Perfluorononanoic acid (ng/g)	1.3		1.1		1.1		0.82		NV
Perfluorooctanoic acid (ng/g)	6.2		5.9		7.1		8.2		300
Perfluorotetradecanoic acid (ng/g)	0.39	U	0.38	U	0.37	U	0.37	U	NV
Perfluorotridecanoic acid (ng/g)	0.78	U	0.75	U	0.74	U	0.73	U	NV
Perfluoroundecanoic acid (ng/g)	1.9		0.38	U	0.42	J	0.37	U	NV
TOC (mg/kg)	32,000		18,600		15,900		13,800		NV
Moisture Content (%)	22.9		20.1		18.5		18.3		NV
Number of PFCs Detected	5		4		5		4		
Total PFCs (includes PFOA)	14.8		8.8		9.7		10.3		
Total PFOA	6.2		5.9		7.1		8.2		

5ScareyLane 42.91421344 -73.24512885

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
10 Scarey Lane, North Bennington, VT 05257
Date Sampled: March 21, 2016

Parameter	Sample ID: 10 Scarey Ln LAB Sample ID: 8297369 Sample Depth: 0 - 6"		Sample ID: 10 Scarey Ln LAB Sample ID: 8297370 Sample Depth: 6" - 12"		Sample ID: 10 Scarey Ln LAB Sample ID: 8297371 Sample Depth: 12" - 18"		Sample ID: 10 Scarey Ln LAB Sample ID: 8297372 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.98	J	1.2	J	1.1	J	0.85	U	NV
Perfluorobutanesulfonate (ng/g)	0.64	U	0.57	U	0.55	U	0.61	U	NV
Perfluorodecanoic acid (ng/g)	3.8		0.68		1.1		0.59		NV
Perfluorododecanoic acid (ng/g)	1.9		0.5	J	0.52	J	0.48	U	NV
Perfluoroheptanoic acid (ng/g)	0.38	U	0.34	U	0.33	U	0.36	U	NV
Perfluorohexanesulfonate (ng/g)	0.64	U	0.57	U	0.55	U	0.61	U	NV
Perfluorohexanoic acid (ng/g)	0.26	U	0.23	U	0.22	U	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.6		0.37	J	0.38	J	0.56		NV
Perfluorooctanoic acid (ng/g)	4.1		1.4		2.3		3.6		300
Perfluorotetradecanoic acid (ng/g)	0.79	J	0.34	U	0.33	U	0.36	U	NV
Perfluorotridecanoic acid (ng/g)	0.84	J	0.69	U	0.66	U	0.73	U	NV
Perfluoroundecanoic acid (ng/g)	2.8		0.41	J	0.51	J	0.36	U	NV
TOC (mg/kg)	22,600		7,340		8,410		9,150		NV
Moisture Content (%)	21.8		12.5		8.8		17.5		NV
Number of PFCs Detected	8		6		6		3		
Total PFCs (includes PFOA)	15.81		4.56		5.91		4.75		
Total PFOA	4.1		1.4		2.3		3.6		

10ScareyLane 42.91411662 -73.24564626

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
15 Scarey Lane, North Bennington, VT 05257
Date Sampled: March 17, 2016

Parameter	Sample ID: 15 Scarey Lane LAB Sample ID: 8294125 Sample Depth: 0 - 6"		Sample ID: 15 Scarey Lane LAB Sample ID: 8294129 Sample Depth: 6" - 12"		Sample ID: LAB Sample ID: Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.91	U	0.8	U	NS		NS		NV
Perfluorobutanesulfonate (ng/g)	0.65	U	0.57	U	NS		NS		NV
Perfluorodecanoic acid (ng/g)	2		1.2		NS		NS		NV
Perfluorododecanoic acid (ng/g)	1.1		0.55	J	NS		NS		NV
Perfluoroheptanoic acid (ng/g)	0.39	U	0.34	U	NS		NS		NV
Perfluorohexanesulfonate (ng/g)	0.65	U	0.57	U	NS		NS		NV
Perfluorohexanoic acid (ng/g)	0.38	J	0.3	J	NS		NS		NV
Perfluorononanoic acid (ng/g)	0.44	J	0.44	J	NS		NS		NV
Perfluorooctanoic acid (ng/g)	1.5		1.2		NS		NS		300
Perfluorotetradecanoic acid (ng/g)	0.39	U	0.34	U	NS		NS		NV
Perfluorotridecanoic acid (ng/g)	0.78	U	0.69	U	NS		NS		NV
Perfluoroundecanoic acid (ng/g)	1.3		0.52	J	NS		NS		NV
TOC (mg/kg)	22,300		7,220		NS		NS		NV
Moisture Content (%)	23.1		12.7		NS		NS		NV
Number of PFCs Detected	6		6		NS		NS		
Total PFCs (includes PFOA)	6.72		4.21		NS		NS		
Total PFOA	1.5		1.2		NS		NS		

15ScareyLane 42.91560458 -73.24500832

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
26 Scarey Lane, North Bennington, VT 05257
Date Sampled: March 21, 2016

Parameter	Sample ID: 26 Scarey Ln LAB Sample ID: 8297373 Sample Depth: 0 - 6"		Sample ID: 26 Scarey Ln LAB Sample ID: 8297374 Sample Depth: 6" - 12"		Sample ID: LAB Sample ID: Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.86	J	0.75	U	NS		NS		NV
Perfluorobutanesulfonate (ng/g)	0.57	U	0.54	U	NS		NS		NV
Perfluorodecanoic acid (ng/g)	0.3	J	0.26	J	NS		NS		NV
Perfluorododecanoic acid (ng/g)	1.9		1.1		NS		NS		NV
Perfluoroheptanoic acid (ng/g)	0.34	U	0.32	U	NS		NS		NV
Perfluorohexanesulfonate (ng/g)	0.57	U	0.54	U	NS		NS		NV
Perfluorohexanoic acid (ng/g)	0.23	U	0.21	U	NS		NS		NV
Perfluorononanoic acid (ng/g)	0.23	U	0.21	U	NS		NS		NV
Perfluorooctanoic acid (ng/g)	1.1		0.33	J	NS		NS		300
Perfluorotetradecanoic acid (ng/g)	1.9		1.1		NS		NS		NV
Perfluorotridecanoic acid (ng/g)	1.4		0.64	U	NS		NS		NV
Perfluoroundecanoic acid (ng/g)	1.2		0.78		NS		NS		NV
TOC (mg/kg)	11,500		2,320		NS		NS		NV
Moisture Content (%)	12.7		6.9		NS		NS		NV
Number of PFCs Detected	7		5		NS		NS		
Total PFCs (includes PFOA)	8.66		3.57		NS		NS		
Total PFOA	1.1		0.33		NS		NS		

26ScareyLaneWH 42.91512069 -73.24564559

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
32 Scarey Lane, North Bennington, VT 05257
Date Sampled: March 17, 2016

Parameter	Sample ID: 32 Scarey Lane LAB Sample ID: 8294121 Sample Depth: 0 - 6"		Sample ID: 32 Scarey Lane LAB Sample ID: 8294122 Sample Depth: 6" - 12"		Sample ID: 32 Scarey Lane LAB Sample ID: 8294123 Sample Depth: 12" - 18"		Sample ID: 32 Scarey Lane LAB Sample ID: 8294124 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.89	U	0.78	U	1.5	J	0.82	U	NV
Perfluorobutanesulfonate (ng/g)	0.63	U	0.55	U	0.54	U	0.59	U	NV
Perfluorodecanoic acid (ng/g)	0.69		0.23	J	0.22	U	0.23	U	NV
Perfluorododecanoic acid (ng/g)	0.51	U	0.44	U	0.43	U	0.47	U	NV
Perfluoroheptanoic acid (ng/g)	0.38	U	0.33	U	0.32	U	0.35	U	NV
Perfluorohexanesulfonate (ng/g)	0.63	U	0.55	U	0.54	U	0.59	U	NV
Perfluorohexanoic acid (ng/g)	0.25	U	0.22	U	0.22	U	0.23	U	NV
Perfluorononanoic acid (ng/g)	0.53		0.22	U	0.22	U	0.23	U	NV
Perfluorooctanoic acid (ng/g)	1.3		0.9		0.35	J	0.85		300
Perfluorotetradecanoic acid (ng/g)	0.38	U	0.33	U	0.32	U	0.35	U	NV
Perfluorotridecanoic acid (ng/g)	0.76	U	0.66	U	0.65	U	0.7	U	NV
Perfluoroundecanoic acid (ng/g)	0.43	J	0.33	U	0.32	U	0.35	U	NV
TOC (mg/kg)	19,800		6,520		1,430		6,950		NV
Moisture Content (%)	21.1		9.7		7.6		14.6		NV
Number of PFCs Detected	4		2		2		1		
Total PFCs (includes PFOA)	2.95		1.13		1.85		0.85		
Total PFOA	1.3		0.9		0.35		0.85		

32ScareyLane 42.91812510 -73.24537151

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Large Playground, 9 School Street, North Bennington, VT 05257
Date Sampled: March 18, 2016

Parameter	Sample ID: 9 School St LGPG LAB Sample ID: 8294198 Sample Depth: 0 - 6"		Sample ID: 9 School St LGPG LAB Sample ID: 8294199 Sample Depth: 6" - 12"		Sample ID: 9 School St LGPG LAB Sample ID: 8294200 Sample Depth: 12" - 18"		Sample ID: 9 School St LGPG LAB Sample ID: 8294201 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.74	U	0.74	U	0.78	U	0.8	U	NV
Perfluorobutanesulfonate (ng/g)	0.53	U	0.53	U	0.55	U	0.57	U	NV
Perfluorodecanoic acid (ng/g)	0.21	U	0.21	U	0.22	U	0.23	U	NV
Perfluorododecanoic acid (ng/g)	0.42	U	0.42	U	0.44	U	0.46	U	NV
Perfluoroheptanoic acid (ng/g)	0.32	U	0.32	U	0.33	U	0.34	U	NV
Perfluorohexanesulfonate (ng/g)	0.53	U	0.53	U	0.55	U	0.57	U	NV
Perfluorohexanoic acid (ng/g)	0.21	U	0.21	U	0.22	U	0.23	U	NV
Perfluorononanoic acid (ng/g)	0.21	U	0.21	U	0.22	U	0.23	U	NV
Perfluorooctanoic acid (ng/g)	0.32	U	0.32	U	0.33	U	0.34	U	300
Perfluorotetradecanoic acid (ng/g)	0.32	U	0.32	U	0.33	U	0.34	U	NV
Perfluorotridecanoic acid (ng/g)	0.64	U	0.64	U	0.67	U	0.68	U	NV
Perfluoroundecanoic acid (ng/g)	0.32	U	0.32	U	0.33	U	0.34	U	NV
TOC (mg/kg)	405	J	221	U	242	U	222	U	NV
Moisture Content (%)	5.7		5.8		9.9		12.1		NV
Number of PFCs Detected	0		0		0		0		
Total PFCs (includes PFOA)	U		U		U		U		
Total PFOA	U		U		U		U		

9SchoolStLgpg 42.92963346 -73.24481503

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Maple Tree, 9 School Street, North Bennington, VT 05257
Date Sampled: March 22, 2016

Parameter	Sample ID: 9 School St Maple Tree LAB Sample ID: 8298609 Sample Depth: 0 - 6"		Sample ID: 9 School St Maple Tree LAB Sample ID: 8298610 Sample Depth: 6" - 12"		Sample ID: 9 School St Maple Tree LAB Sample ID: 8298611 Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.84	U	0.87	U	0.85	U	NS		NV
Perfluorobutanesulfonate (ng/g)	0.6	U	0.62	U	0.61	U	NS		NV
Perfluorodecanoic acid (ng/g)	0.24	U	0.25	U	0.24	U	NS		NV
Perfluorododecanoic acid (ng/g)	0.48	U	0.5	U	0.49	U	NS		NV
Perfluoroheptanoic acid (ng/g)	0.36	U	0.37	U	0.36	U	NS		NV
Perfluorohexanesulfonate (ng/g)	0.6	U	0.62	U	0.61	U	NS		NV
Perfluorohexanoic acid (ng/g)	0.28	J	0.25	U	0.24	U	NS		NV
Perfluorononanoic acid (ng/g)	0.31	J	0.25	U	0.24	U	NS		NV
Perfluorooctanoic acid (ng/g)	1.3		3.1		2.9		NS		300
Perfluorotetradecanoic acid (ng/g)	0.36	U	0.37	U	0.36	U	NS		NV
Perfluorotridecanoic acid (ng/g)	0.72	U	0.75	U	0.73	U	NS		NV
Perfluoroundecanoic acid (ng/g)	0.36	U	0.37	U	0.36	U	NS		NV
TOC (mg/kg)	8,790		7,530		6,340		NS		NV
Moisture Content (%)	16.8		19.5		17.6		NS		NV
Number of PFCs Detected	3		1		1		NS		
Total PFCs (includes PFOA)	1.89		3.1		2.9		NS		
Total PFOA	1.3		3.1		2.9		NS		

9SchoolStMplTr 42.92974477 -73.24418060

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Northeast Corner of Parking Lot, 9 School Street, North Bennington, VT 05257
Date Sampled: March 22, 2016

Parameter	Sample ID: 9 School St NE Corner LAB Sample ID: 8298612 Sample Depth: 0 - 6"		Sample ID: 9 School St NE Corner LAB Sample ID: 8298613 Sample Depth: 6" - 12"		Sample ID: 9 School NE Corner LAB Sample ID: 8298614 Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1.1	J	0.81	U	0.82	U	NS		NV
Perfluorobutanesulfonate (ng/g)	0.7	U	0.58	U	0.59	U	NS		NV
Perfluorodecanoic acid (ng/g)	0.28	U	0.23	U	0.24	U	NS		NV
Perfluorododecanoic acid (ng/g)	0.56	U	0.46	U	0.47	U	NS		NV
Perfluoroheptanoic acid (ng/g)	0.42	U	0.35	U	0.35	U	NS		NV
Perfluorohexanesulfonate (ng/g)	0.7	U	0.58	U	0.59	U	NS		NV
Perfluorohexanoic acid (ng/g)	0.28	U	0.23	U	0.24	U	NS		NV
Perfluorononanoic acid (ng/g)	0.28	U	0.23	U	0.24	U	NS		NV
Perfluorooctanoic acid (ng/g)	0.88		0.35	U	0.75		NS		300
Perfluorotetradecanoic acid (ng/g)	0.42	U	0.35	U	0.35	U	NS		NV
Perfluorotridecanoic acid (ng/g)	0.84	U	0.7	U	0.71	U	NS		NV
Perfluoroundecanoic acid (ng/g)	0.42	U	0.35	U	0.35	U	NS		NV
TOC (mg/kg)	26,400		11,400		5,900		NS		NV
Moisture Content (%)	28.4		13.9		15		NS		NV
Number of PFCs Detected	2		0		1		NS		
Total PFCs (includes PFOA)	1.98		U		0.75		NS		
Total PFOA	0.88		U		0.75		NS		

9SchoolStNEPL 42.93036486 -73.24414490

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Small Playground, 9 School Street, North Bennington, VT 05257
Date Sampled: March 18, 2016

Parameter	Sample ID: 9 School St SMPG LAB Sample ID: 8294194 Sample Depth: 0 - 6"		Sample ID: 9 School St SMPG LAB Sample ID: 8294195 Sample Depth: 6" - 12"		Sample ID: 9 School St SMPG LAB Sample ID: 8294196 Sample Depth: 12" - 18"		Sample ID: 9 School St SMPG LAB Sample ID: 8294197 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	2.1	U	0.83	U	1.3	J	0.74	U	NV
Perfluorobutanesulfonate (ng/g)	1.5	U	0.59	U	0.56	U	0.53	U	NV
Perfluorodecanoic acid (ng/g)	0.6	U	0.24	U	0.22	U	0.21	U	NV
Perfluorododecanoic acid (ng/g)	1.2	U	0.47	U	0.45	U	0.43	U	NV
Perfluoroheptanoic acid (ng/g)	0.89	U	0.35	U	0.34	U	0.32	U	NV
Perfluorohexanesulfonate (ng/g)	1.5	U	0.59	U	0.56	U	0.53	U	NV
Perfluorohexanoic acid (ng/g)	0.6	U	0.24	U	0.22	U	0.21	U	NV
Perfluorononanoic acid (ng/g)	0.6	U	0.24	U	0.22	U	0.21	U	NV
Perfluorooctanoic acid (ng/g)	0.89	U	0.35	U	0.34	U	0.32	U	300
Perfluorotetradecanoic acid (ng/g)	0.89	U	0.35	U	0.34	U	0.32	U	NV
Perfluorotridecanoic acid (ng/g)	1.8	U	0.71	U	0.67	U	0.64	U	NV
Perfluoroundecanoic acid (ng/g)	0.89	U	0.35	U	0.34	U	0.32	U	NV
TOC (mg/kg)	42,700		12,900		6,540		1,200		NV
Moisture Content (%)	66.4		15.2		11.1		6.0		NV
Number of PFCs Detected	0		0		1		0		
Total PFCs (includes PFOA)	U		U		1.3		U		
Total PFOA	U		U		U		U		

9SchoolStSmpg 42.92968869 -73.24451672

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
26 Susan Taylor Lane, North Bennington, VT 05257
Date Sampled: March 21, 2016

Parameter	Sample ID: 26 Susan Taylor LAB Sample ID: 8297361 Sample Depth: 0 - 6"		Sample ID: 26 Susan Taylor LAB Sample ID: 8297366 Sample Depth: 6" - 12"		Sample ID: 26 Susan Taylor LAB Sample ID: 8297367 Sample Depth: 12" - 18"		Sample ID: 26 Susan Taylor LAB Sample ID: 8297368 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	0.87	U	0.82	U	1.2	J	0.84	U	NV
Perfluorobutanesulfonate (ng/g)	0.62	U	0.59	U	0.62	U	0.6	U	NV
Perfluorodecanoic acid (ng/g)	0.58		0.25	J	1.8		0.54		NV
Perfluorododecanoic acid (ng/g)	0.5	U	0.47	U	1.3		0.48	U	NV
Perfluoroheptanoic acid (ng/g)	0.37	U	0.35	U	0.37	U	0.36	U	NV
Perfluorohexanesulfonate (ng/g)	0.62	U	0.59	U	0.62	U	0.6	U	NV
Perfluorohexanoic acid (ng/g)	0.25	U	0.24	U	0.41	J	0.24	U	NV
Perfluorononanoic acid (ng/g)	0.25	U	0.24	U	0.25	U	0.45	J	NV
Perfluorooctanoic acid (ng/g)	0.63	J	0.86		1.5		1.6		300
Perfluorotetradecanoic acid (ng/g)	0.37	U	0.35	U	0.51	J	0.36	U	NV
Perfluorotridecanoic acid (ng/g)	0.75	U	0.71	U	0.74	U	0.72	U	NV
Perfluoroundecanoic acid (ng/g)	0.39	J	0.35	U	0.9		0.36	U	NV
TOC (mg/kg)	6,850		1,600		14,200		6,590		NV
Moisture Content (%)	19.5		14.9		19.1		16.9		NV
Number of PFCs Detected	3		2		7		3		
Total PFCs (includes PFOA)	1.60		1.11		7.62		2.59		
Total PFOA	0.63		0.86		1.5		1.6		

26SusanTaylor 42.91567826 -73.24239107

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Lawn Area, 37 Susan Taylor Lane, North Bennington, VT 05257
Date Sampled: March 16, 2016

Parameter	Sample ID: 37 Susan Taylor LAB Sample ID: 8291949 Sample Depth: 0 - 6"		Sample ID: 37 Susan Taylor LAB Sample ID: 8291950 Sample Depth: 6" - 12"		Sample ID: 37 Susan Taylor LAB Sample ID: 8291951 Sample Depth: 12" - 18"		Sample ID: LAB Sample ID: Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	3.3		0.89	U	0.87	U	NS		NV
Perfluorobutanesulfonate (ng/g)	0.71	U	0.63	U	0.62	U	NS		NV
Perfluorodecanoic acid (ng/g)	2.2		0.25	U	0.29	J	NS		NV
Perfluorododecanoic acid (ng/g)	0.81	J	0.51	U	0.5	U	NS		NV
Perfluoroheptanoic acid (ng/g)	0.43	U	0.38	U	0.37	U	NS		NV
Perfluorohexanesulfonate (ng/g)	0.71	U	0.63	U	0.62	U	NS		NV
Perfluorohexanoic acid (ng/g)	0.29	U	0.25	U	0.25	U	NS		NV
Perfluorononanoic acid (ng/g)	0.81		0.28	J	0.25	U	NS		NV
Perfluorooctanoic acid (ng/g)	5.8		3.5		2.5		NS		300
Perfluorotetradecanoic acid (ng/g)	0.43	U	0.38	U	0.37	U	NS		NV
Perfluorotridecanoic acid (ng/g)	0.86	U	0.76	U	0.75	U	NS		NV
Perfluoroundecanoic acid (ng/g)	0.96		0.38	U	0.37	U	NS		NV
TOC (mg/kg)	34,700		5,930		6,100		NS		NV
Moisture Content (%)	30.0		21.1		19.7		NS		NV
Number of PFCs Detected	6		2		2		NS		
Total PFCs (includes PFOA)	13.88		3.78		2.79		NS		
Total PFOA	5.8		3.5		2.5		NS		

37 SusanTaLAWN 42.91510217 -73.24321635

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
Garden, 37 Susan Taylor Lane, North Bennington, VT 05257
Date Sampled: March 16, 2016

Parameter	Sample ID: 37 Susan Taylor Garden LAB Sample ID: 8291952 Sample Depth: 0 - 6"		Sample ID: 37 Susan Taylor Garden LAB Sample ID: 8291953 Sample Depth: 6" - 12"		Sample ID: 37 Susan Taylor Garden LAB Sample ID: 8291954 Sample Depth: 12" - 18"		Sample ID: 37 Susan Taylor Garden LAB Sample ID: 8291955 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	1.0	U	0.95	U	0.92	U	0.86	U	NV
Perfluorobutanesulfonate (ng/g)	0.73	U	0.68	U	0.65	U	0.62	U	NV
Perfluorodecanoic acid (ng/g)	0.29	U	0.27	U	0.26	U	0.25	U	NV
Perfluorododecanoic acid (ng/g)	0.59	U	0.55	U	0.52	U	0.49	U	NV
Perfluoroheptanoic acid (ng/g)	0.44	U	0.41	U	0.39	U	0.37	U	NV
Perfluorohexanesulfonate (ng/g)	0.73	U	0.68	U	0.65	U	0.62	U	NV
Perfluorohexanoic acid (ng/g)	0.29	U	0.27	U	0.26	U	0.25	U	NV
Perfluorononanoic acid (ng/g)	0.29	U	0.27	U	0.26	U	0.25	U	NV
Perfluorooctanoic acid (ng/g)	8.2		7.3		5.2		2.9		300
Perfluorotetradecanoic acid (ng/g)	0.44	U	0.41	U	0.39	U	0.37	U	NV
Perfluorotridecanoic acid (ng/g)	0.88	U	0.82	U	0.79	U	0.74	U	NV
Perfluoroundecanoic acid (ng/g)	0.44	U	0.41	U	0.39	U	0.37	U	NV
TOC (mg/kg)	48,600		31,900		26,800		12,600		NV
Moisture Content (%)	31.8		26.7		23.6		19.0		NV
Number of PFCs Detected	1		1		1		1		
Total PFCs (includes PFOA)	8.2		7.3		5.2		2.9		
Total PFOA	8.2		7.3		5.2		2.9		

37SusanTAYGAR 42.91536570 -73.24295878

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

C.T. Male Associates

SHALLOW SOIL SAMPLING
16 Wilkie Way, North Bennington, VT 05257
Date Sampled: March 23, 2016

Parameter	Sample ID: 16 Wilkey Way LAB Sample ID: 8301031 Sample Depth: 0 - 6"		Sample ID: 16 Wilkey Way LAB Sample ID: 8301033 Sample Depth: 6" - 12"		Sample ID: 16 Wilkey Way LAB Sample ID: 8301037 Sample Depth: 12" - 18"		Sample ID: 16 Wilkey Way LAB Sample ID: 8301038 Sample Depth: 18" - 24"		VT Soil Screening Value (ng/g)
Perfluoro-octanesulfonate (ng/g)	2 (2.3U)	JB	0.92	U	1.2 (2.1U)	JB	1.4	J	NV
Perfluorobutanesulfonate (ng/g)	0.71	U	0.66	U	0.65	U	0.67	U	NV
Perfluorodecanoic acid (ng/g)	0.62		0.26	U	0.26	U	0.27	U	NV
Perfluorododecanoic acid (ng/g)	0.72	J	0.54	J	0.52	U	0.59	J	NV
Perfluoroheptanoic acid (ng/g)	0.42	U	0.4	U	0.39	U	0.4	U	NV
Perfluorohexanesulfonate (ng/g)	0.71	U	0.66	U	0.65	U	0.67	U	NV
Perfluorohexanoic acid (ng/g)	0.28	U	0.26	U	0.26	U	0.27	U	NV
Perfluorononanoic acid (ng/g)	0.28	U	0.33	J	0.26	U	0.27	U	NV
Perfluorooctanoic acid (ng/g)	2.9		3.3		4.6		5.7		300
Perfluorotetradecanoic acid (ng/g)	0.42	U	0.4	U	0.39	U	0.4	U	NV
Perfluorotridecanoic acid (ng/g)	0.95	J	0.79	U	0.78	U	0.8	U	NV
Perfluoroundecanoic acid (ng/g)	0.42	U	0.4	U	0.39	U	0.4	U	NV
TOC (mg/kg)	25,900		14,500		15,400		6,800		NV
Moisture Content (%)	29.2		24.1		22.9		25.3		NV
Number of PFCs Detected	4		3		1		3		
Total PFCs (includes PFOA)	5.19		4.17		4.6		7.69		
Total PFOA	2.9		3.3		4.6		5.7		

16WilkeyWay 42.91378411 -73.23439431

Notes:
Samples analyzed for PFC's via EPA Method 537 rev. 1.1.
Samples analyzed for Total Organic Compounds (TOC) via Method SM 5310 B modified - 2000.
Samples analyzed for moisture content via Method SM 2540 G - 1997.
VT Soil Screening Value from VTDEC Memorandum dated March 10, 2016, Subject: Perfluorooctanoic acid (PFOA) Soil Screening Value
U - Analyte was not detected at the value indicated
J - estimated value > or = the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
B - Analyte detected in the blank
ng/g = nanograms per gram or parts per billion (ppb)
mg/kg = milligrams per kilogram or parts per million (ppm)
NV - denotes No Value
NA- denotes Not Analyzed

APPENDIX C
FULL ANALYTICAL RESULTS

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/19/2016
Group Number: 1642373
SDG: SGP05
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
6 Royal St 0" to 6" Grab Soil	8294109
6 Royal St 6" to 12" Grab Soil	8294110
6 Royal St 12" to 18" Grab Soil	8294111
6 Royal St 18" to 24" Grab Soil	8294112
22 Asa Way 0" to 6" Grab Soil	8294113
22 Asa Way 6" to 12" Grab Soil	8294114
5 Scarey Lane 0" to 6" Grab Soil	8294115
5 Scarey Lane 6" to 12" Grab Soil	8294116
5 Scarey Lane 12" to 18" Grab Soil	8294117
5 Scarey Lane 18" to 24" Grab Soil	8294118
Auger Rinse #2 Grab Blank Water	8294119
Transport Blank Water	8294120
32 Scarey Lane 0" to 6" Grab Soil	8294121
32 Scarey Lane 6" to 12" Grab Soil	8294122
32 Scarey Lane 12" to 18" Grab Soil	8294123
32 Scarey Lane 18" to 24" Grab Soil	8294124
15 Scarey Lane 0" to 6" Grab Soil	8294125
15 Scarey Lane 0" to 6" MS Grab Soil	8294126
15 Scarey Lane 0" to 6" MSD Grab Soil	8294127
15 Scarey Lane 0" to 6" Dupl Grab Soil	8294128
15 Scarey Lane 6" to 12" Grab Soil	8294129
15 Scarey Lane Duplicate Grab Soil	8294130
765 Murphy Rd 0" to 6" Grab Soil	8294131
765 Murphy Rd 6" to 12" Grab Soil	8294132
765 Murphy Rd 12" to 18" Grab Soil	8294133
765 Murphy Rd 18" to 24" Grab Soil	8294134
Bowl Rinse #2 Grab Blank Water	8294135

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642373

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8294119, 8294120, 8294135

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

Batch #: 16083003 (Sample number(s): 8294119-8294120, 8294135)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16083007 (Sample number(s): 8294129-8294134 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16081049531A (Sample number(s): 8294109-8294118 UNSPK: 8294109 BKG: 8294109)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16081049531B (Sample number(s): 8294121-8294126, 8294128-8294129, 8294131-8294134 UNSPK: 8294125 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16081820004B (Sample number(s): 8294122-8294133 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: 22 Asa Way 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294113
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 10:50 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0505 SDG#: SGP05-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.60		0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	0.82		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	15,100		464	1,390	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 12:02	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 22:54	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: 22 Asa Way 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294114
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 11:00 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0506 SDG#: SGP05-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.55	U	0.55	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.22	U	0.22	0.44	1
14027	Perfluorododecanoic acid	307-55-1	0.44	U	0.44	0.89	1
14027	Perfluoroheptanoic acid	375-85-9	0.33	U	0.33	0.67	1
14027	Perfluorohexanesulfonate	355-46-4	0.55	U	0.55	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.44	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.44	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.78	U	0.78	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.39	J	0.33	0.67	1
14027	Perfluorotetradecanoic acid	376-06-7	0.33	U	0.33	0.89	1
14027	Perfluorotridecanoic acid	72629-94-8	0.67	U	0.67	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.33	U	0.33	0.67	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,520		307	921	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	9.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 12:16	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 23:02	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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/g		ng/g	ng/g
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16083007	Sample number(s): 8294129-8294134			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16081049531A	Sample number(s): 8294109-8294118			
TOC	100	U	100	300
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127								
Perfluorobutanesulfonate	20	19.13			96		70-130		
Perfluorodecanoic acid	20	20.15			101		70-130		
Perfluorododecanoic acid	20	21.22			106		70-130		
Perfluoroheptanoic acid	20	23.61			118		70-130		
Perfluorohexanesulfonate	20	16.81			84		70-130		
Perfluorohexanoic acid	20	18.65			93		70-130		
Perfluorononanoic acid	20	21.45			107		70-130		
Perfluoro-octanesulfonate	20	19.23			96		70-130		
Perfluorooctanoic acid	20	18.42			92		70-130		
Perfluorotetradecanoic acid	20	17.58			88		70-130		
Perfluorotridecanoic acid	20	19.08			95		70-130		
Perfluoroundecanoic acid	20	21.06			105		70-130		
Batch number: 16083007	Sample number(s): 8294129-8294134								
Perfluorobutanesulfonate	20	16.31			82		70-130		
Perfluorodecanoic acid	20	20.04			100		70-130		
Perfluorododecanoic acid	20	19.69			98		70-130		
Perfluoroheptanoic acid	20	23.65			118		70-130		
Perfluorohexanesulfonate	20	21.63			108		70-130		
Perfluorohexanoic acid	20	20.64			103		70-130		
Perfluorononanoic acid	20	17.96			90		70-130		
Perfluoro-octanesulfonate	20	19.76			99		70-130		
Perfluorooctanoic acid	20	19.43			97		70-130		
Perfluorotetradecanoic acid	20	20.15			101		70-130		
Perfluorotridecanoic acid	20	20.23			101		70-130		
Perfluoroundecanoic acid	20	20.17			101		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118								
TOC	5430	5548.1			102		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134								
TOC	5430	5548.1			102		47-143		
	%	%	%	%					
Batch number: 16081820003A	Sample number(s): 8294134								
Moisture	89.5	89.47			100		99-101		
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121								
Moisture	89.5	89.53			100		99-101		
Batch number: 16081820004B	Sample number(s): 8294122-8294133								
Moisture	89.5	89.53			100		99-101		
Moisture	89.5	89.53			100		99-101		
Moisture Duplicate	89.5	89.53			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127 UNSPK: 8294125									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	17.21	84	86	70-130	3	30
Perfluorodecanoic acid	1.51	20	22.99	20	22.62	107	106	70-130	2	30
Perfluorododecanoic acid	0.826	20	21.78	20	22.23	105	107	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	23.26	20	20.21	116	101	70-130	14	30
Perfluorohexanesulfonate	0.50 U	20	19.99	20	18.07	100	90	70-130	10	30
Perfluorohexanoic acid	0.292	20	19.68	20	18.57	97	91	70-130	6	30
Perfluorononanoic acid	0.339	20	21.68	20	21.51	107	106	70-130	1	30
Perfluoro-octanesulfonate	0.70 U	20	14.5	20	15.09	72	75	70-130	4	30
Perfluorooctanoic acid	1.13	20	20.62	20	20.3	97	96	70-130	2	30
Perfluorotetradecanoic acid	0.30 U	20	18.21	20	20.02	91	100	70-130	9	30
Perfluorotridecanoic acid	0.60 U	20	20.28	20	19.02	101	95	70-130	6	30
Perfluoroundecanoic acid	1.03	20	19.61	20	21	93	100	70-130	7	30
Batch number: 16083007	Sample number(s): 8294129-8294134 UNSPK: 8294129									
Perfluorobutanesulfonate	0.50 U	20	20.49	20	15.85	102	79	70-130	26	30
Perfluorodecanoic acid	1.06	20	25.19	20	24.46	121	117	70-130	3	30
Perfluorododecanoic acid	0.478	20	21.26	20	24.16	104	118	70-130	13	30
Perfluoroheptanoic acid	0.30 U	20	23.28	20	25.27	116	126	70-130	8	30
Perfluorohexanesulfonate	0.50 U	20	17.34	20	12.17	87	61*	70-130	35*	30
Perfluorohexanoic acid	0.264	20	21.43	20	20.18	106	100	70-130	6	30
Perfluorononanoic acid	0.388	20	21.82	20	20.99	107	103	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	15.84	20	24.76	79	124	70-130	44*	30
Perfluorooctanoic acid	1.06	20	23.61	20	21.75	113	103	70-130	8	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotetradecanoic acid	0.30 U	20	20.41	20	24.03	102	120	70-130	16	30
Perfluorotridecanoic acid	0.60 U	20	17.55	20	22.39	88	112	70-130	24	30
Perfluoroundecanoic acid	0.457	20	21.24	20	22.78	104	112	70-130	7	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118 UNSPK: 8294109									
TOC	7485.57	41494	54951.59			114		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 UNSPK: 8294125									
TOC	17171.34	60852	89858.01			119		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16081049531A	Sample number(s): 8294109-8294118 BKG: 8294109			
TOC	7485.57	8675.88	15*	7
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 BKG: 8294125			
TOC	17171.34	18766.82	9*	7
	%	%		
Batch number: 16081820003A	Sample number(s): 8294134 BKG: P293163			
Moisture	17.64	17.91	2	5
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121 BKG: 8294121			
Moisture	21.05	20.45	3	5
Batch number: 16081820004B	Sample number(s): 8294122-8294133 BKG: 8294125, P294125			
Moisture	23.09	19.86	15*	5
Moisture	23.09	19.86	15*	5
Moisture Duplicate	23.09	19.86	15*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493356

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground Water	Potable	Surface	NPDES	Other:	Total # of Containers	EPA 537	Moisture	TOC	Remarks
6 Royal St 0" to 6"	3/17/16	0946	✓			✓						3	X	X	X	
6 Royal St 6" to 12"	3/17/16	0952	✓			✓						3	X	X	X	
6 Royal St 12" to 18"	3/17/16	1001	✓			✓						3	X	X	X	
6 Royal St 18" to 24"	3/17/16	1015	✓			✓						3	X	X	X	
22 Asa Way 0" to 6"	3/17/16	1050	✓			✓						2	X	X	X	
22 Asa Way 6" to 12"	3/17/16	1100	✓			✓						2	X	X	X	
LC ~~22 Asa Way 12" to 18"~~			✓			✓										
LC ~~22 Asa Way 18" to 24"~~			✓			✓										
5 Scarey Lane 0" to 6"	3/17/16	1148	✓			✓						2	X	X	X	
5 Scarey Lane 6" to 12"	3/17/16	1200	✓			✓						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1647373 Sample # 8294109-35

COC # 493358

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Potable ☐	Surface ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537						Remarks
																O							
5 Scarey Lane 12" to 18"	3/17/16	1208	X			X							2	X	X	X							
5 Scarey Lane 18" to 24"	3/17/16	1217	X			X							2	X	X	X							
Auger Rinse #2	3/17/16	1222	X					X					2	~~X~~		~~X~~ X							Lab DI Water
Transport Blank	3/17/16	—	X					X					1	~~X~~		~~X~~ X							Lab provided
32 Scarey Lane 0" to 6"	3/17/16	1328	X			X							2	X	X	X							
32 Scarey Lane 6" to 12"	3/17/16	1338	X			X							2	X	X	X							
32 Scarey Lane 12" to 18"	3/17/16	1343	X			X							2	X	X	X							
32 Scarey Lane 18" to 24"	3/17/16	1352	X			X							2	X	X	X							
15 Scarey Lane 0" to 6"	3/17/16	1445	X			X							4	X	X	X							MS/MSD here
15 Scarey Lane 6" to 12"	3/17/16	1500	X			X							2	X	X	X							

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/18/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493359

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Soil ☒	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537							Remarks
																	9							
15 Searey Lane Duplicate	3/17/16	1450	X							X			1	X										
765 Murphy Rd 0" to 6"	3/17/16	1550	X							X			2	X	X	X								
765 Murphy Rd 6" to 12"	3/17/16	1600	X							X			2	X	X	X								
765 Murphy Rd 12" to 18"	3/17/16	1612	X							X			2	X	X	X								
765 Murphy Rd 18" to 24"	3/17/16	1623	X							X			2	X	X	X								
Bowl Rinse #2	3/17/16	1840	X					X					2				X							Lab DI Water

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	07:11
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140007

Group Number(s): 1642373

Client: CT Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/19/2016 9:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 250mL Na2S2O3 Preserved Poly

Unpacked by Patrick Engle (3472) at 10:46 on 03/19/2016

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	DT121	4.8	DT	Wet	Y	Bagged	N
2	DT121	4.5	DT	Wet	Y	Bagged	N
3	DT121	3.1	DT	Wet	Y	Bagged	N
4	DT121	4.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 25, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/18/2016
Group Number: 1641929
SDG: SGP03
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
25 ASA WAY 0"-6" Grab Soil	8291924
25 ASA WAY 6"-12" Grab Soil	8291925
25 ASA WAY 12"-18" Grab Soil	8291926
25 ASA WAY 18"-24" Grab Soil	8291927
59 River Rd Roadside Playgrnd 0"-6" Grab Soil	8291928
59 River Rd Roadside Playgrnd 6"-12" Grab Soil	8291929
59 River Rd Roadside Playgrnd 12"-18" Grab Soil	8291930
59 River Rd Roadside Playgrnd18"-24" Grab Soil	8291931
59 River Rd Slide 0"-6" Grab Soil	8291932
59 River Rd Slide 6"-12" Grab Soil	8291933
59 River Rd Slide MS 6"-12" Grab Soil	8291934
59 River Rd Slide MSD 6"-12" Grab Soil	8291935
North Bennington Trip Blank Water	8291936
59 River Rd Slide Duplicate 6"-12" Grab Soil	8291937
Auger Rinse Blank 1 Water	8291938

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1641929

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8291936, 8291938

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

Batch #: 16081001 (Sample number(s): 8291924-8291935, 8291937 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorobutanesulfonate

Batch #: 16081002 (Sample number(s): 8291936, 8291938)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorotridecanoic acid, Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorotridecanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

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Analysis Report

Sample Description: 25 ASA WAY 0"-6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291924
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 12:20 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

ASA-1 SDG#: SGP03-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.66	U	0.66	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.53	J	0.27	0.53	1
14027	Perfluorododecanoic acid	307-55-1	0.66	U	0.66	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.40	U	0.40	0.80	1
14027	Perfluorohexanesulfonate	355-46-4	0.66	U	0.66	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.27	U	0.27	0.53	1
14027	Perfluorononanoic acid	375-95-1	0.27	U	0.27	0.53	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.93	U	0.93	2.1	1
14027	Perfluorooctanoic acid	335-67-1	0.97		0.40	0.80	1
14027	Perfluorotetradecanoic acid	376-06-7	0.53	U	0.53	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.80	U	0.80	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.40	U	0.40	0.80	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	13,700		961	2,880	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	24.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 18:10	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 05:56	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 21:54	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 25 ASA WAY 6"-12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291925
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 12:37 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

ASA-2 SDG#: SGP03-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.62	U	0.62	0.98	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	U	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.2		0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.49	U	0.49	0.98	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,380		421	1,260	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 20:27	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 06:14	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 22:02	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 25 ASA WAY 12"-18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291926
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 12:50 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

ASA-3 SDG#: SGP03-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	1.3		0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.65	J	0.64	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.45	J	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.63		0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.1	J	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	8.2		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.51	U	0.51	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.53	J	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	24,600		1,110	3,320	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 21:02	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 06:48	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 22:10	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 25 ASA WAY 18"-24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291927
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 13:00 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

ASA-4 SDG#: SGP03-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.61		0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.60	U	0.60	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.60	J	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.65		0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	7.7		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.48	U	0.48	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,870		518	1,550	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 21:19	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 07:05	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 22:18	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/25/2016 10:13

Group Number: 1641929

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/g		ng/g	ng/g
Batch number: 16081001	Sample number(s): 8291924-8291935,8291937			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16081002	Sample number(s): 8291936,8291938			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16080049531A	Sample number(s): 8291924-8291933			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16081001	Sample number(s): 8291924-8291935,8291937								
Perfluorobutanesulfonate	20	17.04			85		70-130		
Perfluorodecanoic acid	20	20.74			104		70-130		
Perfluorododecanoic acid	20	20.21			101		70-130		

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/25/2016 10:13

Group Number: 1641929

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluoroheptanoic acid	20	19.15			96		70-130		
Perfluorohexanesulfonate	20	18.24			91		70-130		
Perfluorohexanoic acid	20	19.55			98		70-130		
Perfluorononanoic acid	20	20.21			101		70-130		
Perfluoro-octanesulfonate	20	19.18			96		70-130		
Perfluorooctanoic acid	20	19.68			98		70-130		
Perfluorotetradecanoic acid	20	20.32			102		70-130		
Perfluorotridecanoic acid	20	19.76			99		70-130		
Perfluoroundecanoic acid	20	19.78			99		70-130		
	ng/l	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16081002	Sample number(s): 8291936,8291938								
Perfluorooctanoic acid	200	141.82	200	161.69	71	81	70-130	13	30
Perfluorononanoic acid	200	141.05	200	175.73	71	88	70-130	22	30
Perfluorodecanoic acid	200	144.05	200	177.93	72	89	70-130	21	30
Perfluoroundecanoic acid	200	143.61	200	189.21	72	95	70-130	27	30
Perfluorododecanoic acid	200	145.69	200	190.83	73	95	70-130	27	30
Perfluorotridecanoic acid	200	136.9	200	189.14	68*	95	70-130	32*	30
Perfluorotetradecanoic acid	200	147.28	200	189.55	74	95	70-130	25	30
Perfluorohexanoic acid	200	175.57	200	191.92	88	96	70-130	9	30
Perfluoroheptanoic acid	200	151.38	200	188.2	76	94	70-130	22	30
Perfluorobutanesulfonate	200	126.54	200	168.03	63*	84	70-130	28	30
Perfluorohexanesulfonate	200	122.71	200	170.94	61*	85	70-130	33*	30
Perfluoro-octanesulfonate	200	129.69	200	180.89	65*	90	70-130	33*	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16080049531A	Sample number(s): 8291924-8291933								
TOC	5430	4492.52			83		47-143		
	%	**%**	**%**	**%**					
Batch number: 16078820006B	Sample number(s): 8291924-8291935,8291937								
Moisture	89.5	89.43			100		99-101		
Moisture	89.5	89.43			100		99-101		
Moisture Duplicate	89.5	89.43			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16081001	Sample number(s): 8291924-8291935,8291937 UNSPK: 8291933									
Perfluorobutanesulfonate	0.50 U	20	15.84	20	13.36	79	67*	70-130	17	30
Perfluorodecanoic acid	0.20 U	20	19.11	20	18.23	96	91	70-130	5	30
Perfluorododecanoic acid	0.40 U	20	20.47	20	19.07	102	95	70-130	7	30
Perfluoroheptanoic acid	0.30 U	20	18.55	20	18.77	93	94	70-130	1	30
Perfluorohexanesulfonate	0.50 U	20	20.38	20	15.02	102	75	70-130	30	30
Perfluorohexanoic acid	0.20 U	20	20.07	20	18.03	100	90	70-130	11	30
Perfluorononanoic acid	0.20 U	20	20.41	20	18.2	102	91	70-130	11	30
Perfluoro-octanesulfonate	0.70 U	20	20.52	20	18.35	103	92	70-130	11	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/25/2016 10:13

Group Number: 1641929

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorooctanoic acid	0.30 U	20	18.31	20	17.35	92	87	70-130	5	30
Perfluorotetradecanoic acid	0.30 U	20	20.49	20	21.08	102	105	70-130	3	30
Perfluorotridecanoic acid	0.60 U	20	16.43	20	19.29	82	96	70-130	16	30
Perfluoroundecanoic acid	0.30 U	20	18.68	20	20.18	93	101	70-130	8	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16080049531A	Sample number(s): 8291924-8291933 UNSPK: 8291933									
TOC	5548.25	55556	77462.96			129		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16080049531A	Sample number(s): 8291924-8291933 BKG: 8291933			
TOC	5548.25	5243.51	6 (1)	7
	%	%		
Batch number: 16078820006B	Sample number(s): 8291924-8291935,8291937 BKG: 8291933, P291933			
Moisture	11.63	11.86	2	5
Moisture	11.63	11.86	2	5
Moisture Duplicate	11.63	11.86	2	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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1 of 2

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1641929 Sample # 8291924-38

COC # 493352

Client Information

Client: CT Male

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16-6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other:	Total # of Containers	EPA 537	Moisture % and TOC	Remarks
25 ASA WAY 0"-6"	3/16/16	12:20	✓		✓							2	1	1	
25 ASA WAY 6"-12"	3/16/16	12:37	✓		✓							2	1	1	
25 ASA WAY 12"-18"	3/16/16	12:50	✓		✓							2	1	1	
25 ASA WAY 18"-24"	3/16/16	13:00	✓		✓							2	1	1	
59 River Rd Road Side Pick 0"-6"	3/16/16	14:00	✓		✓							2	1	1	Road side playgrnd
59 River Rd " 6"-12"	3/16/16	14:02	✓		✓							2	1	1	"
59 River Rd " 12"-18"	3/16/16	14:10	✓		✓							2	1	1	"
59 River Rd " 18-24"	3/16/16	14:13	✓		✓							2	1	1	"
59 River Rd ~~Next to playgrnd~~ Slide LC 0"-6"	3/16/16	14:47	✓		✓							2	1	1	LC ~~Next to playgrnd~~ Slide
59 River Rd Slide LC 6"-12"	3/16/16	14:55	✓		✓							2	1	1	LC Slide

Analysis Requested / **Preservation Codes**

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day

E-mail address: KMoline@ctmale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/17/16	07:33	Jeff Mayo	3/17/16	0733

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS FedEx X Other

Temperature upon receipt 2.2 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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2 of 2

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1641929 Sample # 8291924-38

COC # 493353

Client Information

Client: CT Male

Acct. #:

Project Name/#: N Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Camera

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

Matrix

Sediment ☐ Soil ☐ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Water ☐ Other: ____

Analysis Requested / Preservation Codes

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	EPA 537	Moisture % and TOC	Remarks
~~59 River Rd Next to Daycare~~ 12"-18"	~~3/16/16~~		✓		~~2~~	~~1~~	~~1~~	~~LC~~
~~59 River Rd Next to Daycare~~ 18"-24"								~~LC~~
~~59 River Rd Slide 12"-18"~~	~~3/16/16~~		✓		~~2~~	~~1~~	~~1~~	~~Slide LC~~
~~59 River Rd Slide 18"-24"~~	~~3/16/16~~		✓		~~2~~	~~1~~	~~1~~	~~Slide LC~~
59 River Rd Slide MSD 6"-12"	3/16/16	14:55	✓		1	1		
North Bennington Trip Blank	3/16/16							Lab Provided
59 River Rd Slide MS 6"-12"	3/16/16	14:55	✓		1	1		
59 River Rd Slide Duplicate Sample 6"-12"	3/16/16	14:55	✓		1	1		
Auger Rinse Blank 1	3/16/16	15:05			2	2		Lab DI

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day

E-mail address: K.moline@ctmale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Camera	03/17/16	07:33	[illegible]	03/17/16	0733
			[illegible]	3/18/16	0930

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2-2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 139859

Group Number(s): 1641929

Client: CT Male

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/18/2016 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	NaS2O4
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 10:22 on 03/18/2016

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	DT146	2.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/22/2016
Group Number: 1642988
SDG: SGP07
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Asa Way Vac Lot 0" to 6" Grab Soil	8297354
Asa Way Vac Lot 6" to 12" Grab Soil	8297355
Asa Way Vac Lot 12" to 18" Grab Soil	8297356
Asa Way Vac Lot 18" to 24" Grab Soil	8297357
Auger Rinse #4 Grab Blank Water	8297358
Bowl Rinse #4 Grab Blank Water	8297359
Transport Blank 032116 Water	8297360
26 Susan Taylor 0" to 6" Grab Soil	8297361
26 Susan Taylor 0" to 6" MS Grab Soil	8297362
26 Susan Taylor 0" to 6" MSD Grab Soil	8297363
26 Susan Taylor 0" to 6" Dupl Grab Soil	8297364
26 Susan Taylor Duplicate Grab Soil	8297365
26 Susan Taylor 6" to 12" Grab Soil	8297366
26 Susan Taylor 12" to 18" Grab Soil	8297367
26 Susan Taylor 18" to 24" Grab Soil	8297368
10 Scarey Ln 0" to 6" Grab Soil	8297369
10 Scarey Ln 6" to 12" Grab Soil	8297370
10 Scarey Ln 12" to 18" Grab Soil	8297371
10 Scarey Ln 18" to 24" Grab Soil	8297372
26 Scarey Ln 0" to 6" Grab Soil	8297373
26 Scarey Ln 6" to 12" Grab Soil	8297374
8 Polygraphic Ln 0" to 6" Grab Soil	8297375

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642988

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8297358, 8297359, 8297360

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

Batch #: 16083003 (Sample number(s): 8297358-8297360)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084007 (Sample number(s): 8297354-8297357, 8297361-8297363, 8297365-8297375 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16084949631A (Sample number(s): 8297355-8297357 UNSPK: P294196 BKG: P294196)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16084949631B (Sample number(s): 8297354, 8297361-8297362, 8297364, 8297366-8297372 UNSPK: 8297361 BKG: 8297361)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16083820002A (Sample number(s): 8297354-8297357 BKG: 8297355)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

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Analysis Report

Sample Description: Asa Way Vac Lot 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297354
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 09:07 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0701 SDG#: SGP07-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.67	U	0.67	2.1	1
14027	Perfluorodecanoic acid	335-76-2	1.0		0.27	0.54	1
14027	Perfluorododecanoic acid	307-55-1	0.54	U	0.54	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.66	J	0.40	0.80	1
14027	Perfluorohexanesulfonate	355-46-4	0.67	U	0.67	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.63		0.27	0.54	1
14027	Perfluorononanoic acid	375-95-1	0.63		0.27	0.54	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.2	J	0.94	2.1	1
14027	Perfluorooctanoic acid	335-67-1	2.9		0.40	0.80	1
14027	Perfluorotetradecanoic acid	376-06-7	0.40	U	0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.80	U	0.80	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.44	J	0.40	0.80	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,880		564	1,690	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	25.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 07:00	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 21:56	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820002A	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Asa Way Vac Lot 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297355
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 09:13 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0702 SDG#: SGP07-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.59	J	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.94		0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.85	U	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	4.1		0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	0.73	U	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	4,850		228	684	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 07:14	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 15:15	Fejoy Philip	1
00111	Moisture	SM 2540 G-1997	1	16083820002A	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Asa Way Vac Lot 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297356
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 09:25 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0703 SDG#: SGP07-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.93	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.70	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.65		0.23	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.81	U	0.81	1.9	1
14027	Perfluorooctanoic acid	335-67-1	2.0		0.35	0.70	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.93	1
14027	Perfluorotridecanoic acid	72629-94-8	0.70	U	0.70	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.70	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,040		226	678	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	14.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 07:28	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 15:23	Fejoy Philip	1
00111	Moisture	SM 2540 G-1997	1	16083820002A	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Asa Way Vac Lot 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297357
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 09:31 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0704 SDG#: SGP07-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.2		0.35	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	819		236	708	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 07:42	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 15:30	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820002A	03/23/2016 10:48	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

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/g		ng/g	ng/g
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8297358-8297360			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16084949631A	Sample number(s): 8297355-8297357			
TOC	100	U	100	300
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372			
TOC	100	U	100	300
Batch number: 16084949632A	Sample number(s): 8297373-8297375			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375								
Perfluorobutanesulfonate	20	17.26			86		70-130		
Perfluorodecanoic acid	20	19.11			96		70-130		
Perfluorododecanoic acid	20	18.17			91		70-130		
Perfluoroheptanoic acid	20	18.61			93		70-130		
Perfluorohexanesulfonate	20	14.91			75		70-130		
Perfluorohexanoic acid	20	16.77			84		70-130		
Perfluorononanoic acid	20	17.99			90		70-130		
Perfluoro-octanesulfonate	20	20.89			104		70-130		
Perfluorooctanoic acid	20	16.59			83		70-130		
Perfluorotetradecanoic acid	20	19.73			99		70-130		
Perfluorotridecanoic acid	20	15.69			78		70-130		
Perfluoroundecanoic acid	20	17.08			85		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8297358-8297360								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375								
TOC	5430	4448.16			82		47-143		
	%	%	%	%					
Batch number: 16083820002A	Sample number(s): 8297354-8297357								
Moisture	89.5	89.47			100		99-101		
Batch number: 16083820002B	Sample number(s): 8297361-8297375								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375 UNSPK: 8297361									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	18.36	84	92	70-130	9	30
Perfluorodecanoic acid	0.468	20	20.97	20	19.73	103	96	70-130	6	30
Perfluorododecanoic acid	0.40 U	20	18.68	20	18.77	93	94	70-130	0	30
Perfluoroheptanoic acid	0.30 U	20	19.82	20	20.51	99	103	70-130	3	30
Perfluorohexanesulfonate	0.50 U	20	24.58	20	20.13	123	101	70-130	20	30
Perfluorohexanoic acid	0.20 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorononanoic acid	0.20 U	20	17.45	20	18.3	87	91	70-130	5	30
Perfluoro-octanesulfonate	0.70 U	20	25.38	20	14.58	127	73	70-130	54*	30
Perfluorooctanoic acid	0.511	20	17.68	20	19.66	86	96	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	20.6	20	16.83	103	84	70-130	20	30
Perfluorotridecanoic acid	0.60 U	20	16.16	20	14.25	81	71	70-130	13	30
Perfluoroundecanoic acid	0.312	20	18.17	20	17.26	89	85	70-130	5	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357 UNSPK: P294196									
TOC	5817.55	14790	19743.46			94		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 UNSPK: 8297361									
TOC	5512	10007	12605.07			71		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375 UNSPK: P297411									
TOC	14599.68	13593	24218.4			71		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16084949631A	Sample number(s): 8297355-8297357 BKG: P294196			
TOC	5817.55	3166.37	59*	7
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 BKG: 8297361			
TOC	5512	6002.81	9*	7
Batch number: 16084949632A	Sample number(s): 8297373-8297375 BKG: P297411			
TOC	14599.68	15419.66	5	7
	%	%		
Batch number: 16083820002A	Sample number(s): 8297354-8297357 BKG: 8297355			
Moisture	17.48	16.51	6*	5
Batch number: 16083820002B	Sample number(s): 8297361-8297375 BKG: 8297361, P297361			
Moisture	19.48	18.8	4	5
Moisture	19.48	18.8	4	5
Moisture Duplicate	19.48	18.8	4	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 3719 Group # 1642988 Sample # 8297354-75

COC # 493463

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: UT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Surface ☐	Potable ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
													Preservation Codes				0							
Asa Way Vacant Lot 0" to 6"	3/21/16	0907	X			X							2	X	X	X								
Asa Way Vacant Lot 6" to 12"	3/21/16	0913	X			X							2	X	X	X								
Asa Way Vacant Lot 12" to 18"	3/21/16	0925	X			X							2	X	X	X								
Asa Way Vacant Lot 18" to 24"	3/21/16	0931	X			X							2	X	X	X								
LC ~~Asa Way Vacant Lot~~																								
Auger Rinse # 4	3/21/16	0938	X					X					2				X							Lab DI Water
Bowl Rinse # 4	3/21/16	0935	X					X					2				X							Lab DI Water
Transport Blank 032116	3/16/16	—	X					X				LC	1				X							Lab Supplied
26 Susan Taylor 0" to 6"	3/21/16	1005	X			X							4	X	X	X								MS/MSD here
26 Susan Taylor Duplicate	3/21/16	1010	X			X							1	X										

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/21/16	1655			
			Kristen Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____

Temperature upon receipt 4.5 / 5.4 °C

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Remarks

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1642988 Sample # 8297354-75

COC # 493361

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
26 Susan Taylor 6" to 12"	3/21/16	1013	X			X						2	X	X	X	
26 Susan Taylor 12" to 18"	3/21/16	1020	X			X						2	X	X	X	
26 Susan Taylor 18" to 24"	3/21/16	1026	X			X						2	X	X	X	
10 Scarey Ln 0" to 6"	3/21/16	1055	X			X						2	X	X	X	
10 Scarey Ln 6" to 12"	3/21/16	1101	X			X						2	X	X	X	
10 Scarey Ln 12" to 18"	3/21/16	1114	X			X						2	X	X	X	
10 Scarey Ln 18" to 24"	3/21/16	1125	X			X						2	X	X	X	
26 Scarey Ln WH 0" to 6"	3/21/16	1231	X			X						2	X	X	X	
26 Scarey Ln WH 6" to 12"	3/21/16	1240	X			X						2	X	X	X	
8 Polygraphic Ln 0" to 6"	3/21/16	1333	X			X						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/21/16	1655			
			Krista Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS FedEx X Other

Temperature upon receipt 4.5 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140176

Group Number(s): 1642988

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/22/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:32 on 03/22/2016

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	DT146	5.1	DT	Wet	Y	Bagged	N
2	DT146	4.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 28, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/19/2016
Group Number: 1642382
SDG: SGP06
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Bennington College Garden 0" to 6" Grab Soil	8294171
Bennington College Garden 6" to 12" Grab Soil	8294172
Bennington College Garden 12" to 18" Grab Soil	8294173
Bennington College Garden 18" to 24" Grab Soil	8294174
Auger Rinse #3 Grab Blank Water	8294175
Bowl Rinse #3 Grab Blank Water	8294176
Transport Blank 031816 Blank Water	8294177
B. College Adj to Garden 0" to 6" Grab Soil	8294178
B. College Adj to Garden 6" to 12" Grab Soil	8294179
B. College Adj to Garden Duplicate Grab Soil	8294180
B. College Adj to Garden 12" to 18" Grab Soil	8294181
B. College Adj to Garden 12" to 18" MS Grab Soil	8294182
B. College Adj to Garden 12" to 18" MSD Grab Soil	8294183
B. College Adj to Garden 12" to 18" Dupl Grab Soil	8294184
B. College Adj to Garden 18" to 24" Grab Soil	8294185
B. College Adj to Soccer Field 0" to 6" Grab Soil	8294186
B. College Adj to Soccer Field 6" to 12" Grab Soil	8294187
B. College Adj to Soccer Field 12" to 18" Grab	8294188
B. College Adj to Soccer Field 18" to 24" Grab	8294189
Jennings Meadow Trail 0" to 6" Grab Soil	8294190
Jennings Meadow Trail 6" to 12" Grab Soil	8294191
Jennings Meadow Trail 12" to 18" Grab Soil	8294192
Jennings Meadow Trail 18" to 24" Grab Soil	8294193
9 School St SMPG 0" to 6" Grab Soil	8294194
9 School St SMPG 6" to 12" Grab Soil	8294195
9 School St SMPG 12" to 18" Grab Soil	8294196
9 School St SMPG 18" to 24" Grab Soil	8294197
9 School St LGPG 0" to 6" Grab Soil	8294198
9 School St LGPG 6" to 12" Grab Soil	8294199
9 School St LGPG 12" to 18" Grab Soil	8294200
9 School St LGPG 18" to 24" Grab Soil	8294201

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642382

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8294175, 8294176, 8294177

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

Batch #: 16083003 (Sample number(s): 8294175-8294177)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084002 (Sample number(s): 8294171-8294174, 8294178-8294183, 8294185-8294196 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

Batch #: 16084003 (Sample number(s): 8294197-8294201 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Sample #s: 8294198, 8294199, 8294200, 8294201

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

Batch #: 16083949631A (Sample number(s): 8294171-8294174, 8294178-8294179, 8294181-8294182, 8294184-8294187 UNSPK: 8294182 BKG: 8294182)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16083949631B (Sample number(s): 8294188-8294195 UNSPK: 8294188 BKG: 8294188)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16084949631A (Sample number(s): 8294196-8294201 UNSPK: 8294196 BKG: 8294196)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16081820005B (Sample number(s): 8294185-8294196 BKG: 8294189)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

Batch #: 16081820006B (Sample number(s): 8294197-8294201 BKG: P294812)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

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Analysis Report

Sample Description: Bennington College Garden 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294171
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 09:15 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-601 SDG#: SGP06-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	2.0	J	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.32	J	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.1		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	12,900		252	756	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 03:56	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 21:30	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: Bennington College Garden 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294172
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 09:24 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-602 SDG#: SGP06-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.95	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.65	J	0.36	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.95	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,660		246	739	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 04:10	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 21:43	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: Bennington College Garden 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294173
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 09:33 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-603 SDG#: SGP06-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.46	U	0.46	0.93	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.70	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.81	U	0.81	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.38	J	0.35	0.70	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.93	1
14027	Perfluorotridecanoic acid	72629-94-8	0.70	U	0.70	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.70	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,490		210	631	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	13.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 04:24	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 22:01	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: Bennington College Garden 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294174
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 09:44 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-604 SDG#: SGP06-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.67	J	0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,630		246	738	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 04:38	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 22:10	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: B. College Adj to Garden 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294178
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 10:15 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-608 SDG#: SGP06-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	2.3		0.68	2.2	1
14027	Perfluorodecanoic acid	335-76-2	0.32	J	0.27	0.55	1
14027	Perfluorododecanoic acid	307-55-1	0.55	U	0.55	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.41	U	0.41	0.82	1
14027	Perfluorohexanesulfonate	355-46-4	0.68	U	0.68	2.2	1
14027	Perfluorohexanoic acid	307-24-4	0.27	U	0.27	0.55	1
14027	Perfluorononanoic acid	375-95-1	0.27	U	0.27	0.55	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.8		0.95	2.2	1
14027	Perfluorooctanoic acid	335-67-1	2.9		0.41	0.82	1
14027	Perfluorotetradecanoic acid	376-06-7	0.41	U	0.41	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.82	U	0.82	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.41	U	0.41	0.82	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	19,000		457	1,370	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	26.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 04:53	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/24/2016 02:33	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: B. College Adj to Garden 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294179
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 10:27 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-609 SDG#: SGP06-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	4.9		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	15,400		460	1,380	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 05:07	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/24/2016 02:41	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: B. College Adj to Garden Duplicate Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294180
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 10:20 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-610 SDG#: SGP06-10FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.52	U	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.77	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.40	J	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.90	U	0.90	2.1	1
14027	Perfluorooctanoic acid	335-67-1	4.8		0.39	0.77	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.77	U	0.77	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.77	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	22.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 05:21	Jason W Knight	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

Sample Description: B. College Adj to Garden 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294181
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 10:41 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-611 SDG#: SGP06-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	2.8		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	5,750		236	709	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 02:58	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 22:42	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: B. College Adj to Garden 12" to 18" MS Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294182
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 10:41 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-611 SDG#: SGP06-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	19	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	25	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	23	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	23	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	23	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	24	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	22	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	28	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	24	0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	22	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	19	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	23	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	10,000	204	612	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	16.7	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 03:13	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 22:57	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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Analysis Report

Sample Description: B. College Adj to Garden 12" to 18" MSD Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294183
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 10:41 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-611 SDG#: SGP06-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	19	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	23	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	23	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	23	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	22	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	22	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	24	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	19	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	25	0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	22	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	20	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	22	0.36	0.72	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	16.7	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 03:27	Jason W Knight	1
00118	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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Analysis Report

Sample Description: B. College Adj to Garden 12" to 18" Dupl Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294184
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 10:41 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-611 SDG#: SGP06-11DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 5310 B modified-2000**		mg/kg	mg/kg	mg/kg	
02079	TOC	n.a.	4,210	236	709	1
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00118	Moisture	n.a.	16.7	0.50	0.50	1
00121	Moisture Duplicate	n.a.	17.3	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 23:32	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

Sample Description: B. College Adj to Garden 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294185
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 10:51 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-612 SDG#: SGP06-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.95	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.8		0.36	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.95	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,690		207	620	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 05:35	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 23:40	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: B. College Adj to Soccer Field 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294186
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 11:27 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-613 SDG#: SGP06-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.35	J	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	3.6		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	24,700		546	1,640	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 05:50	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/24/2016 03:00	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: B. College Adj to Soccer Field 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294187
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 11:35 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-614 SDG#: SGP06-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.52		0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.85	U	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	3.6		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,520		240	721	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 06:18	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/24/2016 00:02	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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Analysis Report

Sample Description: B. College Adj to Soccer Field 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294188
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 11:45 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-615 SDG#: SGP06-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.42	J	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	3.0		0.35	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,520		232	697	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 06:32	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631B	03/24/2016 00:11	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

Sample Description: B. College Adj to Soccer Field 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294189
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 11:56 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-616 SDG#: SGP06-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.46	U	0.46	0.93	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.81	U	0.81	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.7		0.35	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.93	1
14027	Perfluorotridecanoic acid	72629-94-8	0.69	U	0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.69	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,270		227	681	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	13.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 06:46	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631B	03/24/2016 00:47	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: Jennings Meadow Trail 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294190
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 12:37 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-617 SDG#: SGP06-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.68	U	0.68	2.2	1
14027	Perfluorodecanoic acid	335-76-2	0.27	U	0.27	0.55	1
14027	Perfluorododecanoic acid	307-55-1	0.55	U	0.55	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.41	U	0.41	0.82	1
14027	Perfluorohexanesulfonate	355-46-4	0.68	U	0.68	2.2	1
14027	Perfluorohexanoic acid	307-24-4	0.27	U	0.27	0.55	1
14027	Perfluorononanoic acid	375-95-1	0.27	U	0.27	0.55	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.96	U	0.96	2.2	1
14027	Perfluorooctanoic acid	335-67-1	2.1		0.41	0.82	1
14027	Perfluorotetradecanoic acid	376-06-7	0.41	U	0.41	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.82	U	0.82	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.41	U	0.41	0.82	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	17,300		624	1,870	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	26.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 07:01	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631B	03/24/2016 03:08	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

Sample Description: Jennings Meadow Trail 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294191
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 12:45 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-618 SDG#: SGP06-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.8		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	10,700		254	762	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 07:15	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631B	03/24/2016 01:10	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: Jennings Meadow Trail 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294192
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 12:57 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-619 SDG#: SGP06-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	U	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.6		0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,030		256	769	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 07:29	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631B	03/24/2016 01:41	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: Jennings Meadow Trail 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294193
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 13:05 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-620 SDG#: SGP06-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	0.50	U	0.50	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.37	J	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.87	U	0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.3		0.37	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.75	U	0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	4,290		233	698	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 07:43	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631B	03/24/2016 01:50	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 14:03

Group Number: 1642382

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/g		ng/g	ng/g
Batch number: 16084002	Sample number(s): 8294171-8294174,8294178-8294183,8294185-8294196			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16084003	Sample number(s): 8294197-8294201			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8294175-8294177			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 14:03

Group Number: 1642382

Analysis Name	Result mg/kg		MDL** mg/kg	LOQ mg/kg
Batch number: 16083949631A	Sample number(s): 8294171-8294174,8294178-8294179,8294181-8294182,8294184-8294187			
TOC	100	U	100	300
Batch number: 16083949631B	Sample number(s): 8294188-8294195			
TOC	100	U	100	300
Batch number: 16084949631A	Sample number(s): 8294196-8294201			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084002	Sample number(s): 8294171-8294174,8294178-8294183,8294185-8294196								
Perfluorobutanesulfonate	20	16.8			84		70-130		
Perfluorodecanoic acid	20	19.03			95		70-130		
Perfluorododecanoic acid	20	16.65			83		70-130		
Perfluoroheptanoic acid	20	19.14			96		70-130		
Perfluorohexanesulfonate	20	18.53			93		70-130		
Perfluorohexanoic acid	20	17.33			87		70-130		
Perfluorononanoic acid	20	19.25			96		70-130		
Perfluoro-octanesulfonate	20	17.19			86		70-130		
Perfluorooctanoic acid	20	17.42			87		70-130		
Perfluorotetradecanoic acid	20	18.98			95		70-130		
Perfluorotridecanoic acid	20	17.94			90		70-130		
Perfluoroundecanoic acid	20	18.53			93		70-130		
Batch number: 16084003	Sample number(s): 8294197-8294201								
Perfluorobutanesulfonate	20	22.5			112		70-130		
Perfluorodecanoic acid	20	19.36			97		70-130		
Perfluorododecanoic acid	20	17.06			85		70-130		
Perfluoroheptanoic acid	20	19.41			97		70-130		
Perfluorohexanesulfonate	20	15.36			77		70-130		
Perfluorohexanoic acid	20	18.81			94		70-130		
Perfluorononanoic acid	20	17.44			87		70-130		
Perfluoro-octanesulfonate	20	20.08			100		70-130		
Perfluorooctanoic acid	20	17.81			89		70-130		
Perfluorotetradecanoic acid	20	19.71			99		70-130		
Perfluorotridecanoic acid	20	15.77			79		70-130		
Perfluoroundecanoic acid	20	18.32			92		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8294175-8294177								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 14:03

Group Number: 1642382

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
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16083949631A	Sample number(s): 8294171-8294174,8294178-8294179,8294181-8294182,8294184-8294187								
TOC	5430	5104.76			94		47-143		
Batch number: 16083949631B	Sample number(s): 8294188-8294195								
TOC	5430	5104.76			94		47-143		
Batch number: 16084949631A	Sample number(s): 8294196-8294201								
TOC	5430	2743.93			51		47-143		
	%	%	%	%					
Batch number: 16081820005A	Sample number(s): 8294171-8294174,8294178-8294184								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		
Batch number: 16081820005B	Sample number(s): 8294185-8294196								
Moisture	89.5	89.47			100		99-101		
Batch number: 16081820006B	Sample number(s): 8294197-8294201								
Moisture	89.5	89.42			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084002	Sample number(s): 8294171-8294174,8294178-8294183,8294185-8294196 UNSPK: 8294181										
Perfluorobutanesulfonate	0.50	U	20	16.03	20	19.51	80	98	70-130	20	30
Perfluorodecanoic acid	0.20	U	20	20.49	20	19.51	102	98	70-130	5	30
Perfluorododecanoic acid	0.40	U	20	19.07	20	19.29	95	96	70-130	1	30
Perfluoroheptanoic acid	0.30	U	20	19.43	20	19.19	97	96	70-130	1	30
Perfluorohexanesulfonate	0.50	U	20	19.15	20	18.08	96	90	70-130	6	30
Perfluorohexanoic acid	0.20	U	20	19.71	20	18.6	99	93	70-130	6	30
Perfluorononanoic acid	0.20	U	20	18	20	19.67	90	98	70-130	9	30
Perfluoro-octanesulfonate	0.70	U	20	23.26	20	15.7	116	78	70-130	39*	30
Perfluorooctanoic acid	2.31		20	19.69	20	20.69	87	92	70-130	5	30
Perfluorotetradecanoic acid	0.30	U	20	18.7	20	18.25	94	91	70-130	2	30
Perfluorotridecanoic acid	0.60	U	20	16.19	20	16.46	81	82	70-130	2	30
Perfluoroundecanoic acid	0.30	U	20	19.32	20	17.93	97	90	70-130	7	30
Batch number: 16084003	Sample number(s): 8294197-8294201 UNSPK: 8294197										
Perfluorobutanesulfonate	0.50	U	20	16.61	20	16.42	83	82	70-130	1	30
Perfluorodecanoic acid	0.20	U	20	20.32	20	17.91	102	90	70-130	13	30
Perfluorododecanoic acid	0.40	U	20	18.77	20	17.88	94	89	70-130	5	30
Perfluoroheptanoic acid	0.30	U	20	18.49	20	20.91	92	105	70-130	12	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 14:03

Group Number: 1642382

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorohexanesulfonate	0.50	U	20	16.29	20	23	81	115	70-130	34*	30
Perfluorohexanoic acid	0.20	U	20	17.42	20	19.44	87	97	70-130	11	30
Perfluorononanoic acid	0.20	U	20	19.28	20	19.01	96	95	70-130	1	30
Perfluoro-octanesulfonate	0.70	U	20	17.23	20	15.74	86	79	70-130	9	30
Perfluorooctanoic acid	0.30	U	20	18.63	20	17.23	93	86	70-130	8	30
Perfluorotetradecanoic acid	0.30	U	20	17.4	20	16.98	87	85	70-130	2	30
Perfluorotridecanoic acid	0.60	U	20	17.77	20	15.47	89	77	70-130	14	30
Perfluoroundecanoic acid	0.30	U	20	18	20	21.5	90	107	70-130	18	30
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16083949631A	Sample number(s): 8294171-8294174,8294178-8294179,8294181-8294182,8294184-8294187 UNSPK: 8294182										
TOC	4792.9		5110	8332.48			69		47-143		
Batch number: 16083949631B	Sample number(s): 8294188-8294195 UNSPK: 8294188										
TOC	5525.38		6059	11585.54			100		47-143		
Batch number: 16084949631A	Sample number(s): 8294196-8294201 UNSPK: 8294196										
TOC	5817.55		14790	19743.46			94		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16083949631A	Sample number(s): 8294171-8294174,8294178-8294179,8294181-8294182,8294184-8294187 BKG: 8294182			
TOC	4792.9	3503.05	31*	7
Batch number: 16083949631B	Sample number(s): 8294188-8294195 BKG: 8294188			
TOC	5525.38	3961.36	33*	7
Batch number: 16084949631A	Sample number(s): 8294196-8294201 BKG: 8294196			
TOC	5817.55	3166.37	59*	7
	%	%		
Batch number: 16081820005A	Sample number(s): 8294171-8294174,8294178-8294184 BKG: 8294181, P294181			
Moisture	16.7	17.3	4	5
Moisture	16.7	17.3	4	5
Moisture Duplicate	16.7	17.3	4	5
Batch number: 16081820005B	Sample number(s): 8294185-8294196 BKG: 8294189			
Moisture	13.64	11.48	17*	5
Batch number: 16081820006B	Sample number(s): 8294197-8294201 BKG: P294812			
Moisture	47.63	56.5	17*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642382 Sample # 8294171-201

COC # 492485

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment / Soil	Ground / Potable / Water	Surface / NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
													0							
Bennington College Garden 0" to 6"	3/18/16	0915	X		X				2	X	X	X								
Bennington College Garden 6" to 12"		0924	X		X				2	X	X	X								
Bennington College Garden 12" to 18"		0933	X		X				2	X	X	X								
Bennington College Garden 18" to 24"		0944	X		X				2	X	X	X								
Auger Rinse #3		0950	X			X			2				X							Lab Provided DI water
Bowl Rinse #3		0955	X			X			2				X							Lab Provided DI water
Transport Blank 031816	3/16/16	—	X			X			1				X							Lab Supplied
B. College Adj. to Garden 0" to 6"	3/18/16	1015	X		X				2	X	X	X								
B. College Adj. to Garden 6" to 12"	3/18/16	1027	X		X				2	X	X	X								
B. College Adj. to Garden Duplicate	3/18/16	1020	X		X				1	X										

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/18/16	1650			

Relinquished by	Date	Time	Received by	Date	Time
				3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1647382 Sample # 8294171-201

COC # 492486

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
B. College Adj to Garden 12" to 18"	3/18/16	1041	X			X						4	X	X	X	MS/MSD here
B. College Adj to Garden 18" to 24"	3/18/16	1051	X			X						2	X	X	X	
B. College Adj to Soccer field 0" to 6"	3/18/16	1127	X			X						2	X	X	X	
B. College Adj to Soccer field 6" to 12"	3/18/16	1135	X			X						2	X	X	X	
B. College Adj to Soccer field 12" to 18"	3/18/16	1145	X			X						2	X	X	X	
B. College Adj to Soccer field 18" to 24"	3/18/16	1156	X			X						2	X	X	X	
Jennings Meadow Trail 0" to 6"	3/18/16	1237	X			X						2	X	X	X	
Jennings Meadow Trail 6" to 12"	3/18/16	1245	X			X						2	X	X	X	
Jennings Meadow Trail 12" to 18"	3/18/16	1257	X			X						2	X	X	X	
Jennings Meadow Trail 18" to 24"	3/18/16	1305	X			X						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	03/18/16	1650			
				3/19/16	0950

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642382 Sample # 8294171-201

COC # 493461

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirsten Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☒	Sediment ☐	Water: Potable ☐	Ground ☐	NPDES ☐	Surface ☐	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
9 School St SMPG 0" to 6"	3/18/16	1355	X		X							2	X	X	X	
9 School St SMPG 6" to 12"	3/18/16	1405	X		X							2	X	X	X	
9 School St SMPG 12" to 18"	3/18/16	1413	X		X							2	X	X	X	
9 School St SMPG 18" to 24"	3/18/16	1422	X		X							2	X	X	X	
9 School St LGPG 0" to 6"	3/18/16	1450	X		X							2	X	X	X	
9 School St LGPG 6" to 12"	3/18/16	1459	X		X							2	X	X	X	
9 School St LGPG 12" to 18"	3/18/16	1506	X		X							2	X	X	X	
9 School St LGPG 18" to 24"	3/18/16	1520	X		X							2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/18/16	1650			

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Temperature upon receipt 3.1-4.8 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

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Sample Administration Receipt Documentation Log

Doc Log ID: 140007

Group Number(s): 1642382

Client: CT Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/19/2016 9:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VT		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	No
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 250mL Na2S2O3 Preserved Poly

Unpacked by Patrick Engle (3472) at 10:46 on 03/19/2016

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	DT121	4.8	DT	Wet	Y	Bagged	N
2	DT121	4.5	DT	Wet	Y	Bagged	N
3	DT121	3.1	DT	Wet	Y	Bagged	N
4	DT121	4.2	DT	Wet	Y	Bagged	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
Bennington College Garden 6" to 12"	3/18/2016 09:24	No Date on COC
Bennington College Garden 12" to 18"	3/18/2016 09:33	No Date on COC
Bennington College Garden 18" to 24"	3/18/2016 09:44	No Date on COC
Auger Rinse #3	3/18/2016 09:50	No Date on COC
Bowl Rinse #3	3/18/2016 09:55	No Date on COC
9 School st SMPG 18" to 24"	3/18/2016 14:26	Time = 1422 on COC

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Lancaster, PA 17605-2425
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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 01, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/23/2016
Group Number: 1643263
SDG: SGP09
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Pembroke Stockpile 1 Grab Soil	8298601
29 Lever St 0" to 6" Grab Soil	8298602
29 Lever St 6" to 12" Grab Soil	8298603
29 Lever St 12" to 18" Grab Soil	8298604
29 Lever St 18" to 24" Grab Soil	8298605
2009 N Bennington Rd 0" to 6" Grab Soil	8298606
2009 N Bennington Rd 6" to 12" Grab Soil	8298607
2009 N Bennington Rd 12" to 18" Grab Soil	8298608
9 School St Maple Tree 0" to 6" Grab Soil	8298609
9 School St Maple Tree 6" to 12" Grab Soil	8298610
9 School St Maple Tree 12" to 18" Grab Soil	8298611
9 School St NE Corner PL 0" to 6" Grab Soil	8298612
9 School St NE Corner PL 6" to 12" Grab Soil	8298613
9 School St NE Corner PL 12" to 18" Grab Soil	8298614
9 School St NE Corner PL Duplicate Grab Soil	8298615
Auger Rinse #6 Grab Blank Water	8298616
Bowl Rinse #6 Grab Blank Water	8298617
Transport Blank 032216 Water	8298618
WWTP Liquid Grab Sludge	8298619
Pembroke Garden 0" to 6" Grab Soil	8298620
Pembroke Garden 0" to 6" MS Grab Soil	8298621
Pembroke Garden 0" to 6" MSD Grab Soil	8298622
Pembroke Garden 0" to 6" Dupl Grab Soil	8298623
Pembroke Garden 6" to 12" Grab Soil	8298624
Pembroke Garden 12" to 18" Grab Soil	8298625
Pembroke Garden 18" to 24" Grab Soil	8298626
Pembroke Stockpile 2 Grab Soil	8298627

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643263

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8298616-8298619 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16085005 (Sample number(s): 8298601-8298615, 8298620-8298622, 8298624-8298627 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16085049531A (Sample number(s): 8298601-8298609 UNSPK: 8298609 BKG: 8298609)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631A (Sample number(s): 8298620-8298621, 8298623-8298627 UNSPK: 8298620 BKG: 8298620)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631B (Sample number(s): 8298610-8298612 UNSPK: 8298611 BKG: 8298611)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949632A (Sample number(s): 8298613-8298614 UNSPK: 8298613 BKG: 8298613)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: Pembroke Stockpile 1 Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298601
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 09:25 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.68	U	0.68	2.2	1
14027	Perfluorodecanoic acid	335-76-2	0.27	U	0.27	0.55	1
14027	Perfluorododecanoic acid	307-55-1	0.55	U	0.55	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.41	U	0.41	0.82	1
14027	Perfluorohexanesulfonate	355-46-4	0.68	U	0.68	2.2	1
14027	Perfluorohexanoic acid	307-24-4	0.27	U	0.27	0.55	1
14027	Perfluorononanoic acid	375-95-1	0.43	J	0.27	0.55	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.95	U	0.95	2.2	1
14027	Perfluorooctanoic acid	335-67-1	5.6		0.41	0.82	1
14027	Perfluorotetradecanoic acid	376-06-7	0.41	U	0.41	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.82	U	0.82	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.41	U	0.41	0.82	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	41,700		1,160	3,470	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	26.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/28/2016 23:21	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 11:47	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pembroke Garden 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298620
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 15:00 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.35	J	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.85	U	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.75		0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	0.73	U	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	10,900		490	1,470	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/28/2016 22:38	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631A	03/25/2016 14:45	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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Analysis Report

Sample Description: Pembroke Garden 0" to 6" MS Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298621
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 15:00 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	24	0.61	1.9	1
14027	Perfluorodecanoic acid	335-76-2	23	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	24	0.48	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	21	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	19	0.61	1.9	1
14027	Perfluorohexanoic acid	307-24-4	25	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	21	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	27	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	24	0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	23	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	24	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	23	0.36	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	25,300	639	1,920	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	17.4	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/28/2016 22:52	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631A	03/25/2016 14:52	Clinton M Wilson	1
00118	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pembroke Garden 0" to 6" MSD Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298622
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 15:00 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-20MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	21	0.61	1.9	1
14027	Perfluorodecanoic acid	335-76-2	25	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	25	0.48	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	23	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	27	0.61	1.9	1
14027	Perfluorohexanoic acid	307-24-4	24	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	23	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	25	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	26	0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	28	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	22	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	25	0.36	0.73	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	17.4	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/28/2016 23:06	Meng Yu	1
00118	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pembroke Garden 0" to 6" Dupl Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298623
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 15:00 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-20DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	9,240	489	1,470	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	17.4	0.50	0.50	1
00121	Moisture Duplicate	n.a.	17.0	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16085949631A	03/26/2016 00:33	Clinton M Wilson	1
00118	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pembroke Garden 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298624
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 15:06 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.95	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.8		0.36	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.95	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,040		548	1,640	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 03:52	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631A	03/25/2016 15:13	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007B	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pembroke Garden 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298625
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 15:12 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.9		0.35	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	J	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	4,540		703	2,110	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 04:06	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631A	03/25/2016 23:23	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007B	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pembroke Garden 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298626
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 15:20 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-23

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.70	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.82	U	0.82	1.9	1
14027	Perfluorooctanoic acid	335-67-1	2.0		0.35	0.70	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.70	U	0.70	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.70	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	3,480		562	1,680	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	14.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 04:20	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631A	03/25/2016 23:30	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007B	03/23/2016 17:22	Scott W Freisher	1

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

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: Pembroke Stockpile 2 Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298627
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 15:38 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-24

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.77	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.90	U	0.90	2.1	1
14027	Perfluorooctanoic acid	335-67-1	1.5		0.39	0.77	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.77	U	0.77	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.77	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	12,300		754	2,260	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	22.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 04:34	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631A	03/25/2016 23:39	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007B	03/23/2016 17:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

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/g		ng/g	ng/g
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8298616-8298619			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16085049531A	Sample number(s): 8298601-8298609			
TOC	100	U	100	300
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627			
TOC	100	U	100	300
Batch number: 16085949631B	Sample number(s): 8298610-8298612			
TOC	100	U	100	300
Batch number: 16085949632A	Sample number(s): 8298613-8298614			
TOC	100	U	100	300

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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627								
Perfluorobutanesulfonate	20	15.48			77		70-130		
Perfluorodecanoic acid	20	18.64			93		70-130		
Perfluorododecanoic acid	20	18.1			91		70-130		
Perfluoroheptanoic acid	20	14.93			75		70-130		
Perfluorohexanesulfonate	20	17.86			89		70-130		
Perfluorohexanoic acid	20	16.82			84		70-130		
Perfluorononanoic acid	20	16.54			83		70-130		
Perfluoro-octanesulfonate	20	16.03			80		70-130		
Perfluorooctanoic acid	20	16.71			84		70-130		
Perfluorotetradecanoic acid	20	19.16			96		70-130		
Perfluorotridecanoic acid	20	17.51			88		70-130		
Perfluoroundecanoic acid	20	18.55			93		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609								
TOC	5430	4355.58			80		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614								
TOC	5430	5633.66			104		47-143		
	%	%	%	%					
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		
Batch number: 16083820007B	Sample number(s): 8298624-8298627								
Moisture	89.5	89.47			100		99-101		

MS/MSD

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627 UNSPK: 8298620										
Perfluorobutanesulfonate	0.50	U	20	19.77	20	17.06	99	85	70-130	15	30
Perfluorodecanoic acid	0.20	U	20	19.35	20	20.85	97	104	70-130	7	30
Perfluorododecanoic acid	0.40	U	20	19.96	20	20.51	100	103	70-130	3	30
Perfluoroheptanoic acid	0.30	U	20	17.45	20	19.01	87	95	70-130	9	30
Perfluorohexanesulfonate	0.50	U	20	16.01	20	22.29	80	111	70-130	33*	30
Perfluorohexanoic acid	0.20	U	20	20.75	20	19.87	104	99	70-130	4	30
Perfluorononanoic acid	0.285		20	17.53	20	18.76	86	92	70-130	7	30
Perfluoro-octanesulfonate	0.70	U	20	22.25	20	20.85	111	104	70-130	7	30
Perfluorooctanoic acid	0.621		20	20.15	20	21.78	98	106	70-130	8	30
Perfluorotetradecanoic acid	0.30	U	20	18.9	20	22.87	95	114	70-130	19	30
Perfluorotridecanoic acid	0.60	U	20	20.16	20	18.01	101	90	70-130	11	30
Perfluoroundecanoic acid	0.30	U	20	19.31	20	21.05	97	105	70-130	9	30
	ng/l		ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619 UNSPK: 8298619										
Perfluorooctanoic acid	353.46		200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77		200	212.06			100		70-130		
Perfluorodecanoic acid	4	U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24		200	217.48			105		70-130		
Perfluorododecanoic acid	10	U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8	U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10	U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4	U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94		200	220.71			94		70-130		
Perfluorobutanesulfonate	20	U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20	U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20	U	200	277.75			139*		70-130		
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609 UNSPK: 8298609										
TOC	7316.27		36330	38474.58			86		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 UNSPK: 8298620										
TOC	9011.75		15840	20898.05			75		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612 UNSPK: 8298611										
TOC	5226.63		40053	55767.69			126		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614 UNSPK: 8298613										
TOC	9810.05		17104	26157.35			96		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16085049531A	Sample number(s): 8298601-8298609 BKG: 8298609			

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
TOC	7316.27	3693.5	66* (1)	7
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 BKG: 8298620			
TOC	9011.75	7631.15	17*	7
Batch number: 16085949631B	Sample number(s): 8298610-8298612 BKG: 8298611			
TOC	5226.63	4793.28	9* (1)	7
Batch number: 16085949632A	Sample number(s): 8298613-8298614 BKG: 8298613			
TOC	9810.05	9008.73	9*	7
	%	%		
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623 BKG: 8298620, P298620			
Moisture	17.39	17.01	2	5
Moisture	17.39	17.01	2	5
Moisture Duplicate	17.39	17.01	2	5
Batch number: 16083820007B	Sample number(s): 8298624-8298627 BKG: 8298626			
Moisture	14.71	14.87	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643263 Sample # 8298601-27

COC # 493490

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
Pembroke Stockpile 1	3/22/16	0925		X		X							2	X	X	X	
29 Lever St 0" to 6"	3/22/16	1030	X			X							2	X	X	X	
29 Lever St 6" to 12"	3/22/16	1040	X			X							2	X	X	X	
29 Lever St 12" to 18"	3/22/16	1050	X			X							2	X	X	X	
29 Lever St 18" to 24"	3/22/16	1100	X			X							2	X	X	X	
2009 N. Bennington Rd 0"to6"	3/22/16	1131	X			X							2	X	X	X	
2009 N. Bennington Rd 6"to 12"	3/22/16	1137	X			X							2	X	X	X	
2009 N. Bennington Rd 12"to18"	3/22/16	1153	X			X							2	X	X	X	
9 School St Maple Tree 0"to6"	3/22/16	1254	X			X							2	X	X	X	
9 School St Maple Tree 6"to12"	3/22/16	1301	X			X							2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 / 3.9 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493362

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☒	Sediment ☐	Water: Potable ☐	Ground ☐	NPDES ☐	Surface ☐	Other: Liquid Sludge	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
9 School St Maple Tree 12" to 18"	3/22/16	1313	X		X							2	X	X	X								
9 School St NE Corner PL 0" to 6"	3/22/16	1333	X		X							2	X	X	X								
9 School St NE Corner PL 6" to 12"	3/22/16	1340	X		X							2	X	X	X								
9 School St NE Corner PL 12" to 18"	3/22/16	1357	X		X							2	X	X	X								
9 School St NE Corner PL Duplicate	3/22/16	1400	X		X							1	X										
Auger Rinse #6	3/22/16	1410	X				X					2				X							Lab DI Water
Bowl Rinse #6	3/22/16	1412	X				X					2				X							Lab DI Water
Transport Blank 032216	3/18/16	—	X				X					1				X							Lab supplied
WWTP Liquid Sludge	3/22/16	1435	X								X	2				X							
Pembroke Garden 0" to 6"	3/22/16	1500	X		X							4	X	X	X								MS/MSD Here

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 - 3.9 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493363

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Potable	Ground	Water	NPDES	Surface	Other:	Total # of Containers	EPA 537	TOC	Moisture									Remarks
Pembroke Garden 6" to 12"	3/22/16	1506	X			X							2	X	X	X									
Pembroke Garden 12" to 18"	3/22/16	1512	X			X							2	X	X	X									
Pembroke Garden 18" to 24"	3/22/16	1520	X			X							2	X	X	X									
Pembroke Stockpile 2	3/22/16	1538	X			X							2	X	X	X									

Analysis Requested / Preservation Codes

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/24/16	17:00			
			Kristen Abel	3/25/16	1005

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 2.9-3.9 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140307

Group Number(s): 1643263

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/23/2016 10:00
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	1
Samples Intact:	No	Trip Blank Type:	Na2S2O3
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:00 on 03/23/2016

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	DT146	2.9	DT	Wet	Y	Bagged	N
2	DT146	3.9	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
2009 N. Bennington Rd 6" to 12	125 ml wide mouth glass - None	1	N	subsampled for TOC/moist.

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.cor

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 01, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/23/2016
Group Number: 1643263
SDG: SGP09
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Pembroke Stockpile 1 Grab Soil	8298601
29 Lever St 0" to 6" Grab Soil	8298602
29 Lever St 6" to 12" Grab Soil	8298603
29 Lever St 12" to 18" Grab Soil	8298604
29 Lever St 18" to 24" Grab Soil	8298605
2009 N Bennington Rd 0" to 6" Grab Soil	8298606
2009 N Bennington Rd 6" to 12" Grab Soil	8298607
2009 N Bennington Rd 12" to 18" Grab Soil	8298608
9 School St Maple Tree 0" to 6" Grab Soil	8298609
9 School St Maple Tree 6" to 12" Grab Soil	8298610
9 School St Maple Tree 12" to 18" Grab Soil	8298611
9 School St NE Corner PL 0" to 6" Grab Soil	8298612
9 School St NE Corner PL 6" to 12" Grab Soil	8298613
9 School St NE Corner PL 12" to 18" Grab Soil	8298614
9 School St NE Corner PL Duplicate Grab Soil	8298615
Auger Rinse #6 Grab Blank Water	8298616
Bowl Rinse #6 Grab Blank Water	8298617
Transport Blank 032216 Water	8298618
WWTP Liquid Grab Sludge	8298619
Pembroke Garden 0" to 6" Grab Soil	8298620
Pembroke Garden 0" to 6" MS Grab Soil	8298621
Pembroke Garden 0" to 6" MSD Grab Soil	8298622
Pembroke Garden 0" to 6" Dupl Grab Soil	8298623
Pembroke Garden 6" to 12" Grab Soil	8298624
Pembroke Garden 12" to 18" Grab Soil	8298625
Pembroke Garden 18" to 24" Grab Soil	8298626
Pembroke Stockpile 2 Grab Soil	8298627

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643263

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8298616-8298619 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16085005 (Sample number(s): 8298601-8298615, 8298620-8298622, 8298624-8298627 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16085049531A (Sample number(s): 8298601-8298609 UNSPK: 8298609 BKG: 8298609)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631A (Sample number(s): 8298620-8298621, 8298623-8298627 UNSPK: 8298620 BKG: 8298620)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631B (Sample number(s): 8298610-8298612 UNSPK: 8298611 BKG: 8298611)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949632A (Sample number(s): 8298613-8298614 UNSPK: 8298613 BKG: 8298613)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: WWTP Liquid Grab Sludge
N. Bennington Soil Sampling

LL Sample # WW 8298619
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 14:35 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-19

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/l**		**ng/l**	**ng/l**	
10954	Perfluorooctanoic acid	335-67-1	350		4	8	4
10954	Perfluorononanoic acid	375-95-1	12		4	8	4
10954	Perfluorodecanoic acid	335-76-2	4	U	4	8	4
10954	Perfluoroundecanoic acid	2058-94-8	8	U	8	20	4
10954	Perfluorododecanoic acid	307-55-1	10	U	10	20	4
10954	Perfluorotridecanoic acid	72629-94-8	8	U	8	20	4
10954	Perfluorotetradecanoic acid	376-06-7	10	U	10	20	4
10954	Perfluorohexanoic acid	307-24-4	4	U	4	8	4
10954	Perfluoroheptanoic acid	375-85-9	33		4	8	4
10954	Perfluorobutanesulfonate	375-73-5	20	U	20	40	4
10954	Perfluorohexanesulfonate	355-46-4	20	U	20	40	4
10954	Perfluoro-octanesulfonate	1763-23-1	20	U	20	40	4

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10954	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085004	03/29/2016 18:10	Jason W Knight	4

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

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/g		ng/g	ng/g
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8298616-8298619			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16085049531A	Sample number(s): 8298601-8298609			
TOC	100	U	100	300
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627			
TOC	100	U	100	300
Batch number: 16085949631B	Sample number(s): 8298610-8298612			
TOC	100	U	100	300
Batch number: 16085949632A	Sample number(s): 8298613-8298614			
TOC	100	U	100	300

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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627								
Perfluorobutanesulfonate	20	15.48			77		70-130		
Perfluorodecanoic acid	20	18.64			93		70-130		
Perfluorododecanoic acid	20	18.1			91		70-130		
Perfluoroheptanoic acid	20	14.93			75		70-130		
Perfluorohexanesulfonate	20	17.86			89		70-130		
Perfluorohexanoic acid	20	16.82			84		70-130		
Perfluorononanoic acid	20	16.54			83		70-130		
Perfluoro-octanesulfonate	20	16.03			80		70-130		
Perfluorooctanoic acid	20	16.71			84		70-130		
Perfluorotetradecanoic acid	20	19.16			96		70-130		
Perfluorotridecanoic acid	20	17.51			88		70-130		
Perfluoroundecanoic acid	20	18.55			93		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609								
TOC	5430	4355.58			80		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614								
TOC	5430	5633.66			104		47-143		
	%	%	%	%					
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		
Batch number: 16083820007B	Sample number(s): 8298624-8298627								
Moisture	89.5	89.47			100		99-101		

MS/MSD

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627 UNSPK: 8298620										
Perfluorobutanesulfonate	0.50	U	20	19.77	20	17.06	99	85	70-130	15	30
Perfluorodecanoic acid	0.20	U	20	19.35	20	20.85	97	104	70-130	7	30
Perfluorododecanoic acid	0.40	U	20	19.96	20	20.51	100	103	70-130	3	30
Perfluoroheptanoic acid	0.30	U	20	17.45	20	19.01	87	95	70-130	9	30
Perfluorohexanesulfonate	0.50	U	20	16.01	20	22.29	80	111	70-130	33*	30
Perfluorohexanoic acid	0.20	U	20	20.75	20	19.87	104	99	70-130	4	30
Perfluorononanoic acid	0.285		20	17.53	20	18.76	86	92	70-130	7	30
Perfluoro-octanesulfonate	0.70	U	20	22.25	20	20.85	111	104	70-130	7	30
Perfluorooctanoic acid	0.621		20	20.15	20	21.78	98	106	70-130	8	30
Perfluorotetradecanoic acid	0.30	U	20	18.9	20	22.87	95	114	70-130	19	30
Perfluorotridecanoic acid	0.60	U	20	20.16	20	18.01	101	90	70-130	11	30
Perfluoroundecanoic acid	0.30	U	20	19.31	20	21.05	97	105	70-130	9	30
	ng/l		ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619 UNSPK: 8298619										
Perfluorooctanoic acid	353.46		200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77		200	212.06			100		70-130		
Perfluorodecanoic acid	4	U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24		200	217.48			105		70-130		
Perfluorododecanoic acid	10	U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8	U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10	U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4	U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94		200	220.71			94		70-130		
Perfluorobutanesulfonate	20	U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20	U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20	U	200	277.75			139*		70-130		
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609 UNSPK: 8298609										
TOC	7316.27		36330	38474.58			86		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 UNSPK: 8298620										
TOC	9011.75		15840	20898.05			75		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612 UNSPK: 8298611										
TOC	5226.63		40053	55767.69			126		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614 UNSPK: 8298613										
TOC	9810.05		17104	26157.35			96		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16085049531A	Sample number(s): 8298601-8298609 BKG: 8298609			

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
TOC	7316.27	3693.5	66* (1)	7
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 BKG: 8298620			
TOC	9011.75	7631.15	17*	7
Batch number: 16085949631B	Sample number(s): 8298610-8298612 BKG: 8298611			
TOC	5226.63	4793.28	9* (1)	7
Batch number: 16085949632A	Sample number(s): 8298613-8298614 BKG: 8298613			
TOC	9810.05	9008.73	9*	7
	%	%		
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623 BKG: 8298620, P298620			
Moisture	17.39	17.01	2	5
Moisture	17.39	17.01	2	5
Moisture Duplicate	17.39	17.01	2	5
Batch number: 16083820007B	Sample number(s): 8298624-8298627 BKG: 8298626			
Moisture	14.71	14.87	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643263 Sample # 8298601-27

COC # 493490

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
Pembroke Stockpile 1	3/22/16	0925		X		X							2	X	X	X	
29 Lever St 0" to 6"	3/22/16	1030	X			X							2	X	X	X	
29 Lever St 6" to 12"	3/22/16	1040	X			X							2	X	X	X	
29 Lever St 12" to 18"	3/22/16	1050	X			X							2	X	X	X	
29 Lever St 18" to 24"	3/22/16	1100	X			X							2	X	X	X	
2009 N. Bennington Rd 0"to6"	3/22/16	1131	X			X							2	X	X	X	
2009 N. Bennington Rd 6"to 12"	3/22/16	1137	X			X							2	X	X	X	
2009 N. Bennington Rd 12"to18"	3/22/16	1153	X			X							2	X	X	X	
9 School St Maple Tree 0"to6"	3/22/16	1254	X			X							2	X	X	X	
9 School St Maple Tree 6"to12"	3/22/16	1301	X			X							2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 / 3.9 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493362

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☒	Sediment ☐	Water: Potable ☐	Ground ☐	NPDES ☐	Surface ☐	Other: Liquid Sludge	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
9 School St Maple Tree 12" to 18"	3/22/16	1313	X		X							2	X	X	X								
9 School St NE Corner PL 0" to 6"	3/22/16	1333	X		X							2	X	X	X								
9 School St NE Corner PL 6" to 12"	3/22/16	1340	X		X							2	X	X	X								
9 School St NE Corner PL 12" to 18"	3/22/16	1357	X		X							2	X	X	X								
9 School St NE Corner PL Duplicate	3/22/16	1400	X		X							1	X										
Auger Rinse #6	3/22/16	1410	X				X					2				X							Lab DI Water
Bowl Rinse #6	3/22/16	1412	X				X					2				X							Lab DI Water
Transport Blank 032216	3/18/16	—	X				X					1				X							Lab supplied
WWTP Liquid Sludge	3/22/16	1435	X								X	2				X							
Pembroke Garden 0" to 6"	3/22/16	1500	X		X							4	X	X	X								MS/MSD Here

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 - 3.9 °C

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7044 1115

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493363

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Potable	Ground	Water	NPDES	Surface	Other:	Total # of Containers	EPA 537	TOC	Moisture									Remarks
Pembroke Garden 6" to 12"	3/22/16	1506	X			X							2	X	X	X									
Pembroke Garden 12" to 18"	3/22/16	1512	X			X							2	X	X	X									
Pembroke Garden 18" to 24"	3/22/16	1520	X			X							2	X	X	X									
Pembroke Stockpile 2	3/22/16	1538	X			X							2	X	X	X									

Analysis Requested / Preservation Codes

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/24/16	17:00			
			Kristen Abel	3/25/16	1005

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 2.9-3.9 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140307

Group Number(s): 1643263

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/23/2016 10:00
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	1
Samples Intact:	No	Trip Blank Type:	Na2S2O3
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:00 on 03/23/2016

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	DT146	2.9	DT	Wet	Y	Bagged	N
2	DT146	3.9	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
2009 N. Bennington Rd 6" to 12	125 ml wide mouth glass - None	1	N	subsampled for TOC/moist.

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Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: July 08, 2016

Project: SGPP - Bennington

Submittal Date: 05/12/2016
Group Number: 1660038
SDG: SGP75
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
1682 Harrington Rd 0"to6" Grab Soil	8377455
1682 Harrington Rd 6"to12" Grab Soil	8377456
1682 Harrington Rd 12"to18" Grab Soil	8377457
1682 Harrington Rd 12"to18" MS Grab Soil	8377458
1682 Harrington Rd 12"to18" MSD Grab Soil	8377459
1682 Harrington Rd 18"to24" Grab Soil	8377460
1682 Harrington Rd Field Duplicate Grab Soil	8377461
Auger Rinse Grab Blank Water	8377462
Bowl Rinse Grab Blank Water	8377463
Trip Blank #1031628 Water	8377464

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

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Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: SGPP - Bennington
LL Group #: 1660038

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8377455, 8377456, 8377457, 8377458, 8377459, 8377460, 8377461

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.
The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications.
All data is included in data package.

Batch #: 16139002 (Sample number(s): 8377462-8377464 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorobutanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorodecanoic acid, Perfluorotridecanoic acid, Perfluorotetradecanoic acid, Perfluoroheptanoic acid, Perfluorohexanesulfonate

Batch #: 16153005 (Sample number(s): 8377455-8377461 UNSPK: 8377457)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Perfluorotetradecanoic acid

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: Perfluorododecanoic acid

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorododecanoic acid, Perfluorotridecanoic acid

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorotridecanoic acid

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Analysis Report

Sample Description: 1682 Harrington Rd 0"to6" Grab Soil
1682 Harrington Road

LL Sample # SW 8377455
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:15 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-1 SDG#: SGP75-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.66	U	0.66	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.53	1
14027	Perfluorododecanoic acid	307-55-1	0.53	U	0.53	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.40	U	0.40	0.79	1
14027	Perfluorohexanesulfonate	355-46-4	0.66	U	0.66	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.53	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.53	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.92	U	0.92	2.1	1
14027	Perfluorooctanoic acid	335-67-1	2.0		0.40	0.79	1
14027	Perfluorotetradecanoic acid	376-06-7	0.40	U	0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.79	U	0.79	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.40	U	0.40	0.79	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,600	554	1,660	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	24.2	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 13:17	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1

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

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Analysis Report

Sample Description: 1682 Harrington Rd 0"to6" Grab Soil
1682 Harrington Road

LL Sample # SW 8377455
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:15 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-1 SDG#: SGP75-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16139049531A	05/18/2016 23:22	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820001A	05/17/2016 00:06	Scott W Freisher	1

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

Sample Description: 1682 Harrington Rd 6"to12" Grab Soil
1682 Harrington Road

LL Sample # SW 8377456
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:20 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-2 SDG#: SGP75-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	0.50	U	0.50	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.88	U	0.88	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.6		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,240		282	846	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	20.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 13:37	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1

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

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Lancaster Laboratories Environmental

Analysis Report

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Sample Description: 1682 Harrington Rd 6"to12" Grab Soil
1682 Harrington Road

LL Sample # SW 8377456
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:20 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-2 SDG#: SGP75-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16139049531A	05/18/2016 23:40	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820001A	05/17/2016 00:06	Scott W Freisher	1

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

Sample Description: 1682 Harrington Rd 12"to18" Grab Soil
1682 Harrington Road

LL Sample # SW 8377457
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:38 by LC
through 05/11/2016 12:41
Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-3 SDG#: SGP75-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	U	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.3		0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.74	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	3,630		186	558	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 12:20	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1

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

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Analysis Report

Sample Description: 1682 Harrington Rd 12"to18" Grab Soil
1682 Harrington Road

LL Sample # SW 8377457
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:38 by LC
through 05/11/2016 12:41
Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-3 SDG#: SGP75-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16139049531A	05/18/2016 23:58	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820001A	05/17/2016 00:06	Scott W Freisher	1

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

Sample Description: 1682 Harrington Rd 12"to18" MS Grab Soil
1682 Harrington Road

LL Sample # SW 8377458
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:38 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-3 SDG#: SGP75-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	20	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	24	0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	12	0.49	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	23	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	25	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	24	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	27	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	25	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	28	0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	25	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	14	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	25	0.37	0.74	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	18.8	0.50	0.50	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 12:39	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1
00118	Moisture	SM 2540 G-1997	1	16137820001A	05/17/2016 00:06	Scott W Freisher	1

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Analysis Report

Sample Description: 1682 Harrington Rd 12"to18" MSD Grab Soil
1682 Harrington Road

LL Sample # SW 8377459
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:38 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-3 SDG#: SGP75-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		ng/g	ng/g	ng/g	
14027	Perfluorobutanesulfonate	375-73-5	22	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	28	0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	12	0.49	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	25	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	25	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	24	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	25	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	27	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	29	0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	30	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	9.8	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	30	0.37	0.74	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00118	Moisture	n.a.	18.8	0.50	0.50	1
00121	Moisture Duplicate	n.a.	18.5	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 12:58	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1
00118	Moisture	SM 2540 G-1997	1	16137820001A	05/17/2016 00:06	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	1	16137820001A	05/17/2016 00:06	Scott W Freisher	1

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

Sample Description: 1682 Harrington Rd 18"to24" Grab Soil
1682 Harrington Road

LL Sample # SW 8377460
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:47 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-4 SDG#: SGP75-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.85	U	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.3		0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	0.73	U	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.73	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	1,420	183	550	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	17.7	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 13:56	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1

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

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Lancaster Laboratories Environmental

Analysis Report

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Sample Description: 1682 Harrington Rd 18"to24" Grab Soil
1682 Harrington Road

LL Sample # SW 8377460
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:47 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HAR-4 SDG#: SGP75-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16139049531A	05/19/2016 00:30	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820001A	05/17/2016 00:06	Scott W Freisher	1

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

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Analysis Report

Sample Description: 1682 Harrington Rd Field Duplicate Grab Soil
1682 Harrington Road

LL Sample # SW 8377461
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:22 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HARFD SDG#: SGP75-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.4		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 14:15	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1
00111	Moisture	SM 2540 G-1997	1	16137820001A	05/17/2016 00:06	Scott W Freisher	1

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

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Analysis Report

Sample Description: Auger Rinse Grab Blank Water
1682 Harrington Road

LL Sample # WW 8377462
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:54 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HARAR SDG#: SGP75-06RB

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/l**		**ng/l**	**ng/l**	
10954	Perfluorooctanoic acid	335-67-1	1	U	1	2	1
10954	Perfluorononanoic acid	375-95-1	1	U	1	2	1
10954	Perfluorodecanoic acid	335-76-2	1	U	1	2	1
10954	Perfluoroundecanoic acid	2058-94-8	2	U	2	4	1
10954	Perfluorododecanoic acid	307-55-1	3	U	3	5	1
10954	Perfluorotridecanoic acid	72629-94-8	2	U	2	4	1
10954	Perfluorotetradecanoic acid	376-06-7	3	U	3	5	1
10954	Perfluorohexanoic acid	307-24-4	1	U	1	2	1
10954	Perfluoroheptanoic acid	375-85-9	1	U	1	2	1
10954	Perfluorobutanesulfonate	375-73-5	4	U	4	10	1
10954	Perfluorohexanesulfonate	355-46-4	4	U	4	10	1
10954	Perfluoro-octanesulfonate	1763-23-1	5	U	5	10	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10954	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16139002	05/22/2016 23:49	Jason W Knight	1

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

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Analysis Report

Sample Description: Bowl Rinse Grab Blank Water
1682 Harrington Road

LL Sample # WW 8377463
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 12:57 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HARBR SDG#: SGP75-07RB

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/l**		**ng/l**	**ng/l**	
10954	Perfluorooctanoic acid	335-67-1	1	U	1	2	1
10954	Perfluorononanoic acid	375-95-1	1	U	1	2	1
10954	Perfluorodecanoic acid	335-76-2	2	J	1	2	1
10954	Perfluoroundecanoic acid	2058-94-8	2	U	2	4	1
10954	Perfluorododecanoic acid	307-55-1	3	U	3	5	1
10954	Perfluorotridecanoic acid	72629-94-8	2	U	2	4	1
10954	Perfluorotetradecanoic acid	376-06-7	3	U	3	5	1
10954	Perfluorohexanoic acid	307-24-4	1	U	1	2	1
10954	Perfluoroheptanoic acid	375-85-9	1	U	1	2	1
10954	Perfluorobutanesulfonate	375-73-5	4	U	4	10	1
10954	Perfluorohexanesulfonate	355-46-4	4	U	4	10	1
10954	Perfluoro-octanesulfonate	1763-23-1	5	U	5	10	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10954	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16139002	05/23/2016 00:07	Jason W Knight	1

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

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Analysis Report

Sample Description: Trip Blank #1031628 Water
1682 Harrington Road

LL Sample # WW 8377464
LL Group # 1660038
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/06/2016

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:00

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

HARTB SDG#: SGP75-08TB

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/l**		**ng/l**	**ng/l**	
10954	Perfluorooctanoic acid	335-67-1	1	U	1	2	1
10954	Perfluorononanoic acid	375-95-1	1	U	1	2	1
10954	Perfluorodecanoic acid	335-76-2	1	U	1	2	1
10954	Perfluoroundecanoic acid	2058-94-8	2	U	2	4	1
10954	Perfluorododecanoic acid	307-55-1	3	U	3	5	1
10954	Perfluorotridecanoic acid	72629-94-8	2	U	2	4	1
10954	Perfluorotetradecanoic acid	376-06-7	3	U	3	5	1
10954	Perfluorohexanoic acid	307-24-4	1	U	1	2	1
10954	Perfluoroheptanoic acid	375-85-9	1	U	1	2	1
10954	Perfluorobutanesulfonate	375-73-5	4	U	4	10	1
10954	Perfluorohexanesulfonate	355-46-4	4	U	4	10	1
10954	Perfluoro-octanesulfonate	1763-23-1	5	U	5	10	1

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10954	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16139002	05/23/2016 00:25	Jason W Knight	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/08/2016 15:00

Group Number: 1660038

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/g		ng/g	ng/g
Batch number: 16153005	Sample number(s): 8377455-8377461			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16139002	Sample number(s): 8377462-8377464			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16139049531A	Sample number(s): 8377455-8377457,8377460			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16153005	Sample number(s): 8377455-8377461								
Perfluorobutanesulfonate	17.68	17.9			101		70-130		

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/08/2016 15:00

Group Number: 1660038

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluorodecanoic acid	20	20.2			101		70-130		
Perfluorododecanoic acid	20	5.02			25*		70-130		
Perfluoroheptanoic acid	20	19			95		70-130		
Perfluorohexanesulfonate	18.92	19.9			105		70-130		
Perfluorohexanoic acid	20	20			100		70-130		
Perfluorononanoic acid	20	19.4			97		70-130		
Perfluoro-octanesulfonate	19.12	20			105		70-130		
Perfluorooctanoic acid	20	20.5			103		70-130		
Perfluorotetradecanoic acid	20	40.9			205*		70-130		
Perfluorotridecanoic acid	20	19.6			98		70-130		
Perfluoroundecanoic acid	20	18.6			93		70-130		
	ng/l	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16139002	Sample number(s): 8377462-8377464								
Perfluorooctanoic acid	200	220.44	200	199.5	110	100	70-130	10	30
Perfluorononanoic acid	200	180.4	200	192.15	90	96	70-130	6	30
Perfluorodecanoic acid	200	180.54	200	182.44	90	91	70-130	1	30
Perfluoroundecanoic acid	200	186.01	200	210.71	93	105	70-130	12	30
Perfluorododecanoic acid	200	174.05	200	209.07	87	105	70-130	18	30
Perfluorotridecanoic acid	200	174.4	200	201.25	87	101	70-130	14	30
Perfluorotetradecanoic acid	200	158.35	200	195.93	79	98	70-130	21	30
Perfluorohexanoic acid	200	192.8	200	189.88	96	95	70-130	2	30
Perfluoroheptanoic acid	200	176.49	200	227.28	88	114	70-130	25	30
Perfluorobutanesulfonate	176.8	203.16	176.8	140.18	115	79	70-130	37*	30
Perfluorohexanesulfonate	189.2	166.54	189.2	173.04	88	91	70-130	4	30
Perfluoro-octanesulfonate	191.2	202.93	191.2	187.04	106	98	70-130	8	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16139049531A	Sample number(s): 8377455-8377457,8377460								
TOC	5430	5141.64			95		47-143		
	%	**%**	**%**	**%**					
Batch number: 16137820001A	Sample number(s): 8377455-8377461								
Moisture	89.5	89.46			100		99-101		
Moisture	89.5	89.46			100		99-101		
Moisture Duplicate	89.5	89.46			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16153005	Sample number(s): 8377455-8377461 UNSPK: 8377457									
Perfluorobutanesulfonate	0.50 U	17.68	16.5	17.68	17.7	93	100	70-130	7	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/08/2016 15:00

Group Number: 1660038

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorodecanoic acid	0.20	U	20	19.3	20	23.1	97	116	70-130	18	30
Perfluorododecanoic acid	0.40	U	20	10.1	20	9.90	51*	50*	70-130	2	30
Perfluoroheptanoic acid	0.30	U	20	19	20	19.9	95	100	70-130	5	30
Perfluorohexanesulfonate	0.50	U	18.92	20.5	18.92	20.7	108	109	70-130	1	30
Perfluorohexanoic acid	0.20	U	20	19.3	20	19.8	97	99	70-130	3	30
Perfluorononanoic acid	0.20	U	20	22.3	20	20.2	112	101	70-130	10	30
Perfluoro-octanesulfonate	0.70	U	19.12	20.2	19.12	21.9	106	115	70-130	8	30
Perfluorooctanoic acid	1.84		20	23.1	20	23.2	106	107	70-130	0	30
Perfluorotetradecanoic acid	0.30	U	20	20.2	20	24.5	101	123	70-130	19	30
Perfluorotridecanoic acid	0.60	U	20	11.1	20	7.94	56*	40*	70-130	33*	30
Perfluoroundecanoic acid	0.30	U	20	20.1	20	24.7	101	124	70-130	21	30
	ng/l		ng/l	ng/l	ng/l	ng/l					
Batch number: 16139002	Sample number(s): 8377462-8377464 UNSPK: 8365689										
Perfluorooctanoic acid	1	U	200	147.53			74		70-130		
Perfluorononanoic acid	1	U	200	147.68			74		70-130		
Perfluorodecanoic acid	2.30		200	137.92			68*		70-130		
Perfluoroundecanoic acid	2	U	200	171.84			86		70-130		
Perfluorododecanoic acid	3	U	200	168.24			84		70-130		
Perfluorotridecanoic acid	2.55		200	131.51			64*		70-130		
Perfluorotetradecanoic acid	3.25		200	122.01			59*		70-130		
Perfluorohexanoic acid	1	U	200	155.27			78		70-130		
Perfluoroheptanoic acid	1	U	200	85.04			43*		70-130		
Perfluorobutanesulfonate	4	U	176.8	140.91			80		70-130		
Perfluorohexanesulfonate	4	U	189.2	127.59			67*		70-130		
Perfluoro-octanesulfonate	5	U	191.2	134.71			70		70-130		
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16139049531A	Sample number(s): 8377455-8377457,8377460 UNSPK: 8377457										
TOC	2950.03		27298	31428.57			104		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16139049531A	Sample number(s): 8377455-8377457,8377460 BKG: 8377457			
TOC	2950.03	3144.27	6	7
	%	%		
Batch number: 16137820001A	Sample number(s): 8377455-8377461 BKG: 8377457, P377457			
Moisture	18.76	18.51	1	5
Moisture	18.76	18.51	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/08/2016 15:00

Group Number: 1660038

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc %	DUP Conc %	DUP RPD	DUP RPD Max
Moisture Duplicate	18.76	18.51	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Environmental Services Analysis Request/Chain of Custody

Acct. #: 37191 Group #: 1660038 Sample #: 8377455-64 COC#: 14597

Client: C.T. Male Associates	
Project Name/#: 16.6131	Site ID: 1682 Harrington Road
Project Manager: Kirk Moline	P.O. #:
Sampler: Larene Cameron	
Phone #: 518-786-7502	Quote #: 214135
State where sample(s) were collected: VT	

For Lab Use Only
SF#: 271284
SCR#: 188162

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Matrix: Sediment ☐ Soil ☒; Water: Ground ☐ Surface ☐ Potable ☐ NPDES ☐; Other:

Analyses Requested / Preservation Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Water	Other	Total # of Containers	PFCs (EPA 537 mod.)												Remarks
1682 Harrington Rd 0" to 6"	5-11-16	1215	X		X			1	X												
1682 Harrington Rd 6" to 12"	5-11-16	1220	X		X			1	X												
1682 Harrington Rd 12" to 18"	5-11-16	1238	X		X			3	X												MS and MSD Here
1682 Harrington Rd 18" to 24"	5-11-16	1247	X		X			1	X												
1682 Harrington Rd Field Duplicate	5-11-16	1222	X		X			1	X												
Auger Rinse	5-11-16	1254	X			X		2	X												LAB DI Water
Bowl Rinse	5-11-16	1257	X			X		2	X												LAB DI Water
Trip Blank #1031628	5-6-16	—	—			X		1	X												LAB Supplied

Turnaround Time Requested (TAT) (please check): Standard ☑ RUSH ☐
(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)
Date results are needed:
E-mail address to send RUSH results:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐	TX TRRP - 13	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐		
Type IV (CLP SOW)	☐	ASP Type A	☐		
Type VI (Raw Data Only)	☐	ASP Type B	☑		

EDD Format:

If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.

Relinquished by:	Date	Time	Received by:	Date	Time
Larene Cameron	5-11-16	1710			
			[signature]	5-12-16	920

Airbill No :
Relinquished by Commercial Carrier:
UPS ______ FedEx X Other ______

Temperature upon receipt 1.6 °C

eurofins Lancaster Laboratories

Environmental Services Analysis Request/Chain of Custody

Acct. #: 37191 Group #: 1660038 Sample #: 8377455-CH COC#: 14598

Client: C.T. Male Associates

Project Name/#: 16.6131 Site ID: 1682 Harrington Road

Project Manager: Kirk Moline P.O. #:

Sampler: Larene Cameron

Phone #: 518-786-7502 Quote #: 214135

State where sample(s) were collected: VT

For Lab Use Only: SF#: 266803 SCR#: 188458

Matrix: Sediment / Soil [X]; Water: Ground, Surface, Potable, NPDES; Other:

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Water	Other	Total # of Containers	SM 5310 B (mod. 2000)	Moisture (2540 G)	Remarks
1682 Harrington Rd 0" to 6"	5-11-16	1215	X		X			1	X	X	
1682 Harrington Rd 6" to 12"	5-11-16	1220	X		X			1	X	X	
1682 Harrington Rd 12" to 18"	5-11-16	1241	X		X			1	X	X	
1682 Harrington Rd 18" to 24"	5-11-16	1247	X		X			1	X	X	

Turnaround Time Requested (TAT) (please check): Standard [✓] RUSH [ ]

(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)

Date results are needed:

E-mail address to send RUSH results:

Data Package Options (please check if required)

- Type I (Validation/non-CLP) [ ]
- Type III (Reduced non-CLP) [ ]
- Type IV (CLP SOW) [ ]
- Type VI (Raw Data Only) [ ]
- MA MCP [ ]
- CT RCP [ ]
- ASP Type A [ ]
- ASP Type B [✓]
- TX TRRP - 13 [ ]

EDD Format:

If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	5-11-16	1710			
			[signature]	5-12-16	930

Airbill No.:

Relinquished by Commercial Carrier.

UPS ____ FedEx X Other ____

Temperature upon receipt 1.6 °C

Eurofins Lancaster Laboratories Environmental • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 Issued by Dept. 40 Management

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Sample Administration Receipt Documentation Log

Doc Log ID: 146340

Group Number(s): 1660038

Client: C.T. Male

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	05/12/2016 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S203
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 16:48 on 05/12/2016

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	1.6	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.cor

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 01, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/23/2016
Group Number: 1643263
SDG: SGP09
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Pembroke Stockpile 1 Grab Soil	8298601
29 Lever St 0" to 6" Grab Soil	8298602
29 Lever St 6" to 12" Grab Soil	8298603
29 Lever St 12" to 18" Grab Soil	8298604
29 Lever St 18" to 24" Grab Soil	8298605
2009 N Bennington Rd 0" to 6" Grab Soil	8298606
2009 N Bennington Rd 6" to 12" Grab Soil	8298607
2009 N Bennington Rd 12" to 18" Grab Soil	8298608
9 School St Maple Tree 0" to 6" Grab Soil	8298609
9 School St Maple Tree 6" to 12" Grab Soil	8298610
9 School St Maple Tree 12" to 18" Grab Soil	8298611
9 School St NE Corner PL 0" to 6" Grab Soil	8298612
9 School St NE Corner PL 6" to 12" Grab Soil	8298613
9 School St NE Corner PL 12" to 18" Grab Soil	8298614
9 School St NE Corner PL Duplicate Grab Soil	8298615
Auger Rinse #6 Grab Blank Water	8298616
Bowl Rinse #6 Grab Blank Water	8298617
Transport Blank 032216 Water	8298618
WWTP Liquid Grab Sludge	8298619
Pembroke Garden 0" to 6" Grab Soil	8298620
Pembroke Garden 0" to 6" MS Grab Soil	8298621
Pembroke Garden 0" to 6" MSD Grab Soil	8298622
Pembroke Garden 0" to 6" Dupl Grab Soil	8298623
Pembroke Garden 6" to 12" Grab Soil	8298624
Pembroke Garden 12" to 18" Grab Soil	8298625
Pembroke Garden 18" to 24" Grab Soil	8298626
Pembroke Stockpile 2 Grab Soil	8298627

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643263

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8298616-8298619 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16085005 (Sample number(s): 8298601-8298615, 8298620-8298622, 8298624-8298627 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16085049531A (Sample number(s): 8298601-8298609 UNSPK: 8298609 BKG: 8298609)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631A (Sample number(s): 8298620-8298621, 8298623-8298627 UNSPK: 8298620 BKG: 8298620)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631B (Sample number(s): 8298610-8298612 UNSPK: 8298611 BKG: 8298611)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949632A (Sample number(s): 8298613-8298614 UNSPK: 8298613 BKG: 8298613)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: 29 Lever St 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298602
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 10:30 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.57		0.26	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.77	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.61		0.26	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.0	J	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.4		0.38	0.77	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	J	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.77	U	0.77	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.77	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,600		1,010	3,020	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/28/2016 23:35	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 11:56	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 29 Lever St 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298603
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 10:40 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.42	J	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.1		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,230		821	2,460	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/28/2016 23:49	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 12:03	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 29 Lever St 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298604
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 10:50 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.1		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,460		482	1,440	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 00:32	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 12:36	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 29 Lever St 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298605
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 11:00 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	0.50	U	0.50	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.88	U	0.88	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.5		0.38	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.75	U	0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	4,480		848	2,540	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	20.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 00:46	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 12:52	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

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/g		ng/g	ng/g
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8298616-8298619			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16085049531A	Sample number(s): 8298601-8298609			
TOC	100	U	100	300
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627			
TOC	100	U	100	300
Batch number: 16085949631B	Sample number(s): 8298610-8298612			
TOC	100	U	100	300
Batch number: 16085949632A	Sample number(s): 8298613-8298614			
TOC	100	U	100	300

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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627								
Perfluorobutanesulfonate	20	15.48			77		70-130		
Perfluorodecanoic acid	20	18.64			93		70-130		
Perfluorododecanoic acid	20	18.1			91		70-130		
Perfluoroheptanoic acid	20	14.93			75		70-130		
Perfluorohexanesulfonate	20	17.86			89		70-130		
Perfluorohexanoic acid	20	16.82			84		70-130		
Perfluorononanoic acid	20	16.54			83		70-130		
Perfluoro-octanesulfonate	20	16.03			80		70-130		
Perfluorooctanoic acid	20	16.71			84		70-130		
Perfluorotetradecanoic acid	20	19.16			96		70-130		
Perfluorotridecanoic acid	20	17.51			88		70-130		
Perfluoroundecanoic acid	20	18.55			93		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609								
TOC	5430	4355.58			80		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614								
TOC	5430	5633.66			104		47-143		
	%	%	%	%					
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		
Batch number: 16083820007B	Sample number(s): 8298624-8298627								
Moisture	89.5	89.47			100		99-101		

MS/MSD

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627 UNSPK: 8298620										
Perfluorobutanesulfonate	0.50	U	20	19.77	20	17.06	99	85	70-130	15	30
Perfluorodecanoic acid	0.20	U	20	19.35	20	20.85	97	104	70-130	7	30
Perfluorododecanoic acid	0.40	U	20	19.96	20	20.51	100	103	70-130	3	30
Perfluoroheptanoic acid	0.30	U	20	17.45	20	19.01	87	95	70-130	9	30
Perfluorohexanesulfonate	0.50	U	20	16.01	20	22.29	80	111	70-130	33*	30
Perfluorohexanoic acid	0.20	U	20	20.75	20	19.87	104	99	70-130	4	30
Perfluorononanoic acid	0.285		20	17.53	20	18.76	86	92	70-130	7	30
Perfluoro-octanesulfonate	0.70	U	20	22.25	20	20.85	111	104	70-130	7	30
Perfluorooctanoic acid	0.621		20	20.15	20	21.78	98	106	70-130	8	30
Perfluorotetradecanoic acid	0.30	U	20	18.9	20	22.87	95	114	70-130	19	30
Perfluorotridecanoic acid	0.60	U	20	20.16	20	18.01	101	90	70-130	11	30
Perfluoroundecanoic acid	0.30	U	20	19.31	20	21.05	97	105	70-130	9	30
	ng/l		ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619 UNSPK: 8298619										
Perfluorooctanoic acid	353.46		200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77		200	212.06			100		70-130		
Perfluorodecanoic acid	4	U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24		200	217.48			105		70-130		
Perfluorododecanoic acid	10	U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8	U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10	U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4	U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94		200	220.71			94		70-130		
Perfluorobutanesulfonate	20	U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20	U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20	U	200	277.75			139*		70-130		
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609 UNSPK: 8298609										
TOC	7316.27		36330	38474.58			86		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 UNSPK: 8298620										
TOC	9011.75		15840	20898.05			75		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612 UNSPK: 8298611										
TOC	5226.63		40053	55767.69			126		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614 UNSPK: 8298613										
TOC	9810.05		17104	26157.35			96		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16085049531A	Sample number(s): 8298601-8298609 BKG: 8298609			

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
TOC	7316.27	3693.5	66* (1)	7
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 BKG: 8298620			
TOC	9011.75	7631.15	17*	7
Batch number: 16085949631B	Sample number(s): 8298610-8298612 BKG: 8298611			
TOC	5226.63	4793.28	9* (1)	7
Batch number: 16085949632A	Sample number(s): 8298613-8298614 BKG: 8298613			
TOC	9810.05	9008.73	9*	7
	%	%		
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623 BKG: 8298620, P298620			
Moisture	17.39	17.01	2	5
Moisture	17.39	17.01	2	5
Moisture Duplicate	17.39	17.01	2	5
Batch number: 16083820007B	Sample number(s): 8298624-8298627 BKG: 8298626			
Moisture	14.71	14.87	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643263 Sample # 8298601-27

COC # 493490

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
Pembroke Stockpile 1	3/22/16	0925		X		X							2	X	X	X	
29 Lever St 0" to 6"	3/22/16	1030	X			X							2	X	X	X	
29 Lever St 6" to 12"	3/22/16	1040	X			X							2	X	X	X	
29 Lever St 12" to 18"	3/22/16	1050	X			X							2	X	X	X	
29 Lever St 18" to 24"	3/22/16	1100	X			X							2	X	X	X	
2009 N. Bennington Rd 0"to6"	3/22/16	1131	X			X							2	X	X	X	
2009 N. Bennington Rd 6"to 12"	3/22/16	1137	X			X							2	X	X	X	
2009 N. Bennington Rd 12"to18"	3/22/16	1153	X			X							2	X	X	X	
9 School St Maple Tree 0"to6"	3/22/16	1254	X			X							2	X	X	X	
9 School St Maple Tree 6"to12"	3/22/16	1301	X			X							2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 / 3.9 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493362

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☒	Sediment ☐	Water: Potable ☐	Ground ☐	NPDES ☐	Surface ☐	Other: Liquid Sludge	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
9 School St Maple Tree 12" to 18"	3/22/16	1313	X		X							2	X	X	X								
9 School St NE Corner PL 0" to 6"	3/22/16	1333	X		X							2	X	X	X								
9 School St NE Corner PL 6" to 12"	3/22/16	1340	X		X							2	X	X	X								
9 School St NE Corner PL 12" to 18"	3/22/16	1357	X		X							2	X	X	X								
9 School St NE Corner PL Duplicate	3/22/16	1400	X		X							1	X										
Auger Rinse #6	3/22/16	1410	X				X					2				X							Lab DI Water
Bowl Rinse #6	3/22/16	1412	X				X					2				X							Lab DI Water
Transport Blank 032216	3/18/16	—	X				X					1				X							Lab supplied
WWTP Liquid Sludge	3/22/16	1435	X								X	2				X							
Pembroke Garden 0" to 6"	3/22/16	1500	X		X							4	X	X	X								MS/MSD Here

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 - 3.9 °C

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7044 1115

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493363

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Potable	Ground	Water	NPDES	Surface	Other:	Total # of Containers	EPA 537	TOC	Moisture									Remarks
Pembroke Garden 6" to 12"	3/22/16	1506	X			X							2	X	X	X									
Pembroke Garden 12" to 18"	3/22/16	1512	X			X							2	X	X	X									
Pembroke Garden 18" to 24"	3/22/16	1520	X			X							2	X	X	X									
Pembroke Stockpile 2	3/22/16	1538	X			X							2	X	X	X									

Analysis Requested / Preservation Codes

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/24/16	17:00			
			Kristen Abel	3/25/16	1005

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 2.9-3.9 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140307

Group Number(s): 1643263

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/23/2016 10:00
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	1
Samples Intact:	No	Trip Blank Type:	Na2S2O3
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:00 on 03/23/2016

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	DT146	2.9	DT	Wet	Y	Bagged	N
2	DT146	3.9	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
2009 N. Bennington Rd 6" to 12	125 ml wide mouth glass - None	1	N	subsampled for TOC/moist.

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Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: July 08, 2016

Project: SGPP - Bennington

Submittal Date: 05/12/2016
Group Number: 1660039
SDG: SGP76
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Peace Farm 0"to6" Grab Soil	8377465
Peace Farm 6"to12" Grab Soil	8377466
Peace Farm 12"to18" Grab Soil	8377467
Peace Farm 18"to24" Grab Soil	8377468

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: SGPP - Bennington
LL Group #: 1660039

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8377465, 8377466, 8377467, 8377468

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.
The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications.
All data is included in data package.

Batch #: 16153005 (Sample number(s): 8377465-8377468 UNSPK: 8377457)

The recovery(ies) for the following analyte(s) in the LCS exceeded the acceptance window indicating a positive bias: Perfluorotetradecanoic acid

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: Perfluorododecanoic acid

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorododecanoic acid, Perfluorotridecanoic acid

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorotridecanoic acid

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Analysis Report

Sample Description: Peace Farm 0"to6" Grab Soil
500 McCulough Road

LL Sample # SW 8377465
LL Group # 1660039
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 14:10 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:02

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

PF-01 SDG#: SGP76-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.71	U	0.71	2.3	1
14027	Perfluorodecanoic acid	335-76-2	0.28	U	0.28	0.57	1
14027	Perfluorododecanoic acid	307-55-1	0.57	U	0.57	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.42	U	0.42	0.85	1
14027	Perfluorohexanesulfonate	355-46-4	0.71	U	0.71	2.3	1
14027	Perfluorohexanoic acid	307-24-4	0.28	U	0.28	0.57	1
14027	Perfluorononanoic acid	375-95-1	0.28	U	0.28	0.57	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.99	U	0.99	2.3	1
14027	Perfluorooctanoic acid	335-67-1	3.0		0.42	0.85	1
14027	Perfluorotetradecanoic acid	376-06-7	0.42	U	0.42	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.85	U	0.85	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.42	U	0.42	0.85	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	26,000		516	1,550	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	29.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 14:34	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1

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

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Analysis Report

Sample Description: Peace Farm 0"to6" Grab Soil
500 McCulough Road

LL Sample # SW 8377465
LL Group # 1660039
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 14:10 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:02

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

PF-01 SDG#: SGP76-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16139049531A	05/19/2016 00:39	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820003A	05/16/2016 22:56	Scott W Freisher	1

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

Sample Description: Peace Farm 6"to12" Grab Soil
500 McCulough Road

LL Sample # SW 8377466
LL Group # 1660039
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 14:15 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:02

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

PF-02 SDG#: SGP76-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.77	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.90	U	0.90	2.0	1
14027	Perfluorooctanoic acid	335-67-1	3.4		0.38	0.77	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.77	U	0.77	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.77	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	20,900		766	2,300	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 15:13	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1

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

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Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Peace Farm 6"to12" Grab Soil
500 McCulough Road

LL Sample # SW 8377466
LL Group # 1660039
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 14:15 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:02

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

PF-02 SDG#: SGP76-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16139049531A	05/19/2016 01:02	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820003A	05/16/2016 22:56	Scott W Freisher	1

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

Sample Description: Peace Farm 12"to18" Grab Soil
500 McCulough Road

LL Sample # SW 8377467
LL Group # 1660039
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 14:30 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:02

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

PF-03 SDG#: SGP76-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.71	U	0.71	2.3	1
14027	Perfluorodecanoic acid	335-76-2	0.28	U	0.28	0.56	1
14027	Perfluorododecanoic acid	307-55-1	0.56	U	0.56	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.42	U	0.42	0.85	1
14027	Perfluorohexanesulfonate	355-46-4	0.71	U	0.71	2.3	1
14027	Perfluorohexanoic acid	307-24-4	0.28	U	0.28	0.56	1
14027	Perfluorononanoic acid	375-95-1	0.28	U	0.28	0.56	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.99	U	0.99	2.3	1
14027	Perfluorooctanoic acid	335-67-1	5.1		0.42	0.85	1
14027	Perfluorotetradecanoic acid	376-06-7	0.42	U	0.42	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.85	U	0.85	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.42	U	0.42	0.85	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	23,700		1,070	3,200	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	29.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 15:33	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1

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

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: Peace Farm 12"to18" Grab Soil
500 McCulough Road

LL Sample # SW 8377467
LL Group # 1660039
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 14:30 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:02

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

PF-03 SDG#: SGP76-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16139049531A	05/19/2016 01:46	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820003A	05/16/2016 22:56	Scott W Freisher	1

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

Sample Description: Peace Farm 18"to24" Grab Soil
500 McCulough Road

LL Sample # SW 8377468
LL Group # 1660039
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 14:40 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:02

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

PF-04 SDG#: SGP76-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.70	U	0.70	2.2	1
14027	Perfluorodecanoic acid	335-76-2	0.28	U	0.28	0.56	1
14027	Perfluorododecanoic acid	307-55-1	0.56	U	0.56	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.42	U	0.42	0.84	1
14027	Perfluorohexanesulfonate	355-46-4	0.70	U	0.70	2.2	1
14027	Perfluorohexanoic acid	307-24-4	0.28	U	0.28	0.56	1
14027	Perfluorononanoic acid	375-95-1	0.28	U	0.28	0.56	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.98	U	0.98	2.2	1
14027	Perfluorooctanoic acid	335-67-1	6.5		0.42	0.84	1
14027	Perfluorotetradecanoic acid	376-06-7	0.42	U	0.42	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.84	U	0.84	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.42	U	0.42	0.84	1

The recovery for a target analyte (PFTeDA) in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

The recovery for perfluorododecanoic acid in the Laboratory Control Spike is outside the QC acceptance limits as noted on the QC Summary. The LCS was re-injected outside the extract holding time and recovery was within specifications. All data is included in data package.

Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	15,300	819	2,460	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00111	Moisture	n.a.	28.7	0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16153005	06/24/2016 15:52	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16153005	06/02/2016 13:30	Jason W Knight	1

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

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Analysis Report

Sample Description: Peace Farm 18"to24" Grab Soil
500 McCulough Road

LL Sample # SW 8377468
LL Group # 1660039
Account # 37191

Project Name: SGPP - Bennington

Collected: 05/11/2016 14:40 by LC

Submitted: 05/12/2016 09:30
Reported: 07/08/2016 15:02

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

PF-04 SDG#: SGP76-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16139049531A	05/19/2016 02:18	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820003A	05/16/2016 22:56	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/08/2016 15:02

Group Number: 1660039

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/g		ng/g	ng/g
Batch number: 16153005	Sample number(s): 8377465-8377468			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	mg/kg		mg/kg	mg/kg
Batch number: 16139049531A	Sample number(s): 8377465-8377468			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16153005	Sample number(s): 8377465-8377468								
Perfluorobutanesulfonate	17.68	17.9			101		70-130		
Perfluorodecanoic acid	20	20.2			101		70-130		
Perfluorododecanoic acid	20	5.02			25*		70-130		
Perfluoroheptanoic acid	20	19			95		70-130		
Perfluorohexanesulfonate	18.92	19.9			105		70-130		
Perfluorohexanoic acid	20	20			100		70-130		
Perfluorononanoic acid	20	19.4			97		70-130		
Perfluoro-octanesulfonate	19.12	20			105		70-130		
Perfluorooctanoic acid	20	20.5			103		70-130		
Perfluorotetradecanoic acid	20	40.9			205*		70-130		
Perfluorotridecanoic acid	20	19.6			98		70-130		
Perfluoroundecanoic acid	20	18.6			93		70-130		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16139049531A	Sample number(s): 8377465-8377468								
TOC	5430	5141.64			95		47-143		

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/08/2016 15:02

Group Number: 1660039

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	%	%	%	%					
Batch number: 16137820003A	Sample number(s): 8377465-8377468								
Moisture	89.5	89.48			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16153005	Sample number(s): 8377465-8377468 UNSPK: 8377457										
Perfluorobutanesulfonate	0.50	U	17.68	16.5	17.68	17.7	93	100	70-130	7	30
Perfluorodecanoic acid	0.20	U	20	19.3	20	23.1	97	116	70-130	18	30
Perfluorododecanoic acid	0.40	U	20	10.1	20	9.90	51*	50*	70-130	2	30
Perfluoroheptanoic acid	0.30	U	20	19	20	19.9	95	100	70-130	5	30
Perfluorohexanesulfonate	0.50	U	18.92	20.5	18.92	20.7	108	109	70-130	1	30
Perfluorohexanoic acid	0.20	U	20	19.3	20	19.8	97	99	70-130	3	30
Perfluorononanoic acid	0.20	U	20	22.3	20	20.2	112	101	70-130	10	30
Perfluoro-octanesulfonate	0.70	U	19.12	20.2	19.12	21.9	106	115	70-130	8	30
Perfluorooctanoic acid	1.84		20	23.1	20	23.2	106	107	70-130	0	30
Perfluorotetradecanoic acid	0.30	U	20	20.2	20	24.5	101	123	70-130	19	30
Perfluorotridecanoic acid	0.60	U	20	11.1	20	7.94	56*	40*	70-130	33*	30
Perfluoroundecanoic acid	0.30	U	20	20.1	20	24.7	101	124	70-130	21	30
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16139049531A	Sample number(s): 8377465-8377468 UNSPK: P377457										
TOC	2950.03		27298	31428.57			104		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16139049531A	Sample number(s): 8377465-8377468 BKG: P377457			
TOC	2950.03	3144.27	6	7
	%	%		
Batch number: 16137820003A	Sample number(s): 8377465-8377468 BKG: P377917			
Moisture	6.18	6.30	2	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/08/2016 15:02

Group Number: 1660039

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Environmental Services Analysis Request/Chain of Custody

Acct. #: 37191 Group #: 1660039 Sample #: 8377465-68

COC#: 14597

Client: C.T. Male Associates	
Project Name/#: 16.6131	Site ID: 500 McCullough Road
Project Manager: Kirk Moline	P.O. #:
Sampler: Larene Cameron	
Phone #: 518-786-7502	Quote #: 214135
State where sample(s) were collected: VT	

For Lab Use Only
SF#: 271284
SCR#: 188162

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / Ground / Surface / NPDES)	Matrix: Sediment	Matrix: Other:	Total # of Containers	PFCs (EPA 537 mod.)	Remarks
PEACE FARM 0" to 6"	5-11-16	1410	X		X				1	X	
PEACE FARM 6" to 12"	5-11-16	1415	X		X				1	X	
PEACE FARM 12" to 18"	5-11-16	1430	X		X				1	X	
PEACE FARM 18" to 24"	5-11-16	1440	X		X				1	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ RUSH ☐
(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)
Date results are needed:
E-mail address to send RUSH results:

Data Package Options (please check if required)
Type I (Validation/non-CLP) ☐ MA MCP ☐ TX TRRP - 13 ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type IV (CLP SOW) ☐ ASP Type A ☐
Type VI (Raw Data Only) ☐ ASP Type B ☑
EDD Format:

If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.

Relinquished by:	Date	Time	Received by:	Date	Time
Edwin Hernandez	5/6/16	1145	Larene Cameron	5/6/16	1145
Larene Cameron	5/11/16	1710			
			Received by:	Date	Time
				5-12-16	930

Airbill No.:
Relinquished by Commercial Carrier:
UPS ____ FedEx X Other ____

Temperature upon receipt 1.6 °C

eurofins Lancaster Laboratories

Environmental Services Analysis Request/Chain of Custody

Acct #: 37191 Group #: 166039 Sample #: 537465-68

COC#: 14598

Client: C.T. Male Associates

Project Name/#: 16.6131 Site ID: 580 McCullough Road

Project Manager: Kirk Moline P.O. #:

Sampler: Larene Cameron

Phone #: 518-786-7502 Quote #: 214135

State where sample(s) were collected: VT

For Lab Use Only

SF#: 266803

SCR#: 188458

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Potable Water	Ground Water	Surface Water	NPDES Water	Other:	Total # of Containers	SM 5310 B (mod. 2000)	Moisture (2540 G)	Remarks
PEACE FARM 0"to 6"	5-11-16	1410	X		X							1	X	X	
PEACE FARM 6" to 12"	5-11-16	1415	X		X							1	X	X	
PEACE FARM 12" to 18"	5-11-16	1430	X		X							1	X	X	
PEACE FARM 18" to 24"	5-11-16	1440	X		X							1	X	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ RUSH ☐

(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)

Date results are needed:

E-mail address to send RUSH results:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐ TX TRRP - 13 ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type IV (CLP SOW) ☐ ASP Type A ☐

Type VI (Raw Data Only) ☐ ASP Type B ☑

EDD Format:

If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.

Relinquished by:	Date	Time	Received by:	Date	Time
Larene Cameron	5-11-16	1710			

Airbill No.:

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 1.2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 146340

Group Number(s): 166039

Client: C.T. Male

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	05/12/2016 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S203
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 16:48 on 05/12/2016

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	1.6	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/19/2016
Group Number: 1642373
SDG: SGP05
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
6 Royal St 0" to 6" Grab Soil	8294109
6 Royal St 6" to 12" Grab Soil	8294110
6 Royal St 12" to 18" Grab Soil	8294111
6 Royal St 18" to 24" Grab Soil	8294112
22 Asa Way 0" to 6" Grab Soil	8294113
22 Asa Way 6" to 12" Grab Soil	8294114
5 Scarey Lane 0" to 6" Grab Soil	8294115
5 Scarey Lane 6" to 12" Grab Soil	8294116
5 Scarey Lane 12" to 18" Grab Soil	8294117
5 Scarey Lane 18" to 24" Grab Soil	8294118
Auger Rinse #2 Grab Blank Water	8294119
Transport Blank Water	8294120
32 Scarey Lane 0" to 6" Grab Soil	8294121
32 Scarey Lane 6" to 12" Grab Soil	8294122
32 Scarey Lane 12" to 18" Grab Soil	8294123
32 Scarey Lane 18" to 24" Grab Soil	8294124
15 Scarey Lane 0" to 6" Grab Soil	8294125
15 Scarey Lane 0" to 6" MS Grab Soil	8294126
15 Scarey Lane 0" to 6" MSD Grab Soil	8294127
15 Scarey Lane 0" to 6" Dupl Grab Soil	8294128
15 Scarey Lane 6" to 12" Grab Soil	8294129
15 Scarey Lane Duplicate Grab Soil	8294130
765 Murphy Rd 0" to 6" Grab Soil	8294131
765 Murphy Rd 6" to 12" Grab Soil	8294132
765 Murphy Rd 12" to 18" Grab Soil	8294133
765 Murphy Rd 18" to 24" Grab Soil	8294134
Bowl Rinse #2 Grab Blank Water	8294135

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642373

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8294119, 8294120, 8294135

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

Batch #: 16083003 (Sample number(s): 8294119-8294120, 8294135)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16083007 (Sample number(s): 8294129-8294134 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16081049531A (Sample number(s): 8294109-8294118 UNSPK: 8294109 BKG: 8294109)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16081049531B (Sample number(s): 8294121-8294126, 8294128-8294129, 8294131-8294134 UNSPK: 8294125 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16081820004B (Sample number(s): 8294122-8294133 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

Sample Description: 765 Murphy Rd 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294131
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 15:50 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0520 SDG#: SGP05-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.71	U	0.71	2.3	1
14027	Perfluorodecanoic acid	335-76-2	0.29	U	0.29	0.57	1
14027	Perfluorododecanoic acid	307-55-1	0.57	U	0.57	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.43	U	0.43	0.86	1
14027	Perfluorohexanesulfonate	355-46-4	0.71	U	0.71	2.3	1
14027	Perfluorohexanoic acid	307-24-4	0.29	U	0.29	0.57	1
14027	Perfluorononanoic acid	375-95-1	0.34	J	0.29	0.57	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.3	J	1.0	2.3	1
14027	Perfluorooctanoic acid	335-67-1	6.4		0.43	0.86	1
14027	Perfluorotetradecanoic acid	376-06-7	0.43	U	0.43	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.86	U	0.86	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.43	U	0.43	0.86	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	20,400		536	1,610	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	30.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083007	03/26/2016 22:14	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 01:53	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 765 Murphy Rd 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294132
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 16:00 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0521 SDG#: SGP05-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.76	U	0.76	2.4	1
14027	Perfluorodecanoic acid	335-76-2	0.30	U	0.30	0.61	1
14027	Perfluorododecanoic acid	307-55-1	0.61	U	0.61	1.2	1
14027	Perfluoroheptanoic acid	375-85-9	0.46	U	0.46	0.91	1
14027	Perfluorohexanesulfonate	355-46-4	0.76	U	0.76	2.4	1
14027	Perfluorohexanoic acid	307-24-4	0.30	U	0.30	0.61	1
14027	Perfluorononanoic acid	375-95-1	0.30	U	0.30	0.61	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.1	U	1.1	2.4	1
14027	Perfluorooctanoic acid	335-67-1	6.3		0.46	0.91	1
14027	Perfluorotetradecanoic acid	376-06-7	0.46	U	0.46	1.2	1
14027	Perfluorotridecanoic acid	72629-94-8	0.91	U	0.91	1.8	1
14027	Perfluoroundecanoic acid	2058-94-8	0.46	U	0.46	0.91	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	13,200		459	1,380	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	34.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083007	03/26/2016 22:28	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 02:36	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 765 Murphy Rd 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294133
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 16:12 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0522 SDG#: SGP05-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.67	U	0.67	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.27	U	0.27	0.53	1
14027	Perfluorododecanoic acid	307-55-1	0.53	U	0.53	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.40	U	0.40	0.80	1
14027	Perfluorohexanesulfonate	355-46-4	0.67	U	0.67	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.27	U	0.27	0.53	1
14027	Perfluorononanoic acid	375-95-1	0.27	U	0.27	0.53	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.94	U	0.94	2.1	1
14027	Perfluorooctanoic acid	335-67-1	2.6		0.40	0.80	1
14027	Perfluorotetradecanoic acid	376-06-7	0.40	U	0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.80	U	0.80	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.40	U	0.40	0.80	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,220		222	666	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	25.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083007	03/26/2016 22:42	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 02:19	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 765 Murphy Rd 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294134
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 16:23 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0523 SDG#: SGP05-23

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	0.50	U	0.50	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.88	U	0.88	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.6		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	3,440		210	631	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	20.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083007	03/26/2016 22:56	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 02:27	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820003A	03/21/2016 14:11	Larry E Bevins	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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/g		ng/g	ng/g
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16083007	Sample number(s): 8294129-8294134			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16081049531A	Sample number(s): 8294109-8294118			
TOC	100	U	100	300
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127								
Perfluorobutanesulfonate	20	19.13			96		70-130		
Perfluorodecanoic acid	20	20.15			101		70-130		
Perfluorododecanoic acid	20	21.22			106		70-130		
Perfluoroheptanoic acid	20	23.61			118		70-130		
Perfluorohexanesulfonate	20	16.81			84		70-130		
Perfluorohexanoic acid	20	18.65			93		70-130		
Perfluorononanoic acid	20	21.45			107		70-130		
Perfluoro-octanesulfonate	20	19.23			96		70-130		
Perfluorooctanoic acid	20	18.42			92		70-130		
Perfluorotetradecanoic acid	20	17.58			88		70-130		
Perfluorotridecanoic acid	20	19.08			95		70-130		
Perfluoroundecanoic acid	20	21.06			105		70-130		
Batch number: 16083007	Sample number(s): 8294129-8294134								
Perfluorobutanesulfonate	20	16.31			82		70-130		
Perfluorodecanoic acid	20	20.04			100		70-130		
Perfluorododecanoic acid	20	19.69			98		70-130		
Perfluoroheptanoic acid	20	23.65			118		70-130		
Perfluorohexanesulfonate	20	21.63			108		70-130		
Perfluorohexanoic acid	20	20.64			103		70-130		
Perfluorononanoic acid	20	17.96			90		70-130		
Perfluoro-octanesulfonate	20	19.76			99		70-130		
Perfluorooctanoic acid	20	19.43			97		70-130		
Perfluorotetradecanoic acid	20	20.15			101		70-130		
Perfluorotridecanoic acid	20	20.23			101		70-130		
Perfluoroundecanoic acid	20	20.17			101		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118								
TOC	5430	5548.1			102		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134								
TOC	5430	5548.1			102		47-143		
	%	%	%	%					
Batch number: 16081820003A	Sample number(s): 8294134								
Moisture	89.5	89.47			100		99-101		
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121								
Moisture	89.5	89.53			100		99-101		
Batch number: 16081820004B	Sample number(s): 8294122-8294133								
Moisture	89.5	89.53			100		99-101		
Moisture	89.5	89.53			100		99-101		
Moisture Duplicate	89.5	89.53			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127 UNSPK: 8294125									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	17.21	84	86	70-130	3	30
Perfluorodecanoic acid	1.51	20	22.99	20	22.62	107	106	70-130	2	30
Perfluorododecanoic acid	0.826	20	21.78	20	22.23	105	107	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	23.26	20	20.21	116	101	70-130	14	30
Perfluorohexanesulfonate	0.50 U	20	19.99	20	18.07	100	90	70-130	10	30
Perfluorohexanoic acid	0.292	20	19.68	20	18.57	97	91	70-130	6	30
Perfluorononanoic acid	0.339	20	21.68	20	21.51	107	106	70-130	1	30
Perfluoro-octanesulfonate	0.70 U	20	14.5	20	15.09	72	75	70-130	4	30
Perfluorooctanoic acid	1.13	20	20.62	20	20.3	97	96	70-130	2	30
Perfluorotetradecanoic acid	0.30 U	20	18.21	20	20.02	91	100	70-130	9	30
Perfluorotridecanoic acid	0.60 U	20	20.28	20	19.02	101	95	70-130	6	30
Perfluoroundecanoic acid	1.03	20	19.61	20	21	93	100	70-130	7	30
Batch number: 16083007	Sample number(s): 8294129-8294134 UNSPK: 8294129									
Perfluorobutanesulfonate	0.50 U	20	20.49	20	15.85	102	79	70-130	26	30
Perfluorodecanoic acid	1.06	20	25.19	20	24.46	121	117	70-130	3	30
Perfluorododecanoic acid	0.478	20	21.26	20	24.16	104	118	70-130	13	30
Perfluoroheptanoic acid	0.30 U	20	23.28	20	25.27	116	126	70-130	8	30
Perfluorohexanesulfonate	0.50 U	20	17.34	20	12.17	87	61*	70-130	35*	30
Perfluorohexanoic acid	0.264	20	21.43	20	20.18	106	100	70-130	6	30
Perfluorononanoic acid	0.388	20	21.82	20	20.99	107	103	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	15.84	20	24.76	79	124	70-130	44*	30
Perfluorooctanoic acid	1.06	20	23.61	20	21.75	113	103	70-130	8	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotetradecanoic acid	0.30 U	20	20.41	20	24.03	102	120	70-130	16	30
Perfluorotridecanoic acid	0.60 U	20	17.55	20	22.39	88	112	70-130	24	30
Perfluoroundecanoic acid	0.457	20	21.24	20	22.78	104	112	70-130	7	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118 UNSPK: 8294109									
TOC	7485.57	41494	54951.59			114		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 UNSPK: 8294125									
TOC	17171.34	60852	89858.01			119		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16081049531A	Sample number(s): 8294109-8294118 BKG: 8294109			
TOC	7485.57	8675.88	15*	7
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 BKG: 8294125			
TOC	17171.34	18766.82	9*	7
	%	%		
Batch number: 16081820003A	Sample number(s): 8294134 BKG: P293163			
Moisture	17.64	17.91	2	5
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121 BKG: 8294121			
Moisture	21.05	20.45	3	5
Batch number: 16081820004B	Sample number(s): 8294122-8294133 BKG: 8294125, P294125			
Moisture	23.09	19.86	15*	5
Moisture	23.09	19.86	15*	5
Moisture Duplicate	23.09	19.86	15*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493356

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground Water	Potable	Surface	NPDES	Other:	Total # of Containers	EPA 537	Moisture	TOC	Remarks
6 Royal St 0" to 6"	3/17/16	0946	✓			✓						3	X	X	X	
6 Royal St 6" to 12"	3/17/16	0952	✓			✓						3	X	X	X	
6 Royal St 12" to 18"	3/17/16	1001	✓			✓						3	X	X	X	
6 Royal St 18" to 24"	3/17/16	1015	✓			✓						3	X	X	X	
22 Asa Way 0" to 6"	3/17/16	1050	✓			✓						2	X	X	X	
22 Asa Way 6" to 12"	3/17/16	1100	✓			✓						2	X	X	X	
LC ~~22 Asa Way 12" to 18"~~			✓			✓										
LC ~~22 Asa Way 18" to 24"~~			✓			✓										
5 Scarey Lane 0" to 6"	3/17/16	1148	✓			✓						2	X	X	X	
5 Scarey Lane 6" to 12"	3/17/16	1200	✓			✓						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1647373 Sample # 8294109-35

COC # 493358

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Potable ☐	Surface ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537						Remarks
																O							
5 Scarey Lane 12" to 18"	3/17/16	1208	X			X							2	X	X	X							
5 Scarey Lane 18" to 24"	3/17/16	1217	X			X							2	X	X	X							
Auger Rinse #2	3/17/16	1222	X					X					2	~~X~~		~~X~~ X							Lab DI Water
Transport Blank	3/17/16	—	X					X					1	~~X~~		~~X~~ X							Lab provided
32 Scarey Lane 0" to 6"	3/17/16	1328	X			X							2	X	X	X							
32 Scarey Lane 6" to 12"	3/17/16	1338	X			X							2	X	X	X							
32 Scarey Lane 12" to 18"	3/17/16	1343	X			X							2	X	X	X							
32 Scarey Lane 18" to 24"	3/17/16	1352	X			X							2	X	X	X							
15 Scarey Lane 0" to 6"	3/17/16	1445	X			X							4	X	X	X							MS/MSD here
15 Scarey Lane 6" to 12"	3/17/16	1500	X			X							2	X	X	X							

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/18/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493359

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Soil ☒	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537							Remarks
																	9							
15 Searey Lane Duplicate	3/17/16	1450	X							X			1	X										
765 Murphy Rd 0" to 6"	3/17/16	1550	X							X			2	X	X	X								
765 Murphy Rd 6" to 12"	3/17/16	1600	X							X			2	X	X	X								
765 Murphy Rd 12" to 18"	3/17/16	1612	X							X			2	X	X	X								
765 Murphy Rd 18" to 24"	3/17/16	1623	X							X			2	X	X	X								
Bowl Rinse #2	3/17/16	1840	X					X					2				X							Lab DI Water

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	07:11
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140007

Group Number(s): 1642373

Client: CT Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/19/2016 9:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 250mL Na2S2O3 Preserved Poly

Unpacked by Patrick Engle (3472) at 10:46 on 03/19/2016

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	DT121	4.8	DT	Wet	Y	Bagged	N
2	DT121	4.5	DT	Wet	Y	Bagged	N
3	DT121	3.1	DT	Wet	Y	Bagged	N
4	DT121	4.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: June 23, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 05/12/2016
Group Number: 1660037
SDG: SGP74
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Murphy Rd. Farmland 0"to6" Grab Soil	8377451
Murphy Rd. Farmland 6"to12" Grab Soil	8377452
Murphy Rd. Farmland 12"to18" Grab Soil	8377453
Murphy Rd. Farmland 18"to24" Grab Soil	8377454

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1660037

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16138049531B (Sample number(s): 8377451-8377454 UNSPK: 8377454 BKG: 8377454)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: Murphy Rd. Farmland 0"to6" Grab Soil
Murphy Rd Agricultural Land

LL Sample # SW 8377451
LL Group # 1660037
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 05/11/2016 10:35 by LC

Submitted: 05/12/2016 09:30
Reported: 06/23/2016 10:24

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

MRF-1 SDG#: SGP74-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.69	JB	0.66	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.69		0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.52	U	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.79	1
14027	Perfluorohexanesulfonate	355-46-4	0.66	U	0.66	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.92	U	0.92	2.1	1
14027	Perfluorooctanoic acid	335-67-1	0.68	J	0.39	0.79	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.79	U	0.79	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.53	J	0.39	0.79	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,300		781	2,340	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	23.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16152008	06/17/2016 06:26	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16152008	06/02/2016 13:15	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16138049531B	05/18/2016 02:22	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820002B	05/17/2016 00:18	Scott W Freisher	1

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

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Analysis Report

Sample Description: Murphy Rd. Farmland 6"to12" Grab Soil
Murphy Rd Agricultural Land

LL Sample # SW 8377452
LL Group # 1660037
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 05/11/2016 10:44 by LC

Submitted: 05/12/2016 09:30
Reported: 06/23/2016 10:24

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

MRF-2 SDG#: SGP74-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.67	JB	0.64	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.52	U	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.77	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.39	J	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.90	U	0.90	2.1	1
14027	Perfluorooctanoic acid	335-67-1	3.9		0.39	0.77	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.77	U	0.77	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.77	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	12,700		689	2,070	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	22.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16152008	06/17/2016 06:45	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16152008	06/02/2016 13:15	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16138049531B	05/18/2016 02:38	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820002B	05/17/2016 00:18	Scott W Freisher	1

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

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Analysis Report

Sample Description: Murphy Rd. Farmland 12"to18" Grab Soil
Murphy Rd Agricultural Land

LL Sample # SW 8377453
LL Group # 1660037
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 05/11/2016 11:15 by LC

Submitted: 05/12/2016 09:30
Reported: 06/23/2016 10:24

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

MRF-3 SDG#: SGP74-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.69	JB	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.52	U	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.40	J	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	0.65	U	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.89		0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.91	U	0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	12		0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.78	U	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.78	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,000		623	1,870	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	23.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16152008	06/17/2016 07:04	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16152008	06/02/2016 13:15	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16138049531B	05/18/2016 02:56	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820002B	05/17/2016 00:18	Scott W Freisher	1

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

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Analysis Report

Sample Description: Murphy Rd. Farmland 18"to24" Grab Soil
Murphy Rd Agricultural Land

LL Sample # SW 8377454
LL Group # 1660037
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 05/11/2016 11:20 by LC

Submitted: 05/12/2016 09:30
Reported: 06/23/2016 10:24

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

MRF-4 SDG#: SGP74-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.69	JB	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.52	U	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	0.65	U	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.38	J	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.91	U	0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	8.7		0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.78	U	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.78	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,030		377	1,130	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	23.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16152008	06/17/2016 07:24	Marissa C Drexinger	1
14090	PFC Solid Prep	EPA 537 Rev. 1.1 modified	1	16152008	06/02/2016 13:15	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16138049531B	05/18/2016 03:12	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16137820002B	05/17/2016 00:18	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 06/23/2016 10:24

Group Number: 1660037

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/g		ng/g	ng/g
Batch number: 16152008	Sample number(s): 8377451-8377454			
Perfluorobutanesulfonate	0.53	J	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	mg/kg		mg/kg	mg/kg
Batch number: 16138049531B	Sample number(s): 8377451-8377454			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16152008	Sample number(s): 8377451-8377454								
Perfluorobutanesulfonate	17.8	16.3			92		70-130		
Perfluorodecanoic acid	20	20.1			101		70-130		
Perfluorododecanoic acid	20	21.7			109		70-130		
Perfluoroheptanoic acid	20	18.5			93		70-130		
Perfluorohexanesulfonate	18.92	19.2			101		70-130		
Perfluorohexanoic acid	20	16.3			82		70-130		
Perfluorononanoic acid	20	18.2			91		70-130		
Perfluoro-octanesulfonate	19.12	20.9			109		70-130		
Perfluorooctanoic acid	20	19.2			96		70-130		
Perfluorotetradecanoic acid	20	19.1			96		70-130		
Perfluorotridecanoic acid	20	18.4			92		70-130		
Perfluoroundecanoic acid	20	23			115		70-130		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16138049531B	Sample number(s): 8377451-8377454								
TOC	5430	7343.66	5430	4831.89	135	89	47-143	41*	20

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 06/23/2016 10:24

Group Number: 1660037

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	%	%	%	%					
Batch number: 16137820002B	Sample number(s): 8377451-8377454								
Moisture	89.5	89.53			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16152008	Sample number(s): 8377451-8377454 UNSPK: 8369048									
Perfluorobutanesulfonate	0.527	17.8	15.8	17.8	15.8	86	86	70-130	0	30
Perfluorodecanoic acid	0.20 U	20	19.8	20	22.4	99	112	70-130	12	30
Perfluorododecanoic acid	0.40 U	20	17.6	20	19	88	95	70-130	8	30
Perfluoroheptanoic acid	0.30 U	20	16.6	20	18.3	83	92	70-130	10	30
Perfluorohexanesulfonate	0.50 U	18.92	19.6	18.92	18.2	104	96	70-130	7	30
Perfluorohexanoic acid	0.20 U	20	17.3	20	20.7	87	104	70-130	18	30
Perfluorononanoic acid	0.368	20	22.5	20	21.1	111	104	70-130	6	30
Perfluoro-octanesulfonate	2.72	19.12	23.5	19.12	22.6	109	104	70-130	4	30
Perfluorooctanoic acid	0.365	20	19.8	20	20.3	97	100	70-130	2	30
Perfluorotetradecanoic acid	0.30 U	20	16.2	20	18.6	81	93	70-130	14	30
Perfluorotridecanoic acid	0.60 U	20	16	20	18.1	80	91	70-130	12	30
Perfluoroundecanoic acid	0.30 U	20	21.2	20	20.6	106	103	70-130	3	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16138049531B	Sample number(s): 8377451-8377454 UNSPK: 8377454									
TOC	6182.61	39526	46693.02			102		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16138049531B	Sample number(s): 8377451-8377454 BKG: 8377454			
TOC	6182.61	5822.75	6	7
	%	%		
Batch number: 16137820002B	Sample number(s): 8377451-8377454 BKG: P377402			
Moisture	18.91	18.6	2	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 06/23/2016 10:24

Group Number: 1660037

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Environmental Services Analysis Request/Chain of Custody

Acct. #: 37191 Group #: 1660037 Sample #: 8377451-54

COC#: 14597

Client: C.T. Male Associates

Project Name/#: 16.6131 Site ID: Murphy Rd Agricultural Land

Project Manager: Kirk Moline P.O. #:

Sampler: Larene Cameron

Phone #: 518-786-7502 Quote #: 214135

State where sample(s) were collected: VT

For Lab Use Only

SF#: 271284

SCR#: 188162

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Soil	Water	Other:	Total # of Containers	PFCs (EPA 537 mod.)	Remarks
Murphy Rd. Farmland 0"+06"	5-11-16	1035	X							X			1	X	
Murphy Rd. Farmland 6"+012"	5-11-16	1044	X							X			1	X	
Murphy Rd. Farmland 12"+018"	5-11-16	1115	X							X			1	X	
Murphy Rd. Farmland 18"+024"	5-11-16	1120	X							X			1	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ RUSH ☐

(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)

Date results are needed:

E-mail address to send RUSH results:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐ TX TRRP - 13 ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type IV (CLP SOW) ☐ ASP Type A ☐

Type VI (Raw Data Only) ☐ ASP Type B ☑

EDD Format:

If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.

Relinquished by:	Date	Time	Received by:	Date	Time
Larene Cameron	5-11-16	1710			

Airbill No.:

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 1.6 °C

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Environmental Services Analysis Request/Chain of Custody

Acct. #: 37191 Group #: 1660037 Sample #: 8377451-54 COC#: 14598

Client: C.T. Male Associates
Project Name/#: 16.6131 Site ID: Murphy Rd Agricultural Land
Project Manager: Kirk Moline P.O. #:
Sampler: Larene Cameron
Phone #: 518-786-7502 Quote #: 214135
State where sample(s) were collected: VT

For Lab Use Only
SF#: 266803
SCR#: 186458

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Matrix: Sediment ☐ / Soil ☒; Water: Ground ☐ Surface ☐ Potable ☐ NPDES ☐; Other:

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Water	Other	Total # of Containers	SM 5310 B (mod. 2000)	Moisture (2540 G)	Remarks
Murphy Rd. Farmland 0" to 6"	5-11-16	1035	X		X			1	X	X	
Murphy Rd. Farmland 6" to 12"	5-11-16	1044	X		X			1	X	X	
Murphy Rd. Farmland 12" to 18"	5-11-16	1115	X		X			1	X	X	
Murphy Rd. Farmland 18" to 24"	5-11-16	1120	X		X			1	X	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ RUSH ☐
(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)
Date results are needed:
E-mail address to send RUSH results:

Data Package Options (please check if required)
Type I (Validation/non-CLP) ☐ MA MCP ☐ TX TRRP - 13 ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type IV (CLP SOW) ☐ ASP Type A ☐
Type VI (Raw Data Only) ☐ ASP Type B ☑

EDD Format:

If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.

Relinquished by	Date	Time	Received by	Date	Time
Edwin Hernandez	5/6	11:10	Larene Cameron	5/6	11:10
Larene Cameron	5/11/16	1710			
			[signature]	5-12-16	930

Airbill No.:
Relinquished by Commercial Carrier:
UPS ____ FedEx X Other ____
Temperature upon receipt 1.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 146340

Group Number(s): 166037

Client: C.T. Male

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	05/12/2016 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S203
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 16:48 on 05/12/2016

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	1.6	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 01, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/23/2016
Group Number: 1643263
SDG: SGP09
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Pembroke Stockpile 1 Grab Soil	8298601
29 Lever St 0" to 6" Grab Soil	8298602
29 Lever St 6" to 12" Grab Soil	8298603
29 Lever St 12" to 18" Grab Soil	8298604
29 Lever St 18" to 24" Grab Soil	8298605
2009 N Bennington Rd 0" to 6" Grab Soil	8298606
2009 N Bennington Rd 6" to 12" Grab Soil	8298607
2009 N Bennington Rd 12" to 18" Grab Soil	8298608
9 School St Maple Tree 0" to 6" Grab Soil	8298609
9 School St Maple Tree 6" to 12" Grab Soil	8298610
9 School St Maple Tree 12" to 18" Grab Soil	8298611
9 School St NE Corner PL 0" to 6" Grab Soil	8298612
9 School St NE Corner PL 6" to 12" Grab Soil	8298613
9 School St NE Corner PL 12" to 18" Grab Soil	8298614
9 School St NE Corner PL Duplicate Grab Soil	8298615
Auger Rinse #6 Grab Blank Water	8298616
Bowl Rinse #6 Grab Blank Water	8298617
Transport Blank 032216 Water	8298618
WWTP Liquid Grab Sludge	8298619
Pembroke Garden 0" to 6" Grab Soil	8298620
Pembroke Garden 0" to 6" MS Grab Soil	8298621
Pembroke Garden 0" to 6" MSD Grab Soil	8298622
Pembroke Garden 0" to 6" Dupl Grab Soil	8298623
Pembroke Garden 6" to 12" Grab Soil	8298624
Pembroke Garden 12" to 18" Grab Soil	8298625
Pembroke Garden 18" to 24" Grab Soil	8298626
Pembroke Stockpile 2 Grab Soil	8298627

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643263

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8298616-8298619 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16085005 (Sample number(s): 8298601-8298615, 8298620-8298622, 8298624-8298627 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16085049531A (Sample number(s): 8298601-8298609 UNSPK: 8298609 BKG: 8298609)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631A (Sample number(s): 8298620-8298621, 8298623-8298627 UNSPK: 8298620 BKG: 8298620)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631B (Sample number(s): 8298610-8298612 UNSPK: 8298611 BKG: 8298611)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949632A (Sample number(s): 8298613-8298614 UNSPK: 8298613 BKG: 8298613)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: 2009 N Bennington Rd 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298606
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 11:31 by LC

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

P0901 SDG#: SGP09-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	4.3		0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	2.4		0.50	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.51		0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	1.1		0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.3		0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	4.2		0.37	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	1.3		0.37	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	2.2		0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	2.5		0.37	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	21,800		1,520	4,570	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 01:00	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 13:04	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 2009 N Bennington Rd 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298607
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 11:37 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.60		0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	1.3		0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	U	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	4.9		0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	5,970		237	711	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 01:15	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/26/2016 00:16	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 2009 N Bennington Rd 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298608
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 11:52 by LC

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

P0901 SDG#: SGP09-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.77	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.36	J	0.26	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	45		0.38	0.77	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.77	U	0.77	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.77	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,400		995	2,980	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 01:29	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 13:42	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

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/g		ng/g	ng/g
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8298616-8298619			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16085049531A	Sample number(s): 8298601-8298609			
TOC	100	U	100	300
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627			
TOC	100	U	100	300
Batch number: 16085949631B	Sample number(s): 8298610-8298612			
TOC	100	U	100	300
Batch number: 16085949632A	Sample number(s): 8298613-8298614			
TOC	100	U	100	300

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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627								
Perfluorobutanesulfonate	20	15.48			77		70-130		
Perfluorodecanoic acid	20	18.64			93		70-130		
Perfluorododecanoic acid	20	18.1			91		70-130		
Perfluoroheptanoic acid	20	14.93			75		70-130		
Perfluorohexanesulfonate	20	17.86			89		70-130		
Perfluorohexanoic acid	20	16.82			84		70-130		
Perfluorononanoic acid	20	16.54			83		70-130		
Perfluoro-octanesulfonate	20	16.03			80		70-130		
Perfluorooctanoic acid	20	16.71			84		70-130		
Perfluorotetradecanoic acid	20	19.16			96		70-130		
Perfluorotridecanoic acid	20	17.51			88		70-130		
Perfluoroundecanoic acid	20	18.55			93		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609								
TOC	5430	4355.58			80		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614								
TOC	5430	5633.66			104		47-143		
	%	%	%	%					
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		
Batch number: 16083820007B	Sample number(s): 8298624-8298627								
Moisture	89.5	89.47			100		99-101		

MS/MSD

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627 UNSPK: 8298620										
Perfluorobutanesulfonate	0.50	U	20	19.77	20	17.06	99	85	70-130	15	30
Perfluorodecanoic acid	0.20	U	20	19.35	20	20.85	97	104	70-130	7	30
Perfluorododecanoic acid	0.40	U	20	19.96	20	20.51	100	103	70-130	3	30
Perfluoroheptanoic acid	0.30	U	20	17.45	20	19.01	87	95	70-130	9	30
Perfluorohexanesulfonate	0.50	U	20	16.01	20	22.29	80	111	70-130	33*	30
Perfluorohexanoic acid	0.20	U	20	20.75	20	19.87	104	99	70-130	4	30
Perfluorononanoic acid	0.285		20	17.53	20	18.76	86	92	70-130	7	30
Perfluoro-octanesulfonate	0.70	U	20	22.25	20	20.85	111	104	70-130	7	30
Perfluorooctanoic acid	0.621		20	20.15	20	21.78	98	106	70-130	8	30
Perfluorotetradecanoic acid	0.30	U	20	18.9	20	22.87	95	114	70-130	19	30
Perfluorotridecanoic acid	0.60	U	20	20.16	20	18.01	101	90	70-130	11	30
Perfluoroundecanoic acid	0.30	U	20	19.31	20	21.05	97	105	70-130	9	30
	ng/l		ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619 UNSPK: 8298619										
Perfluorooctanoic acid	353.46		200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77		200	212.06			100		70-130		
Perfluorodecanoic acid	4	U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24		200	217.48			105		70-130		
Perfluorododecanoic acid	10	U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8	U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10	U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4	U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94		200	220.71			94		70-130		
Perfluorobutanesulfonate	20	U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20	U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20	U	200	277.75			139*		70-130		
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609 UNSPK: 8298609										
TOC	7316.27		36330	38474.58			86		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 UNSPK: 8298620										
TOC	9011.75		15840	20898.05			75		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612 UNSPK: 8298611										
TOC	5226.63		40053	55767.69			126		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614 UNSPK: 8298613										
TOC	9810.05		17104	26157.35			96		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16085049531A	Sample number(s): 8298601-8298609 BKG: 8298609			

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
TOC	7316.27	3693.5	66* (1)	7
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 BKG: 8298620			
TOC	9011.75	7631.15	17*	7
Batch number: 16085949631B	Sample number(s): 8298610-8298612 BKG: 8298611			
TOC	5226.63	4793.28	9* (1)	7
Batch number: 16085949632A	Sample number(s): 8298613-8298614 BKG: 8298613			
TOC	9810.05	9008.73	9*	7
	%	%		
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623 BKG: 8298620, P298620			
Moisture	17.39	17.01	2	5
Moisture	17.39	17.01	2	5
Moisture Duplicate	17.39	17.01	2	5
Batch number: 16083820007B	Sample number(s): 8298624-8298627 BKG: 8298626			
Moisture	14.71	14.87	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643263 Sample # 8298601-27

COC # 493490

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
Pembroke Stockpile 1	3/22/16	0925		X		X							2	X	X	X	
29 Lever St 0" to 6"	3/22/16	1030	X			X							2	X	X	X	
29 Lever St 6" to 12"	3/22/16	1040	X			X							2	X	X	X	
29 Lever St 12" to 18"	3/22/16	1050	X			X							2	X	X	X	
29 Lever St 18" to 24"	3/22/16	1100	X			X							2	X	X	X	
2009 N. Bennington Rd 0"to6"	3/22/16	1131	X			X							2	X	X	X	
2009 N. Bennington Rd 6"to 12"	3/22/16	1137	X			X							2	X	X	X	
2009 N. Bennington Rd 12"to18"	3/22/16	1153	X			X							2	X	X	X	
9 School St Maple Tree 0"to6"	3/22/16	1254	X			X							2	X	X	X	
9 School St Maple Tree 6"to12"	3/22/16	1301	X			X							2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 / 3.9 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493362

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☒	Sediment ☐	Water: Potable ☐	Ground ☐	NPDES ☐	Surface ☐	Other: Liquid Sludge	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
9 School St Maple Tree 12" to 18"	3/22/16	1313	X		X							2	X	X	X								
9 School St NE Corner PL 0" to 6"	3/22/16	1333	X		X							2	X	X	X								
9 School St NE Corner PL 6" to 12"	3/22/16	1340	X		X							2	X	X	X								
9 School St NE Corner PL 12" to 18"	3/22/16	1357	X		X							2	X	X	X								
9 School St NE Corner PL Duplicate	3/22/16	1400	X		X							1	X										
Auger Rinse #6	3/22/16	1410	X				X					2				X							Lab DI Water
Bowl Rinse #6	3/22/16	1412	X				X					2				X							Lab DI Water
Transport Blank 032216	3/18/16	—	X				X					1				X							Lab supplied
WWTP Liquid Sludge	3/22/16	1435	X								X	2				X							
Pembroke Garden 0" to 6"	3/22/16	1500	X		X							4	X	X	X								MS/MSD Here

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 - 3.9 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493363

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Potable	Ground	Water	NPDES	Surface	Other:	Total # of Containers	EPA 537	TOC	Moisture									Remarks
Pembroke Garden 6" to 12"	3/22/16	1506	X			X							2	X	X	X									
Pembroke Garden 12" to 18"	3/22/16	1512	X			X							2	X	X	X									
Pembroke Garden 18" to 24"	3/22/16	1520	X			X							2	X	X	X									
Pembroke Stockpile 2	3/22/16	1538	X			X							2	X	X	X									

Analysis Requested / Preservation Codes

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/24/16	17:00			
			Kristen Abel	3/25/16	1005

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 2.9-3.9 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

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Sample Administration Receipt Documentation Log

Doc Log ID: 140307

Group Number(s): 1643263

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/23/2016 10:00
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	1
Samples Intact:	No	Trip Blank Type:	Na2S2O3
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:00 on 03/23/2016

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	DT146	2.9	DT	Wet	Y	Bagged	N
2	DT146	3.9	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
2009 N. Bennington Rd 6" to 12	125 ml wide mouth glass - None	1	N	subsampled for TOC/moist.

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Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.cor

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 14, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/24/2016
Group Number: 1643769
SDG: SGP10
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
180 River Rd 0" to 6" Grab Soil	8301012
180 River Rd 6" to 12" Grab Soil	8301013
180 River Rd 12" to 18" Grab Soil	8301014
180 River Rd 18" to 24" Grab Soil	8301015
Chemfab Along River 0" to 6" Grab Soil	8301016
Chemfab Along River 6" to 12" Grab Soil	8301017
Chemfab Along River 12" to 18" Grab Soil	8301018
Chemfab Along River 18" to 24" Grab Soil	8301019
Chemfab W Side 0" to 6" Grab Soil	8301020
Chemfab W Side 6" to 12" Grab Soil	8301021
Chemfab W Side 12" to 18" Grab Soil	8301022
Chemfab W Side 18" to 24" Grab Soil	8301023
Lake Paran 0" to 6" Grab Soil	8301024
Lake Paran 6" to 12" Grab Soil	8301025
Lake Paran 12" to 18" Grab Soil	8301026
Lake Paran 18" to 24" Grab Soil	8301027
Auger Rinse #7 Grab Blank Water	8301028
Bowl Rinse #7 Grab Blank Water	8301029
Transport Blank 032316 Blank Water	8301030
16 Wilkey Way 0" to 6" Grab Soil	8301031
16 Wilkey Way Duplicate Grab Soil	8301032
16 Wilkey Way 6" to 12" Grab Soil	8301033
16 Wilkey Way 6" to 12" MS Grab Soil	8301034
16 Wilkey Way 6" to 12" MSD Grab Soil	8301035
16 Wilkey Way 6" to 12" Dupl Grab Soil	8301036
16 Wilkey Way 12" to 18" Grab Soil	8301037
16 Wilkey Way 18" to 24" Grab Soil	8301038
Chemfab Blowdown East 0" to 6" Grab Soil	8301039
Chemfab Blowdown East 6" to 12" Grab Soil	8301040
Chemfab Blowdown East 12" to 18" Grab Soil	8301041
Chemfab Blowdown East 18" to 24" Grab Soil	8301042

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643769

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8301028-8301030 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16098007 (Sample number(s): 8301012-8301027, 8301031-8301035, 8301037 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotridecanoic acid

Batch #: 16098008 (Sample number(s): 8301038-8301042 UNSPK: 8301038)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16089049531A (Sample number(s): 8301018-8301027 UNSPK: 8301018 BKG: 8301018)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16089049531B (Sample number(s): 8301031, 8301041-8301042 UNSPK: 8301042 BKG: 8301042)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: Lake Paran 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301024
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 11:47 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1013 SDG#: SGP10-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.69	U	0.69	2.2	1
14027	Perfluorodecanoic acid	335-76-2	0.28	U	0.28	0.55	1
14027	Perfluorododecanoic acid	307-55-1	0.62	J	0.55	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.41	U	0.41	0.83	1
14027	Perfluorohexanesulfonate	355-46-4	0.69	U	0.69	2.2	1
14027	Perfluorohexanoic acid	307-24-4	0.28	U	0.28	0.55	1
14027	Perfluorononanoic acid	375-95-1	0.28	U	0.28	0.55	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.7	JB	0.97	2.2	1
14027	Perfluorooctanoic acid	335-67-1	2.0		0.41	0.83	1
14027	Perfluorotetradecanoic acid	376-06-7	0.41	U	0.41	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.83	U	0.83	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.41	U	0.41	0.83	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	38,900		1,430	4,290	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	27.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 14:27	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 12:41	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: Lake Paran 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301025
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 12:02 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1014 SDG#: SGP10-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.65	U	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.52	U	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.51	J	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	0.65	U	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.54		0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.3	JB	0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	1.9		0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.78	U	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.78	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	15,100		1,290	3,870	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	22.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 15:02	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 13:01	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

Sample Description: Lake Paran 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301026
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 12:12 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

10-15 SDG#: SGP10-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.67	U	0.67	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.27	U	0.27	0.53	1
14027	Perfluorododecanoic acid	307-55-1	0.53	U	0.53	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.40	U	0.40	0.80	1
14027	Perfluorohexanesulfonate	355-46-4	0.67	U	0.67	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.29	J	0.27	0.53	1
14027	Perfluorononanoic acid	375-95-1	0.27	U	0.27	0.53	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.3	JB	0.93	2.1	1
14027	Perfluorooctanoic acid	335-67-1	4.1		0.40	0.80	1
14027	Perfluorotetradecanoic acid	376-06-7	0.40	U	0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.80	U	0.80	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.40	U	0.40	0.80	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	17,900		534	1,600	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	25.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 15:20	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 13:13	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

Sample Description: Lake Paran 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301027
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 12:18 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

10-16 SDG#: SGP10-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	4.6		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,500		810	2,430	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 15:38	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 13:28	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

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/g		ng/g	ng/g
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.94	J	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16098008	Sample number(s): 8301038-8301042			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8301028-8301030			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040			
TOC	100	U	100	300
Batch number: 16088949631B	Sample number(s): 8301012-8301017			
TOC	100	U	100	300
Batch number: 16089049531A	Sample number(s): 8301018-8301027			
TOC	100	U	100	300
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037								
Perfluorobutanesulfonate	20	19.73			99		70-130		
Perfluorodecanoic acid	20	17.73			89		70-130		
Perfluorododecanoic acid	20	20.72			104		70-130		
Perfluoroheptanoic acid	20	19.02			95		70-130		
Perfluorohexanesulfonate	20	16.59			83		70-130		
Perfluorohexanoic acid	20	19.41			97		70-130		
Perfluorononanoic acid	20	19.6			98		70-130		
Perfluoro-octanesulfonate	20	20.09			100		70-130		
Perfluorooctanoic acid	20	21.8			109		70-130		
Perfluorotetradecanoic acid	20	18.88			94		70-130		
Perfluorotridecanoic acid	20	20.53			103		70-130		
Perfluoroundecanoic acid	20	17.63			88		70-130		
Batch number: 16098008	Sample number(s): 8301038-8301042								
Perfluorobutanesulfonate	20	21.89			109		70-130		
Perfluorodecanoic acid	20	17.53			88		70-130		
Perfluorododecanoic acid	20	14.26			71		70-130		
Perfluoroheptanoic acid	20	21.3			106		70-130		
Perfluorohexanesulfonate	20	16.16			81		70-130		
Perfluorohexanoic acid	20	21.67			108		70-130		
Perfluorononanoic acid	20	18.8			94		70-130		
Perfluoro-octanesulfonate	20	15.23			76		70-130		
Perfluorooctanoic acid	20	19.52			98		70-130		
Perfluorotetradecanoic acid	20	18.99			95		70-130		
Perfluorotridecanoic acid	20	18.63			93		70-130		
Perfluoroundecanoic acid	20	21.2			106		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8301028-8301030								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

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
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040								
TOC	5430	5025.76			93		47-143		
Batch number: 16088949631B	Sample number(s): 8301012-8301017								
TOC	5430	5025.76			93		47-143		
Batch number: 16089049531A	Sample number(s): 8301018-8301027								
TOC	5430	4071.68			75		47-143		
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042								
TOC	5430	4071.68			75		47-143		
	%	**%**	**%**	**%**					
Batch number: 16084820009A	Sample number(s): 8301012-8301019,8301032								
Moisture	89.5	89.44			100		99-101		
Batch number: 16084820009B	Sample number(s): 8301020-8301027,8301031,8301033-8301037								
Moisture	89.5	89.44			100		99-101		
Moisture	89.5	89.44			100		99-101		
Moisture Duplicate	89.5	89.44			100		99-101		
Batch number: 16084820010B	Sample number(s): 8301038-8301042								
Moisture	89.5	89.45			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037 UNSPK: 8301033									
Perfluorobutanesulfonate	0.50 U	20	18.05	20	18.91	90	95	70-130	5	30
Perfluorodecanoic acid	0.20 U	20	18.02	20	15.8	90	79	70-130	13	30
Perfluorododecanoic acid	0.411	20	15.04	20	14.72	73	72	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	22.81	20	17.5	114	88	70-130	26	30
Perfluorohexanesulfonate	0.50 U	20	14.26	20	15.43	71	77	70-130	8	30
Perfluorohexanoic acid	0.20 U	20	17.29	20	20.88	86	104	70-130	19	30
Perfluorononanoic acid	0.250	20	21.42	20	19.28	106	95	70-130	11	30
Perfluoro-octanesulfonate	0.70 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorooctanoic acid	2.50	20	24.37	20	21.12	109	93	70-130	14	30
Perfluorotetradecanoic acid	0.30 U	20	21.78	20	16.63	109	83	70-130	27	30
Perfluorotridecanoic acid	0.60 U	20	13.3	20	16.41	67*	82	70-130	21	30
Perfluoroundecanoic acid	0.30 U	20	14.66	20	17.47	73	87	70-130	17	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16098008	Sample number(s): 8301038-8301042 UNSPK: 8301038									
Perfluorobutanesulfonate	0.50 U	20	21.39	20	18.19	107	91	70-130	16	30
Perfluorodecanoic acid	0.20 U	20	17.75	20	19.06	89	95	70-130	7	30
Perfluorododecanoic acid	0.444	20	14.56	20	15.26	71	74	70-130	5	30
Perfluoroheptanoic acid	0.30 U	20	19.67	20	16.94	98	85	70-130	15	30
Perfluorohexanesulfonate	0.50 U	20	13.07	20	15.84	65*	79	70-130	19	30
Perfluorohexanoic acid	0.20 U	20	18.53	20	18.57	93	93	70-130	0	30
Perfluorononanoic acid	0.20 U	20	18.28	20	18.37	91	92	70-130	0	30
Perfluoro-octanesulfonate	1.07	20	13.95	20	19.52	64*	92	70-130	33*	30
Perfluorooctanoic acid	4.23	20	22.25	20	24.77	90	103	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	17.28	20	16.62	86	83	70-130	4	30
Perfluorotridecanoic acid	0.60 U	20	15.13	20	15.72	76	79	70-130	4	30
Perfluoroundecanoic acid	0.30 U	20	15.46	20	17.98	77	90	70-130	15	30
	ng/l	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8301028-8301030 UNSPK: 8298619									
Perfluorooctanoic acid	353.46	200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77	200	212.06			100		70-130		
Perfluorodecanoic acid	4 U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24	200	217.48			105		70-130		
Perfluorododecanoic acid	10 U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8 U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10 U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4 U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94	200	220.71			94		70-130		
Perfluorobutanesulfonate	20 U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20 U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20 U	200	277.75			139*		70-130		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040 UNSPK: 8301033									
TOC	11042.87	22108	34443.63			106		47-143		
Batch number: 16088949631B	Sample number(s): 8301012-8301017 UNSPK: 8301017									
TOC	4953.35	43605	55174.42			115		47-143		
Batch number: 16089049531A	Sample number(s): 8301018-8301027 UNSPK: 8301018									
TOC	9041.43	60241	70863.45			103		47-143		
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042 UNSPK: 8301042									
TOC	2707.3	29098	24548.98			75		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040 BKG: 8301033			
TOC	11042.87	10354.22	6	7

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16088949631B	Sample number(s): 8301012-8301017 BKG: 8301017			
TOC	4953.35	4680.57	6 (1)	7
Batch number: 16089049531A	Sample number(s): 8301018-8301027 BKG: 8301018			
TOC	9041.43	5388.51	51* (1)	7
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042 BKG: 8301042			
TOC	2707.3	2318.34	15* (1)	7
	%	%		
Batch number: 16084820009A	Sample number(s): 8301012-8301019,8301032 BKG: 8301032			
Moisture	28.78	28.39	1	5
Batch number: 16084820009B	Sample number(s): 8301020-8301027,8301031,8301033-8301037 BKG: 8301033, P301033			
Moisture	24.1	24.34	1	5
Moisture	24.1	24.34	1	5
Moisture Duplicate	24.1	24.34	1	5
Batch number: 16084820010B	Sample number(s): 8301038-8301042 BKG: 8301038			
Moisture	25.26	25.54	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643769 Sample # 8301012-42

COC # 493364

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ____

Analysis Requested / Preservation Codes

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	EPA 537	TOC	Moisture	Remarks
180 River Rd 0" to 6"	3/23/16	0904	X		2	X	X	X	
180 River Rd 6" to 12"	3/23/16	0915	X		2	X	X	X	
180 River Rd 12" to 18"	3/23/16	0923	X		2	X	X	X	
180 River Rd 18" to 24"	3/23/16	0933	X		2	X	X	X	
Chemfab Along River 0" to 6"	3/23/16	0955	X		2	X	X	X	
Chemfab Along River 6" to 12"	3/23/16	1003	X		2	X	X	X	
Chemfab Along River 12" to 18"	3/23/16	1011	X		2	X	X	X	
Chemfab Along River 18" to 24"	3/23/16	1019	X		2	X	X	X	
Chemfab W. Side 0" to 6"	3/23/16	1044	X		2	X	X	X	
Chemfab W. Side 6" to 12"	3/23/16	1053	X		2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx x Other ____

Temperature upon receipt 2.6-3.4 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643769 Sample # 8301012-42

COC # 493466

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil (Sediment ☐)	Water: Potable ☐ Ground ☐ Surface ☐ NPDES ☐	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
Preservation Codes												O							
Chemfab W Side 12" to 18"	3/23/16	1102	X		X			2	X	X	X								
Chemfab W Side 18" to 24"	3/23/16	1111	X		X			2	X	X	X								
Lake Paran 0" to 6"	3/23/16	1147	X		X			2	X	X	X								
Lake Paran 6" to 12"	3/23/16	1202	X		X			2	X	X	X								
Lake Paran 12" to 18"	3/23/16	1212	X		X			2	X	X	X								
Lake Paran 18" to 24"	3/23/16	1218	X		X			2	X	X	X								
Auger Rinse #7	3/23/16	1220	X			X		2				X							Lab DI Water
Bowl Rinse #7	3/23/16	1222	X			X		2				X							Lab DI Water
Transport Blank 032316	3/16/16	—	X			X		1				X							Lab supplied
16 Wilkey Way 0" to 6"	3/23/16	1344	X		X			2	X	X	X								

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day per bid

E-mail address: K.Moline@CTMale.com

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			

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

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.6-7.9 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643169 Sample # 8301012-42

COC # 493460

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
16 Wilkey Way Duplicate	3/23/16	1348	X			X							1	X	~~X~~		
16 Wilkey Way 6" to 12"	3/23/16	1351	X			X							4	X	X	X	MS/MSD here
16 Wilkey Way 12" to 18"	3/23/16	1357	X			X							2	X	X	X	
16 Wilkey Way 18" to 24"	3/23/16	1405	X			X							2	X	X	X	
Chemfab Blowdown East 0" to 6"	3/23/16	1500	X			X							2	X	X	X	
Chemfab Blowdown East 6" to 12"	3/23/16	1508	X			X							2	X	X	X	
Chemfab Blowdown East 12" to 18"	3/23/16	1515	X			X							2	X	X	X	
Chemfab Blowdown East 18" to 24"	3/23/16	1520	X			X							2	X	X	X	

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			
				3.24.16	945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx X Other

Temperature upon receipt 2.6-2.9 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140454

Group Number(s): 1643769

Client: C.T. Male Assoc.

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/24/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	No	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 11:23 on 03/24/2016

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	3.9	DT	Wet	Y	Bagged	N
2	DT131	2.6	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
180 River Rd 6" to 12"	4.5 oz.plastic cup w/screw lid - None	1	N	Jar broken.

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/22/2016
Group Number: 1643001
SDG: SGP08
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
8 Polygraphic Ln 6" to 12" Grab Soil	8297411
8 Polygraphic Ln 6" to 12" MS Grab Soil	8297412
8 Polygraphic Ln 6" to 12" MSD Grab Soil	8297413
8 Polygraphic Ln 6" to 12" Dupl Grab Soil	8297414
8 Polygraphic Ln 12" to 18" Grab Soil	8297415
8 Polygraphic Ln Duplicate Grab Soil	8297416
8 Polygraphic Ln 18" to 24" Grab Soil	8297417
Auger Rinse #5 Grab Blank Water	8297418
Bowl Rinse #5 Grab Blank Water	8297419
15 Polygraphic 0" to 6" Grab Soil	8297420
15 Polygraphic 6" to 12" Grab Soil	8297421
980 Park St 0" to 6" Grab Soil	8297422
980 Park St 6" to 12" Grab Soil	8297423
980 Park St 12" to 18" Grab Soil	8297424

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643001

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8297418, 8297419

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

Batch #: 16083003 (Sample number(s): 8297418-8297419)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084008 (Sample number(s): 8297411-8297413, 8297415-8297417, 8297420-8297424 UNSPK: 8297411)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotridecanoic acid

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16085049531A (Sample number(s): 8297424 UNSPK: P298609 BKG: P298609)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16083820001B (Sample number(s): 8297411-8297417, 8297420-8297424 BKG: 8297411)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

Sample Description: 980 Park St 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297422
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 15:10 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0809 SDG#: SGP08-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.66	U	0.66	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.69		0.26	0.53	1
14027	Perfluorododecanoic acid	307-55-1	0.53	U	0.53	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.40	U	0.40	0.79	1
14027	Perfluorohexanesulfonate	355-46-4	0.66	U	0.66	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.53	1
14027	Perfluorononanoic acid	375-95-1	0.50	J	0.26	0.53	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.1	J	0.92	2.1	1
14027	Perfluorooctanoic acid	335-67-1	2.7		0.40	0.79	1
14027	Perfluorotetradecanoic acid	376-06-7	0.40	U	0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.79	U	0.79	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.40	U	0.40	0.79	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	17,400		635	1,910	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	24.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 04:37	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 02:52	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

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Analysis Report

Sample Description: 980 Park St 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297423
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 15:16 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0810 SDG#: SGP08-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.95	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.4	J	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.5		0.36	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.95	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	16,800		457	1,370	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 04:52	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 03:07	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

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Lancaster Laboratories Environmental
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Analysis Report

Sample Description: 980 Park St 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297424
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 15:33 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0811 SDG#: SGP08-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	J	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.95	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	J	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.5		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.95	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,980		706	2,120	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 05:06	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 11:38	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

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/g		ng/g	ng/g
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8297418-8297419			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423			
TOC	100	U	100	300
Batch number: 16085049531A	Sample number(s): 8297424			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424								

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluorobutanesulfonate	20	19.99			100		70-130		
Perfluorodecanoic acid	20	20.95			105		70-130		
Perfluorododecanoic acid	20	18.97			95		70-130		
Perfluoroheptanoic acid	20	17.78			89		70-130		
Perfluorohexanesulfonate	20	23.71			119		70-130		
Perfluorohexanoic acid	20	15.95			80		70-130		
Perfluorononanoic acid	20	15.75			79		70-130		
Perfluoro-octanesulfonate	20	23.73			119		70-130		
Perfluorooctanoic acid	20	16.92			85		70-130		
Perfluorotetradecanoic acid	20	19.7			99		70-130		
Perfluorotridecanoic acid	20	17.74			89		70-130		
Perfluoroundecanoic acid	20	20.94			105		70-130		
	ng/l	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16083003	Sample number(s): 8297418-8297419								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423								
TOC	5430	4448.16			82		47-143		
Batch number: 16085049531A	Sample number(s): 8297424								
TOC	5430	4355.58			80		47-143		
	%	**%**	**%**	**%**					
Batch number: 16083820001B	Sample number(s): 8297411-8297417,8297420-8297424								
Moisture	89.5	89.44			100		99-101		
Moisture	89.5	89.44			100		99-101		
Moisture Duplicate	89.5	89.44			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424 UNSPK: 8297411										
Perfluorobutanesulfonate	0.50	U	20	16.66	20	20.13	83	101	70-130	19	30
Perfluorodecanoic acid	0.20	U	20	18.94	20	18.79	95	94	70-130	1	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorododecanoic acid	0.40 U	20	18.87	20	18.55	94	93	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	19.56	20	22.07	98	110	70-130	12	30
Perfluorohexanesulfonate	0.50 U	20	17.18	20	14.3	86	71	70-130	18	30
Perfluorohexanoic acid	0.20 U	20	16.1	20	16.15	80	81	70-130	0	30
Perfluorononanoic acid	0.20 U	20	18.83	20	18.09	94	90	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	14.21	20	17.52	71	88	70-130	21	30
Perfluorooctanoic acid	1.65	20	18.81	20	19.58	86	90	70-130	4	30
Perfluorotetradecanoic acid	0.30 U	20	18.41	20	24.2	92	121	70-130	27	30
Perfluorotridecanoic acid	0.60 U	20	13.76	20	15.36	69*	77	70-130	11	30
Perfluoroundecanoic acid	0.30 U	20	19.14	20	20.42	96	102	70-130	6	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423 UNSPK: 8297411									
TOC	14599.68	13593	24218.4			71		47-143		
Batch number: 16085049531A	Sample number(s): 8297424 UNSPK: P298609									
TOC	7316.27	36330	38474.58			86		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423 BKG: 8297411			
TOC	14599.68	15419.66	5	7
Batch number: 16085049531A	Sample number(s): 8297424 BKG: P298609			
TOC	7316.27	3693.5	66* (1)	7
	%	%		
Batch number: 16083820001B	Sample number(s): 8297411-8297417,8297420-8297424 BKG: 8297411, P297411			
Moisture	11.38	10.39	9*	5
Moisture	11.38	10.39	9*	5
Moisture Duplicate	11.38	10.39	9*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643001 Sample # 8297411-24

COC # 493546

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#: 185943

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ NPDES ☐ Surface ☐ Other: ____

Analysis Requested / Preservation Codes

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil	Ground	Potable	NPDES	Surface	Other	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
																O							
8 Polygraphic Ln 6" to 12"	3/21/16	1340	X			X						4	X	X	X								MS/MSD here
8 Polygraphic Ln 12" to 18"	3/21/16	1355	X			X						2	X	X	X								
8 Polygraphic Ln Duplicate	3/21/16	1357	X			X						1											
8 Polygraphic Ln 18" to 24"	3/21/16	1359	X			X						2	X	X	X								
Auger Rinse #5	3/21/16	1403	X				X					2				X							
Bowl Rinse #5	3/21/16	1405	X				X					2				X							
15 Polygraphic Ln 0" to 6"	3/21/16	1427	X			X						2	X	X	X								
15 Polygraphic Ln 6" to 12"	3/21/16	1441	X			X						2	X	X	X								
480 Park St 0" to 6"	3/21/16	1510	X			X						2	X	X	X								
480 Park St 6" to 12"	3/21/16	1516	X			X						2	X	X	X								

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.com

Relinquished by	Date	Time	Received by	Date	Time
[illegible]	3-17-16	1335	Larene Cameron	3/17/16	1335
Larene Cameron	3/21/16	1655			
			[illegible]	3/22/16	0945

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

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 4.8 / 5.1 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643001 Sample # 829741-24

COC # 493547

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture
980 Park St 12" to 18"	3/21/16	1533	X			X							2	X	X	X

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/21/16	16:55			
			Khadija Abdi	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx ✓ Other

Temperature upon receipt 4.8-5.4 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140176

Group Number(s): 1643001

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/22/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:32 on 03/22/2016

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	DT146	5.1	DT	Wet	Y	Bagged	N
2	DT146	4.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/22/2016
Group Number: 1642988
SDG: SGP07
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Asa Way Vac Lot 0" to 6" Grab Soil	8297354
Asa Way Vac Lot 6" to 12" Grab Soil	8297355
Asa Way Vac Lot 12" to 18" Grab Soil	8297356
Asa Way Vac Lot 18" to 24" Grab Soil	8297357
Auger Rinse #4 Grab Blank Water	8297358
Bowl Rinse #4 Grab Blank Water	8297359
Transport Blank 032116 Water	8297360
26 Susan Taylor 0" to 6" Grab Soil	8297361
26 Susan Taylor 0" to 6" MS Grab Soil	8297362
26 Susan Taylor 0" to 6" MSD Grab Soil	8297363
26 Susan Taylor 0" to 6" Dupl Grab Soil	8297364
26 Susan Taylor Duplicate Grab Soil	8297365
26 Susan Taylor 6" to 12" Grab Soil	8297366
26 Susan Taylor 12" to 18" Grab Soil	8297367
26 Susan Taylor 18" to 24" Grab Soil	8297368
10 Scarey Ln 0" to 6" Grab Soil	8297369
10 Scarey Ln 6" to 12" Grab Soil	8297370
10 Scarey Ln 12" to 18" Grab Soil	8297371
10 Scarey Ln 18" to 24" Grab Soil	8297372
26 Scarey Ln 0" to 6" Grab Soil	8297373
26 Scarey Ln 6" to 12" Grab Soil	8297374
8 Polygraphic Ln 0" to 6" Grab Soil	8297375

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642988

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8297358, 8297359, 8297360

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

Batch #: 16083003 (Sample number(s): 8297358-8297360)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084007 (Sample number(s): 8297354-8297357, 8297361-8297363, 8297365-8297375 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16084949631A (Sample number(s): 8297355-8297357 UNSPK: P294196 BKG: P294196)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16084949631B (Sample number(s): 8297354, 8297361-8297362, 8297364, 8297366-8297372 UNSPK: 8297361 BKG: 8297361)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16083820002A (Sample number(s): 8297354-8297357 BKG: 8297355)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

Sample Description: 8 Polygraphic Ln 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297375
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 13:33 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0719 SDG#: SGP07-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.82		0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.98	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.50		0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.48	J	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.4	J	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	4.2		0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.98	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.42	J	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	22,200		561	1,680	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 10:33	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 00:56	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

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/g		ng/g	ng/g
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8297358-8297360			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16084949631A	Sample number(s): 8297355-8297357			
TOC	100	U	100	300
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372			
TOC	100	U	100	300
Batch number: 16084949632A	Sample number(s): 8297373-8297375			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375								
Perfluorobutanesulfonate	20	17.26			86		70-130		
Perfluorodecanoic acid	20	19.11			96		70-130		
Perfluorododecanoic acid	20	18.17			91		70-130		
Perfluoroheptanoic acid	20	18.61			93		70-130		
Perfluorohexanesulfonate	20	14.91			75		70-130		
Perfluorohexanoic acid	20	16.77			84		70-130		
Perfluorononanoic acid	20	17.99			90		70-130		
Perfluoro-octanesulfonate	20	20.89			104		70-130		
Perfluorooctanoic acid	20	16.59			83		70-130		
Perfluorotetradecanoic acid	20	19.73			99		70-130		
Perfluorotridecanoic acid	20	15.69			78		70-130		
Perfluoroundecanoic acid	20	17.08			85		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8297358-8297360								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375								
TOC	5430	4448.16			82		47-143		
	%	%	%	%					
Batch number: 16083820002A	Sample number(s): 8297354-8297357								
Moisture	89.5	89.47			100		99-101		
Batch number: 16083820002B	Sample number(s): 8297361-8297375								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375 UNSPK: 8297361									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	18.36	84	92	70-130	9	30
Perfluorodecanoic acid	0.468	20	20.97	20	19.73	103	96	70-130	6	30
Perfluorododecanoic acid	0.40 U	20	18.68	20	18.77	93	94	70-130	0	30
Perfluoroheptanoic acid	0.30 U	20	19.82	20	20.51	99	103	70-130	3	30
Perfluorohexanesulfonate	0.50 U	20	24.58	20	20.13	123	101	70-130	20	30
Perfluorohexanoic acid	0.20 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorononanoic acid	0.20 U	20	17.45	20	18.3	87	91	70-130	5	30
Perfluoro-octanesulfonate	0.70 U	20	25.38	20	14.58	127	73	70-130	54*	30
Perfluorooctanoic acid	0.511	20	17.68	20	19.66	86	96	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	20.6	20	16.83	103	84	70-130	20	30
Perfluorotridecanoic acid	0.60 U	20	16.16	20	14.25	81	71	70-130	13	30
Perfluoroundecanoic acid	0.312	20	18.17	20	17.26	89	85	70-130	5	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357 UNSPK: P294196									
TOC	5817.55	14790	19743.46			94		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 UNSPK: 8297361									
TOC	5512	10007	12605.07			71		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375 UNSPK: P297411									
TOC	14599.68	13593	24218.4			71		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16084949631A	Sample number(s): 8297355-8297357 BKG: P294196			
TOC	5817.55	3166.37	59*	7
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 BKG: 8297361			
TOC	5512	6002.81	9*	7
Batch number: 16084949632A	Sample number(s): 8297373-8297375 BKG: P297411			
TOC	14599.68	15419.66	5	7
	%	%		
Batch number: 16083820002A	Sample number(s): 8297354-8297357 BKG: 8297355			
Moisture	17.48	16.51	6*	5
Batch number: 16083820002B	Sample number(s): 8297361-8297375 BKG: 8297361, P297361			
Moisture	19.48	18.8	4	5
Moisture	19.48	18.8	4	5
Moisture Duplicate	19.48	18.8	4	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

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Acct. # 3719 Group # 1642988 Sample # 8297354-75

COC # 493463

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: UT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Surface ☐	Potable ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
													Preservation Codes				0							
Asa Way Vacant Lot 0" to 6"	3/21/16	0907	X			X							2	X	X	X								
Asa Way Vacant Lot 6" to 12"	3/21/16	0913	X			X							2	X	X	X								
Asa Way Vacant Lot 12" to 18"	3/21/16	0925	X			X							2	X	X	X								
Asa Way Vacant Lot 18" to 24"	3/21/16	0931	X			X							2	X	X	X								
LC ~~Asa Way Vacant Lot~~																								
Auger Rinse # 4	3/21/16	0938	X					X					2				X							Lab DI Water
Bowl Rinse # 4	3/21/16	0935	X					X					2				X							Lab DI Water
Transport Blank 032116	3/16/16	—	X					X				LC	1				X							Lab Supplied
26 Susan Taylor 0" to 6"	3/21/16	1005	X			X							4	X	X	X								MS/MSD here
26 Susan Taylor Duplicate	3/21/16	1010	X			X							1	X										

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/21/16	1655			
			Kristen Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____

Temperature upon receipt 4.5 / 5.4 °C

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Remarks

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1642988 Sample # 8297354-75

COC # 493361

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
26 Susan Taylor 6" to 12"	3/21/16	1013	X			X						2	X	X	X	
26 Susan Taylor 12" to 18"	3/21/16	1020	X			X						2	X	X	X	
26 Susan Taylor 18" to 24"	3/21/16	1026	X			X						2	X	X	X	
10 Scarey Ln 0" to 6"	3/21/16	1055	X			X						2	X	X	X	
10 Scarey Ln 6" to 12"	3/21/16	1101	X			X						2	X	X	X	
10 Scarey Ln 12" to 18"	3/21/16	1114	X			X						2	X	X	X	
10 Scarey Ln 18" to 24"	3/21/16	1125	X			X						2	X	X	X	
26 Scarey Ln WH 0" to 6"	3/21/16	1231	X			X						2	X	X	X	
26 Scarey Ln WH 6" to 12"	3/21/16	1240	X			X						2	X	X	X	
8 Polygraphic Ln 0" to 6"	3/21/16	1333	X			X						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/21/16	1655			
			Krista Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS FedEx X Other

Temperature upon receipt 4.5 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140176

Group Number(s): 1642988

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/22/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:32 on 03/22/2016

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	DT146	5.1	DT	Wet	Y	Bagged	N
2	DT146	4.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/22/2016
Group Number: 1643001
SDG: SGP08
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
8 Polygraphic Ln 6" to 12" Grab Soil	8297411
8 Polygraphic Ln 6" to 12" MS Grab Soil	8297412
8 Polygraphic Ln 6" to 12" MSD Grab Soil	8297413
8 Polygraphic Ln 6" to 12" Dupl Grab Soil	8297414
8 Polygraphic Ln 12" to 18" Grab Soil	8297415
8 Polygraphic Ln Duplicate Grab Soil	8297416
8 Polygraphic Ln 18" to 24" Grab Soil	8297417
Auger Rinse #5 Grab Blank Water	8297418
Bowl Rinse #5 Grab Blank Water	8297419
15 Polygraphic 0" to 6" Grab Soil	8297420
15 Polygraphic 6" to 12" Grab Soil	8297421
980 Park St 0" to 6" Grab Soil	8297422
980 Park St 6" to 12" Grab Soil	8297423
980 Park St 12" to 18" Grab Soil	8297424

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643001

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8297418, 8297419

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

Batch #: 16083003 (Sample number(s): 8297418-8297419)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084008 (Sample number(s): 8297411-8297413, 8297415-8297417, 8297420-8297424 UNSPK: 8297411)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotridecanoic acid

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16085049531A (Sample number(s): 8297424 UNSPK: P298609 BKG: P298609)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16083820001B (Sample number(s): 8297411-8297417, 8297420-8297424 BKG: 8297411)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

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Analysis Report

Sample Description: 8 Polygraphic Ln 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297411
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 13:40 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0801 SDG#: SGP08-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.56	U	0.56	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	0.45	U	0.45	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	0.56	U	0.56	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.79	U	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	1.9		0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	0.34	U	0.34	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	0.68	U	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.34	U	0.34	0.68	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	16,500		451	1,350	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	11.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 15:42	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 01:08	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

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Analysis Report

Sample Description: 8 Polygraphic Ln 6" to 12" MS Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297412
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 13:40 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0801 SDG#: SGP08-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	19	0.56	1.8	1
14027	Perfluorodecanoic acid	335-76-2	21	0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	21	0.45	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	22	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	19	0.56	1.8	1
14027	Perfluorohexanoic acid	307-24-4	18	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	21	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	16	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	21	0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	21	0.34	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	16	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	22	0.34	0.68	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	27,300	511	1,530	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	11.4	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 15:56	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 01:23	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

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Analysis Report

Sample Description: 8 Polygraphic Ln 6" to 12" MSD Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297413
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 13:40 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0801 SDG#: SGP08-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	23	0.56	1.8	1
14027	Perfluorodecanoic acid	335-76-2	21	0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	21	0.45	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	25	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	16	0.56	1.8	1
14027	Perfluorohexanoic acid	307-24-4	18	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	20	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	20	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	22	0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	27	0.34	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	17	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	23	0.34	0.68	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	11.4	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 16:10	Jason W Knight	1
00118	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

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Analysis Report

Sample Description: 8 Polygraphic Ln 6" to 12" Dupl Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297414
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 13:40 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0801 SDG#: SGP08-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	17,400	542	1,630	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	11.4	0.50	0.50	1
00121	Moisture Duplicate	n.a.	10.4	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 03:21	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1
00121	Moisture Duplicate	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

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Analysis Report

Sample Description: 8 Polygraphic Ln 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297415
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 13:55 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0802 SDG#: SGP08-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.45	J	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.85	U	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	2.1		0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	0.73	U	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	33,000		577	1,730	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 03:26	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 01:47	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

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Analysis Report

Sample Description: 8 Polygraphic Ln Duplicate Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297416
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 13:57 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0803 SDG#: SGP08-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.33	J	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.46	U	0.46	0.93	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.32	J	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.5	J	0.81	1.9	1
14027	Perfluorooctanoic acid	335-67-1	2.1		0.35	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.93	1
14027	Perfluorotridecanoic acid	72629-94-8	0.69	U	0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.69	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	13.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 03:40	Jason W Knight	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

Sample Description: 8 Polygraphic Ln 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297417
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 13:59 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0804 SDG#: SGP08-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.32	J	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.36	J	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	2.4		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,870		287	861	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 03:54	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 02:01	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

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/g		ng/g	ng/g
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8297418-8297419			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423			
TOC	100	U	100	300
Batch number: 16085049531A	Sample number(s): 8297424			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424								

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluorobutanesulfonate	20	19.99			100		70-130		
Perfluorodecanoic acid	20	20.95			105		70-130		
Perfluorododecanoic acid	20	18.97			95		70-130		
Perfluoroheptanoic acid	20	17.78			89		70-130		
Perfluorohexanesulfonate	20	23.71			119		70-130		
Perfluorohexanoic acid	20	15.95			80		70-130		
Perfluorononanoic acid	20	15.75			79		70-130		
Perfluoro-octanesulfonate	20	23.73			119		70-130		
Perfluorooctanoic acid	20	16.92			85		70-130		
Perfluorotetradecanoic acid	20	19.7			99		70-130		
Perfluorotridecanoic acid	20	17.74			89		70-130		
Perfluoroundecanoic acid	20	20.94			105		70-130		
	ng/l	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16083003	Sample number(s): 8297418-8297419								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423								
TOC	5430	4448.16			82		47-143		
Batch number: 16085049531A	Sample number(s): 8297424								
TOC	5430	4355.58			80		47-143		
	%	**%**	**%**	**%**					
Batch number: 16083820001B	Sample number(s): 8297411-8297417,8297420-8297424								
Moisture	89.5	89.44			100		99-101		
Moisture	89.5	89.44			100		99-101		
Moisture Duplicate	89.5	89.44			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424 UNSPK: 8297411										
Perfluorobutanesulfonate	0.50	U	20	16.66	20	20.13	83	101	70-130	19	30
Perfluorodecanoic acid	0.20	U	20	18.94	20	18.79	95	94	70-130	1	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorododecanoic acid	0.40 U	20	18.87	20	18.55	94	93	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	19.56	20	22.07	98	110	70-130	12	30
Perfluorohexanesulfonate	0.50 U	20	17.18	20	14.3	86	71	70-130	18	30
Perfluorohexanoic acid	0.20 U	20	16.1	20	16.15	80	81	70-130	0	30
Perfluorononanoic acid	0.20 U	20	18.83	20	18.09	94	90	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	14.21	20	17.52	71	88	70-130	21	30
Perfluorooctanoic acid	1.65	20	18.81	20	19.58	86	90	70-130	4	30
Perfluorotetradecanoic acid	0.30 U	20	18.41	20	24.2	92	121	70-130	27	30
Perfluorotridecanoic acid	0.60 U	20	13.76	20	15.36	69*	77	70-130	11	30
Perfluoroundecanoic acid	0.30 U	20	19.14	20	20.42	96	102	70-130	6	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423 UNSPK: 8297411									
TOC	14599.68	13593	24218.4			71		47-143		
Batch number: 16085049531A	Sample number(s): 8297424 UNSPK: P298609									
TOC	7316.27	36330	38474.58			86		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423 BKG: 8297411			
TOC	14599.68	15419.66	5	7
Batch number: 16085049531A	Sample number(s): 8297424 BKG: P298609			
TOC	7316.27	3693.5	66* (1)	7
	%	%		
Batch number: 16083820001B	Sample number(s): 8297411-8297417,8297420-8297424 BKG: 8297411, P297411			
Moisture	11.38	10.39	9*	5
Moisture	11.38	10.39	9*	5
Moisture Duplicate	11.38	10.39	9*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643001 Sample # 8297411-24

COC # 493546

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#: 185943

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ NPDES ☐ Surface ☐ Other: ____

Analysis Requested / Preservation Codes

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil	Ground	Potable	NPDES	Surface	Other	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
																O							
8 Polygraphic Ln 6" to 12"	3/21/16	1340	X			X						4	X	X	X								MS/MSD here
8 Polygraphic Ln 12" to 18"	3/21/16	1355	X			X						2	X	X	X								
8 Polygraphic Ln Duplicate	3/21/16	1357	X			X						1											
8 Polygraphic Ln 18" to 24"	3/21/16	1359	X			X						2	X	X	X								
Auger Rinse #5	3/21/16	1403	X				X					2				X							
Bowl Rinse #5	3/21/16	1405	X				X					2				X							
15 Polygraphic Ln 0" to 6"	3/21/16	1427	X			X						2	X	X	X								
15 Polygraphic Ln 6" to 12"	3/21/16	1441	X			X						2	X	X	X								
480 Park St 0" to 6"	3/21/16	1510	X			X						2	X	X	X								
480 Park St 6" to 12"	3/21/16	1516	X			X						2	X	X	X								

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.com

Relinquished by	Date	Time	Received by	Date	Time
[illegible]	3-17-16	1335	Larene Cameron	3/17/16	1335
Larene Cameron	3/21/16	1655			
			[illegible]	3/22/16	0945

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

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 4.8 / 5.1 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643001 Sample # 829741-24

COC # 493547

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture
980 Park St 12" to 18"	3/21/16	1533	X			X							2	X	X	X

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/21/16	16:55			
			Khadija Abdi	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx ✓ Other

Temperature upon receipt 4.8-5.4 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140176

Group Number(s): 1643001

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/22/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:32 on 03/22/2016

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	DT146	5.1	DT	Wet	Y	Bagged	N
2	DT146	4.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/22/2016
Group Number: 1643001
SDG: SGP08
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
8 Polygraphic Ln 6" to 12" Grab Soil	8297411
8 Polygraphic Ln 6" to 12" MS Grab Soil	8297412
8 Polygraphic Ln 6" to 12" MSD Grab Soil	8297413
8 Polygraphic Ln 6" to 12" Dupl Grab Soil	8297414
8 Polygraphic Ln 12" to 18" Grab Soil	8297415
8 Polygraphic Ln Duplicate Grab Soil	8297416
8 Polygraphic Ln 18" to 24" Grab Soil	8297417
Auger Rinse #5 Grab Blank Water	8297418
Bowl Rinse #5 Grab Blank Water	8297419
15 Polygraphic 0" to 6" Grab Soil	8297420
15 Polygraphic 6" to 12" Grab Soil	8297421
980 Park St 0" to 6" Grab Soil	8297422
980 Park St 6" to 12" Grab Soil	8297423
980 Park St 12" to 18" Grab Soil	8297424

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643001

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8297418, 8297419

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

Batch #: 16083003 (Sample number(s): 8297418-8297419)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084008 (Sample number(s): 8297411-8297413, 8297415-8297417, 8297420-8297424 UNSPK: 8297411)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotridecanoic acid

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16085049531A (Sample number(s): 8297424 UNSPK: P298609 BKG: P298609)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16083820001B (Sample number(s): 8297411-8297417, 8297420-8297424 BKG: 8297411)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

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Analysis Report

Sample Description: 15 Polygraphic 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297420
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 14:27 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0807 SDG#: SGP08-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.58		0.26	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.77	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.42	J	0.26	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.90	U	0.90	2.1	1
14027	Perfluorooctanoic acid	335-67-1	0.84		0.39	0.77	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.77	U	0.77	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.51	J	0.39	0.77	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,400		619	1,860	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	22.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 04:09	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 02:32	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

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Analysis Report

Sample Description: 15 Polygraphic 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297421
LL Group # 1643001
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 14:41 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 17:42

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0808 SDG#: SGP08-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.1		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	11,900		434	1,300	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084008	03/28/2016 04:23	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 02:44	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820001B	03/23/2016 09:51	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

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/g		ng/g	ng/g
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8297418-8297419			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423			
TOC	100	U	100	300
Batch number: 16085049531A	Sample number(s): 8297424			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424								

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluorobutanesulfonate	20	19.99			100		70-130		
Perfluorodecanoic acid	20	20.95			105		70-130		
Perfluorododecanoic acid	20	18.97			95		70-130		
Perfluoroheptanoic acid	20	17.78			89		70-130		
Perfluorohexanesulfonate	20	23.71			119		70-130		
Perfluorohexanoic acid	20	15.95			80		70-130		
Perfluorononanoic acid	20	15.75			79		70-130		
Perfluoro-octanesulfonate	20	23.73			119		70-130		
Perfluorooctanoic acid	20	16.92			85		70-130		
Perfluorotetradecanoic acid	20	19.7			99		70-130		
Perfluorotridecanoic acid	20	17.74			89		70-130		
Perfluoroundecanoic acid	20	20.94			105		70-130		
	ng/l	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16083003	Sample number(s): 8297418-8297419								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423								
TOC	5430	4448.16			82		47-143		
Batch number: 16085049531A	Sample number(s): 8297424								
TOC	5430	4355.58			80		47-143		
	%	**%**	**%**	**%**					
Batch number: 16083820001B	Sample number(s): 8297411-8297417,8297420-8297424								
Moisture	89.5	89.44			100		99-101		
Moisture	89.5	89.44			100		99-101		
Moisture Duplicate	89.5	89.44			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084008	Sample number(s): 8297411-8297413,8297415-8297417,8297420-8297424 UNSPK: 8297411										
Perfluorobutanesulfonate	0.50	U	20	16.66	20	20.13	83	101	70-130	19	30
Perfluorodecanoic acid	0.20	U	20	18.94	20	18.79	95	94	70-130	1	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:42

Group Number: 1643001

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorododecanoic acid	0.40 U	20	18.87	20	18.55	94	93	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	19.56	20	22.07	98	110	70-130	12	30
Perfluorohexanesulfonate	0.50 U	20	17.18	20	14.3	86	71	70-130	18	30
Perfluorohexanoic acid	0.20 U	20	16.1	20	16.15	80	81	70-130	0	30
Perfluorononanoic acid	0.20 U	20	18.83	20	18.09	94	90	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	14.21	20	17.52	71	88	70-130	21	30
Perfluorooctanoic acid	1.65	20	18.81	20	19.58	86	90	70-130	4	30
Perfluorotetradecanoic acid	0.30 U	20	18.41	20	24.2	92	121	70-130	27	30
Perfluorotridecanoic acid	0.60 U	20	13.76	20	15.36	69*	77	70-130	11	30
Perfluoroundecanoic acid	0.30 U	20	19.14	20	20.42	96	102	70-130	6	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423 UNSPK: 8297411									
TOC	14599.68	13593	24218.4			71		47-143		
Batch number: 16085049531A	Sample number(s): 8297424 UNSPK: P298609									
TOC	7316.27	36330	38474.58			86		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16084949632A	Sample number(s): 8297411-8297412,8297414-8297415,8297417,8297420-8297423 BKG: 8297411			
TOC	14599.68	15419.66	5	7
Batch number: 16085049531A	Sample number(s): 8297424 BKG: P298609			
TOC	7316.27	3693.5	66* (1)	7
	%	%		
Batch number: 16083820001B	Sample number(s): 8297411-8297417,8297420-8297424 BKG: 8297411, P297411			
Moisture	11.38	10.39	9*	5
Moisture	11.38	10.39	9*	5
Moisture Duplicate	11.38	10.39	9*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643001 Sample # 8297411-24

COC # 493546

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#: 185943

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ NPDES ☐ Surface ☐ Other: ____

Analysis Requested / Preservation Codes

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil	Ground	Potable	NPDES	Surface	Other	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
																O							
8 Polygraphic Ln 6" to 12"	3/21/16	1340	X			X						4	X	X	X								MS/MSD here
8 Polygraphic Ln 12" to 18"	3/21/16	1355	X			X						2	X	X	X								
8 Polygraphic Ln Duplicate	3/21/16	1357	X			X						1											
8 Polygraphic Ln 18" to 24"	3/21/16	1359	X			X						2	X	X	X								
Auger Rinse #5	3/21/16	1403	X				X					2				X							
Bowl Rinse #5	3/21/16	1405	X				X					2				X							
15 Polygraphic Ln 0" to 6"	3/21/16	1427	X			X						2	X	X	X								
15 Polygraphic Ln 6" to 12"	3/21/16	1441	X			X						2	X	X	X								
480 Park St 0" to 6"	3/21/16	1510	X			X						2	X	X	X								
480 Park St 6" to 12"	3/21/16	1516	X			X						2	X	X	X								

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.com

Relinquished by	Date	Time	Received by	Date	Time
[illegible]	3-17-16	1335	Larene Cameron	3/17/16	1335
Larene Cameron	3/21/16	1655			
			[illegible]	3/22/16	0945

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

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 4.8 / 5.1 °C

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643001 Sample # 829741-24

COC # 493547

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture
980 Park St 12" to 18"	3/21/16	1533	X			X							2	X	X	X

Preservation Codes: H=HCl, T=Thiosulfate, N=HNO_3, B=NaOH, S=H_2SO_4, O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/21/16	16:55			
			Khadija Abdi	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx ✓ Other

Temperature upon receipt 4.8-5.4 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140176

Group Number(s): 1643001

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/22/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:32 on 03/22/2016

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	DT146	5.1	DT	Wet	Y	Bagged	N
2	DT146	4.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 25, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/18/2016
Group Number: 1641929
SDG: SGP03
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
25 ASA WAY 0"-6" Grab Soil	8291924
25 ASA WAY 6"-12" Grab Soil	8291925
25 ASA WAY 12"-18" Grab Soil	8291926
25 ASA WAY 18"-24" Grab Soil	8291927
59 River Rd Roadside Playgrnd 0"-6" Grab Soil	8291928
59 River Rd Roadside Playgrnd 6"-12" Grab Soil	8291929
59 River Rd Roadside Playgrnd 12"-18" Grab Soil	8291930
59 River Rd Roadside Playgrnd18"-24" Grab Soil	8291931
59 River Rd Slide 0"-6" Grab Soil	8291932
59 River Rd Slide 6"-12" Grab Soil	8291933
59 River Rd Slide MS 6"-12" Grab Soil	8291934
59 River Rd Slide MSD 6"-12" Grab Soil	8291935
North Bennington Trip Blank Water	8291936
59 River Rd Slide Duplicate 6"-12" Grab Soil	8291937
Auger Rinse Blank 1 Water	8291938

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1641929

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8291936, 8291938

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

Batch #: 16081001 (Sample number(s): 8291924-8291935, 8291937 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorobutanesulfonate

Batch #: 16081002 (Sample number(s): 8291936, 8291938)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorotridecanoic acid, Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorotridecanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

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Analysis Report

Sample Description: 59 River Rd Roadside Playgrnd 0"-6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291928
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:00 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59R-1 SDG#: SGP03-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.65	U	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.46	J	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.65	U	0.65	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	0.65	U	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.8		0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	0.74	J	0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	0.52	U	0.52	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.78	U	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.78	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	17,400		894	2,680	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	23.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 21:36	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 07:23	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 22:29	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 59 River Rd Roadside Playgrnd 6"-12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291929
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:02 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59R-2 SDG#: SGP03-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.25	J	0.24	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.61	U	0.61	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.31	J	0.24	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.3	J	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.86		0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.49	U	0.49	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	0.73	U	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	12,700		808	2,420	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 21:53	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 07:40	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 22:36	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

Sample Description: 59 River Rd Roadside Playgrnd 12"-18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291930
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:10 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59R-3 SDG#: SGP03-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.58	U	0.58	0.92	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.2	J	0.81	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.66	J	0.35	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	0.46	U	0.46	0.92	1
14027	Perfluorotridecanoic acid	72629-94-8	0.69	U	0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.69	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,940		925	2,770	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	13.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 22:11	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 07:57	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 22:44	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

Sample Description: 59 River Rd Roadside Playgrnd18"-24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291931
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:13 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59R-4 SDG#: SGP03-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.56	U	0.56	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.22	U	0.22	0.45	1
14027	Perfluorododecanoic acid	307-55-1	0.56	U	0.56	0.89	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.67	1
14027	Perfluorohexanesulfonate	355-46-4	0.56	U	0.56	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.78	U	0.78	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.34	U	0.34	0.67	1
14027	Perfluorotetradecanoic acid	376-06-7	0.45	U	0.45	0.89	1
14027	Perfluorotridecanoic acid	72629-94-8	0.67	U	0.67	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.34	U	0.34	0.67	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	3,430		810	2,430	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	10.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 22:28	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 08:14	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 22:53	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

Sample Description: 59 River Rd Slide 0"-6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291932
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:47 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59RS1 SDG#: SGP03-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.59	U	0.59	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.70	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.82	U	0.82	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.35	U	0.35	0.70	1
14027	Perfluorotetradecanoic acid	376-06-7	0.47	U	0.47	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.70	U	0.70	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.70	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	13,700		541	1,620	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	14.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 22:45	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 08:32	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 23:25	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

Sample Description: 59 River Rd Slide 6"-12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291933
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:55 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59RS2 SDG#: SGP03-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	0.57	U	0.57	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.0	J	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.34	U	0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	0.45	U	0.45	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	0.68	U	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.34	U	0.34	0.68	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,280		497	1,490	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	11.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 19:18	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 05:04	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531A	03/20/2016 23:40	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 59 River Rd Slide MS 6"-12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291934
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:55 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59RS2 SDG#: SGP03-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	18	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	22	0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	23	0.57	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	21	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	23	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	23	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	23	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	23	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	21	0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	23	0.45	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	19	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	21	0.34	0.68	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	11.6	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 19:35	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 05:22	Meng Yu	1
00118	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 59 River Rd Slide MSD 6"-12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291935
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:55 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59RS2 SDG#: SGP03-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	15	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	21	0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	22	0.57	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	21	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	17	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	20	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	21	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	21	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	20	0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	24	0.45	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	22	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	23	0.34	0.68	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	11.6	0.50	0.50	1
00121	Moisture Duplicate	n.a.	11.9	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 19:52	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 05:39	Meng Yu	1
00118	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 59 River Rd Slide Duplicate 6"-12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291937
LL Group # 1641929
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 14:55 by LC

Submitted: 03/18/2016 09:30
Reported: 03/25/2016 10:13

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

59RSD SDG#: SGP03-12FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	0.57	U	0.57	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.0	J	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.34	U	0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	0.45	U	0.45	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	0.68	U	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.34	U	0.34	0.68	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	11.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/23/2016 23:02	Meng Yu	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16081001	03/24/2016 08:49	Meng Yu	1
00111	Moisture	SM 2540 G-1997	1	16078820006B	03/18/2016 17:15	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/25/2016 10:13

Group Number: 1641929

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/g		ng/g	ng/g
Batch number: 16081001	Sample number(s): 8291924-8291935,8291937			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16081002	Sample number(s): 8291936,8291938			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16080049531A	Sample number(s): 8291924-8291933			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16081001	Sample number(s): 8291924-8291935,8291937								
Perfluorobutanesulfonate	20	17.04			85		70-130		
Perfluorodecanoic acid	20	20.74			104		70-130		
Perfluorododecanoic acid	20	20.21			101		70-130		

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/25/2016 10:13

Group Number: 1641929

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluoroheptanoic acid	20	19.15			96		70-130		
Perfluorohexanesulfonate	20	18.24			91		70-130		
Perfluorohexanoic acid	20	19.55			98		70-130		
Perfluorononanoic acid	20	20.21			101		70-130		
Perfluoro-octanesulfonate	20	19.18			96		70-130		
Perfluorooctanoic acid	20	19.68			98		70-130		
Perfluorotetradecanoic acid	20	20.32			102		70-130		
Perfluorotridecanoic acid	20	19.76			99		70-130		
Perfluoroundecanoic acid	20	19.78			99		70-130		
	ng/l	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16081002	Sample number(s): 8291936,8291938								
Perfluorooctanoic acid	200	141.82	200	161.69	71	81	70-130	13	30
Perfluorononanoic acid	200	141.05	200	175.73	71	88	70-130	22	30
Perfluorodecanoic acid	200	144.05	200	177.93	72	89	70-130	21	30
Perfluoroundecanoic acid	200	143.61	200	189.21	72	95	70-130	27	30
Perfluorododecanoic acid	200	145.69	200	190.83	73	95	70-130	27	30
Perfluorotridecanoic acid	200	136.9	200	189.14	68*	95	70-130	32*	30
Perfluorotetradecanoic acid	200	147.28	200	189.55	74	95	70-130	25	30
Perfluorohexanoic acid	200	175.57	200	191.92	88	96	70-130	9	30
Perfluoroheptanoic acid	200	151.38	200	188.2	76	94	70-130	22	30
Perfluorobutanesulfonate	200	126.54	200	168.03	63*	84	70-130	28	30
Perfluorohexanesulfonate	200	122.71	200	170.94	61*	85	70-130	33*	30
Perfluoro-octanesulfonate	200	129.69	200	180.89	65*	90	70-130	33*	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16080049531A	Sample number(s): 8291924-8291933								
TOC	5430	4492.52			83		47-143		
	%	**%**	**%**	**%**					
Batch number: 16078820006B	Sample number(s): 8291924-8291935,8291937								
Moisture	89.5	89.43			100		99-101		
Moisture	89.5	89.43			100		99-101		
Moisture Duplicate	89.5	89.43			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16081001	Sample number(s): 8291924-8291935,8291937 UNSPK: 8291933									
Perfluorobutanesulfonate	0.50 U	20	15.84	20	13.36	79	67*	70-130	17	30
Perfluorodecanoic acid	0.20 U	20	19.11	20	18.23	96	91	70-130	5	30
Perfluorododecanoic acid	0.40 U	20	20.47	20	19.07	102	95	70-130	7	30
Perfluoroheptanoic acid	0.30 U	20	18.55	20	18.77	93	94	70-130	1	30
Perfluorohexanesulfonate	0.50 U	20	20.38	20	15.02	102	75	70-130	30	30
Perfluorohexanoic acid	0.20 U	20	20.07	20	18.03	100	90	70-130	11	30
Perfluorononanoic acid	0.20 U	20	20.41	20	18.2	102	91	70-130	11	30
Perfluoro-octanesulfonate	0.70 U	20	20.52	20	18.35	103	92	70-130	11	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/25/2016 10:13

Group Number: 1641929

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorooctanoic acid	0.30 U	20	18.31	20	17.35	92	87	70-130	5	30
Perfluorotetradecanoic acid	0.30 U	20	20.49	20	21.08	102	105	70-130	3	30
Perfluorotridecanoic acid	0.60 U	20	16.43	20	19.29	82	96	70-130	16	30
Perfluoroundecanoic acid	0.30 U	20	18.68	20	20.18	93	101	70-130	8	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16080049531A	Sample number(s): 8291924-8291933 UNSPK: 8291933									
TOC	5548.25	55556	77462.96			129		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16080049531A	Sample number(s): 8291924-8291933 BKG: 8291933			
TOC	5548.25	5243.51	6 (1)	7
	%	%		
Batch number: 16078820006B	Sample number(s): 8291924-8291935,8291937 BKG: 8291933, P291933			
Moisture	11.63	11.86	2	5
Moisture	11.63	11.86	2	5
Moisture Duplicate	11.63	11.86	2	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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1 of 2

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1641929 Sample # 8291924-38

COC # 493352

Client Information

Client: CT Male

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16-6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil	Sediment	Water: Potable	Ground	NPDES	Surface	Other:	Total # of Containers	EPA 537	Moisture % and TOC	Remarks
25 ASA WAY 0"-6"	3/16/16	12:20	✓		✓							2	1	1	
25 ASA WAY 6"-12"	3/16/16	12:37	✓		✓							2	1	1	
25 ASA WAY 12"-18"	3/16/16	12:50	✓		✓							2	1	1	
25 ASA WAY 18"-24"	3/16/16	13:00	✓		✓							2	1	1	
59 River Rd Road Side Pick 0"-6"	3/16/16	14:00	✓		✓							2	1	1	Road side playgrnd
59 River Rd " 6"-12"	3/16/16	14:02	✓		✓							2	1	1	"
59 River Rd " 12"-18"	3/16/16	14:10	✓		✓							2	1	1	"
59 River Rd " 18-24"	3/16/16	14:13	✓		✓							2	1	1	"
59 River Rd ~~Next to playgrnd~~ Slide LC 0"-6"	3/16/16	14:47	✓		✓							2	1	1	LC ~~Next to playgrnd~~ Slide
59 River Rd Slide LC 6"-12"	3/16/16	14:55	✓		✓							2	1	1	LC Slide

Analysis Requested / **Preservation Codes**

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day

E-mail address: KMoline@ctmale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/17/16	07:33	Jeff Mayo	3/17/16	0733

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS FedEx X Other

Temperature upon receipt 2.2 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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2 of 2

Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1641929 Sample # 8291924-38

COC # 493353

Client Information

Client: CT Male

Acct. #:

Project Name/#: N Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Camera

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

Matrix

Sediment ☐ Soil ☐ Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Water ☐ Other: ____

Analysis Requested / Preservation Codes

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	EPA 537	Moisture % and TOC	Remarks
~~59 River Rd Next to Daycare~~ 12"-18"	~~3/16/16~~		✓		~~2~~	~~1~~	~~1~~	~~LC~~
~~59 River Rd Next to Daycare~~ 18"-24"								~~LC~~
~~59 River Rd Slide 12"-18"~~	~~3/16/16~~		✓		~~2~~	~~1~~	~~1~~	~~Slide LC~~
~~59 River Rd Slide 18"-24"~~	~~3/16/16~~		✓		~~2~~	~~1~~	~~1~~	~~Slide LC~~
59 River Rd Slide MSD 6"-12"	3/16/16	14:55	✓		1	1		
North Bennington Trip Blank	3/16/16							Lab Provided
59 River Rd Slide MS 6"-12"	3/16/16	14:55	✓		1	1		
59 River Rd Slide Duplicate Sample 6"-12"	3/16/16	14:55	✓		1	1		
Auger Rinse Blank 1	3/16/16	15:05			2	2		Lab DI

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day

E-mail address: K.moline@ctmale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Camera	03/17/16	07:33	[illegible]	03/17/16	0733
			[illegible]	3/18/16	0930

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2-2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 139859

Group Number(s): 1641929

Client: CT Male

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/18/2016 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	NaS2O4
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 10:22 on 03/18/2016

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	DT146	2.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 14, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/24/2016
Group Number: 1643769
SDG: SGP10
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
180 River Rd 0" to 6" Grab Soil	8301012
180 River Rd 6" to 12" Grab Soil	8301013
180 River Rd 12" to 18" Grab Soil	8301014
180 River Rd 18" to 24" Grab Soil	8301015
Chemfab Along River 0" to 6" Grab Soil	8301016
Chemfab Along River 6" to 12" Grab Soil	8301017
Chemfab Along River 12" to 18" Grab Soil	8301018
Chemfab Along River 18" to 24" Grab Soil	8301019
Chemfab W Side 0" to 6" Grab Soil	8301020
Chemfab W Side 6" to 12" Grab Soil	8301021
Chemfab W Side 12" to 18" Grab Soil	8301022
Chemfab W Side 18" to 24" Grab Soil	8301023
Lake Paran 0" to 6" Grab Soil	8301024
Lake Paran 6" to 12" Grab Soil	8301025
Lake Paran 12" to 18" Grab Soil	8301026
Lake Paran 18" to 24" Grab Soil	8301027
Auger Rinse #7 Grab Blank Water	8301028
Bowl Rinse #7 Grab Blank Water	8301029
Transport Blank 032316 Blank Water	8301030
16 Wilkey Way 0" to 6" Grab Soil	8301031
16 Wilkey Way Duplicate Grab Soil	8301032
16 Wilkey Way 6" to 12" Grab Soil	8301033
16 Wilkey Way 6" to 12" MS Grab Soil	8301034
16 Wilkey Way 6" to 12" MSD Grab Soil	8301035
16 Wilkey Way 6" to 12" Dupl Grab Soil	8301036
16 Wilkey Way 12" to 18" Grab Soil	8301037
16 Wilkey Way 18" to 24" Grab Soil	8301038
Chemfab Blowdown East 0" to 6" Grab Soil	8301039
Chemfab Blowdown East 6" to 12" Grab Soil	8301040
Chemfab Blowdown East 12" to 18" Grab Soil	8301041
Chemfab Blowdown East 18" to 24" Grab Soil	8301042

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643769

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8301028-8301030 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16098007 (Sample number(s): 8301012-8301027, 8301031-8301035, 8301037 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotridecanoic acid

Batch #: 16098008 (Sample number(s): 8301038-8301042 UNSPK: 8301038)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16089049531A (Sample number(s): 8301018-8301027 UNSPK: 8301018 BKG: 8301018)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16089049531B (Sample number(s): 8301031, 8301041-8301042 UNSPK: 8301042 BKG: 8301042)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: 180 River Rd 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301012
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 09:04 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1001 SDG#: SGP10-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.73		0.24	0.49	1
14027	Perfluorododecanoic acid	307-55-1	1.7		0.49	0.98	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.9	JB	0.85	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.0		0.37	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.98	1
14027	Perfluorotridecanoic acid	72629-94-8	1.6		0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.90		0.37	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	20,500		667	2,000	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 10:36	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631B	03/29/2016 01:00	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 180 River Rd 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301013
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 09:15 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1002 SDG#: SGP10-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	1.1	U	1.1	3.4	2
14027	Perfluorodecanoic acid	335-76-2	0.43	U	0.43	0.86	2
14027	Perfluorododecanoic acid	307-55-1	1.4	J	0.86	1.7	2
14027	Perfluoroheptanoic acid	375-85-9	0.64	U	0.64	1.3	2
14027	Perfluorohexanesulfonate	355-46-4	1.1	U	1.1	3.4	2
14027	Perfluorohexanoic acid	307-24-4	0.43	U	0.43	0.86	2
14027	Perfluorononanoic acid	375-95-1	0.43	U	0.43	0.43	2
14027	Perfluoro-octanesulfonate	1763-23-1	1.5	U	1.5	3.4	2
14027	Perfluorooctanoic acid	335-67-1	0.66	J	0.64	1.3	2
14027	Perfluorotetradecanoic acid	376-06-7	0.64	U	0.64	1.7	2
14027	Perfluorotridecanoic acid	72629-94-8	1.3	U	1.3	2.6	2
14027	Perfluoroundecanoic acid	2058-94-8	0.64	U	0.64	1.3	2
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,320		439	1,320	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	6.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 10:54	Jason W Knight	2
02079	TOC	SM 5310 B modified-2000	1	16088949631B	03/29/2016 01:14	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 180 River Rd 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301014
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 09:23 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1003 SDG#: SGP10-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.54	U	0.54	1.7	1
14027	Perfluorodecanoic acid	335-76-2	0.21	U	0.21	0.43	1
14027	Perfluorododecanoic acid	307-55-1	0.63	J	0.43	0.86	1
14027	Perfluoroheptanoic acid	375-85-9	0.32	U	0.32	0.64	1
14027	Perfluorohexanesulfonate	355-46-4	0.54	U	0.54	1.7	1
14027	Perfluorohexanoic acid	307-24-4	0.21	U	0.21	0.43	1
14027	Perfluorononanoic acid	375-95-1	0.21	U	0.21	0.43	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.75	U	0.75	1.7	1
14027	Perfluorooctanoic acid	335-67-1	0.32	U	0.32	0.64	1
14027	Perfluorotetradecanoic acid	376-06-7	0.32	U	0.32	0.86	1
14027	Perfluorotridecanoic acid	72629-94-8	0.64	U	0.64	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.32	U	0.32	0.64	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	5,400		294	881	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	6.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 11:11	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631B	03/29/2016 01:26	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 180 River Rd 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301015
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 09:33 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1004 SDG#: SGP10-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.55	U	0.55	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.41	J	0.22	0.44	1
14027	Perfluorododecanoic acid	307-55-1	0.54	J	0.44	0.89	1
14027	Perfluoroheptanoic acid	375-85-9	0.33	U	0.33	0.66	1
14027	Perfluorohexanesulfonate	355-46-4	0.55	U	0.55	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.44	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.44	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.99	JB	0.78	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.33	U	0.33	0.66	1
14027	Perfluorotetradecanoic acid	376-06-7	0.33	U	0.33	0.89	1
14027	Perfluorotridecanoic acid	72629-94-8	0.66	U	0.66	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.33	U	0.33	0.66	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,100		382	1,150	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	9.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 11:47	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631B	03/29/2016 01:40	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

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/g		ng/g	ng/g
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.94	J	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16098008	Sample number(s): 8301038-8301042			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8301028-8301030			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040			
TOC	100	U	100	300
Batch number: 16088949631B	Sample number(s): 8301012-8301017			
TOC	100	U	100	300
Batch number: 16089049531A	Sample number(s): 8301018-8301027			
TOC	100	U	100	300
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037								
Perfluorobutanesulfonate	20	19.73			99		70-130		
Perfluorodecanoic acid	20	17.73			89		70-130		
Perfluorododecanoic acid	20	20.72			104		70-130		
Perfluoroheptanoic acid	20	19.02			95		70-130		
Perfluorohexanesulfonate	20	16.59			83		70-130		
Perfluorohexanoic acid	20	19.41			97		70-130		
Perfluorononanoic acid	20	19.6			98		70-130		
Perfluoro-octanesulfonate	20	20.09			100		70-130		
Perfluorooctanoic acid	20	21.8			109		70-130		
Perfluorotetradecanoic acid	20	18.88			94		70-130		
Perfluorotridecanoic acid	20	20.53			103		70-130		
Perfluoroundecanoic acid	20	17.63			88		70-130		
Batch number: 16098008	Sample number(s): 8301038-8301042								
Perfluorobutanesulfonate	20	21.89			109		70-130		
Perfluorodecanoic acid	20	17.53			88		70-130		
Perfluorododecanoic acid	20	14.26			71		70-130		
Perfluoroheptanoic acid	20	21.3			106		70-130		
Perfluorohexanesulfonate	20	16.16			81		70-130		
Perfluorohexanoic acid	20	21.67			108		70-130		
Perfluorononanoic acid	20	18.8			94		70-130		
Perfluoro-octanesulfonate	20	15.23			76		70-130		
Perfluorooctanoic acid	20	19.52			98		70-130		
Perfluorotetradecanoic acid	20	18.99			95		70-130		
Perfluorotridecanoic acid	20	18.63			93		70-130		
Perfluoroundecanoic acid	20	21.2			106		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8301028-8301030								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

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
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040								
TOC	5430	5025.76			93		47-143		
Batch number: 16088949631B	Sample number(s): 8301012-8301017								
TOC	5430	5025.76			93		47-143		
Batch number: 16089049531A	Sample number(s): 8301018-8301027								
TOC	5430	4071.68			75		47-143		
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042								
TOC	5430	4071.68			75		47-143		
	%	**%**	**%**	**%**					
Batch number: 16084820009A	Sample number(s): 8301012-8301019,8301032								
Moisture	89.5	89.44			100		99-101		
Batch number: 16084820009B	Sample number(s): 8301020-8301027,8301031,8301033-8301037								
Moisture	89.5	89.44			100		99-101		
Moisture	89.5	89.44			100		99-101		
Moisture Duplicate	89.5	89.44			100		99-101		
Batch number: 16084820010B	Sample number(s): 8301038-8301042								
Moisture	89.5	89.45			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037 UNSPK: 8301033									
Perfluorobutanesulfonate	0.50 U	20	18.05	20	18.91	90	95	70-130	5	30
Perfluorodecanoic acid	0.20 U	20	18.02	20	15.8	90	79	70-130	13	30
Perfluorododecanoic acid	0.411	20	15.04	20	14.72	73	72	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	22.81	20	17.5	114	88	70-130	26	30
Perfluorohexanesulfonate	0.50 U	20	14.26	20	15.43	71	77	70-130	8	30
Perfluorohexanoic acid	0.20 U	20	17.29	20	20.88	86	104	70-130	19	30
Perfluorononanoic acid	0.250	20	21.42	20	19.28	106	95	70-130	11	30
Perfluoro-octanesulfonate	0.70 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorooctanoic acid	2.50	20	24.37	20	21.12	109	93	70-130	14	30
Perfluorotetradecanoic acid	0.30 U	20	21.78	20	16.63	109	83	70-130	27	30
Perfluorotridecanoic acid	0.60 U	20	13.3	20	16.41	67*	82	70-130	21	30
Perfluoroundecanoic acid	0.30 U	20	14.66	20	17.47	73	87	70-130	17	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16098008	Sample number(s): 8301038-8301042 UNSPK: 8301038									
Perfluorobutanesulfonate	0.50 U	20	21.39	20	18.19	107	91	70-130	16	30
Perfluorodecanoic acid	0.20 U	20	17.75	20	19.06	89	95	70-130	7	30
Perfluorododecanoic acid	0.444	20	14.56	20	15.26	71	74	70-130	5	30
Perfluoroheptanoic acid	0.30 U	20	19.67	20	16.94	98	85	70-130	15	30
Perfluorohexanesulfonate	0.50 U	20	13.07	20	15.84	65*	79	70-130	19	30
Perfluorohexanoic acid	0.20 U	20	18.53	20	18.57	93	93	70-130	0	30
Perfluorononanoic acid	0.20 U	20	18.28	20	18.37	91	92	70-130	0	30
Perfluoro-octanesulfonate	1.07	20	13.95	20	19.52	64*	92	70-130	33*	30
Perfluorooctanoic acid	4.23	20	22.25	20	24.77	90	103	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	17.28	20	16.62	86	83	70-130	4	30
Perfluorotridecanoic acid	0.60 U	20	15.13	20	15.72	76	79	70-130	4	30
Perfluoroundecanoic acid	0.30 U	20	15.46	20	17.98	77	90	70-130	15	30
	ng/l	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8301028-8301030 UNSPK: 8298619									
Perfluorooctanoic acid	353.46	200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77	200	212.06			100		70-130		
Perfluorodecanoic acid	4 U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24	200	217.48			105		70-130		
Perfluorododecanoic acid	10 U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8 U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10 U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4 U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94	200	220.71			94		70-130		
Perfluorobutanesulfonate	20 U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20 U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20 U	200	277.75			139*		70-130		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040 UNSPK: 8301033									
TOC	11042.87	22108	34443.63			106		47-143		
Batch number: 16088949631B	Sample number(s): 8301012-8301017 UNSPK: 8301017									
TOC	4953.35	43605	55174.42			115		47-143		
Batch number: 16089049531A	Sample number(s): 8301018-8301027 UNSPK: 8301018									
TOC	9041.43	60241	70863.45			103		47-143		
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042 UNSPK: 8301042									
TOC	2707.3	29098	24548.98			75		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040 BKG: 8301033			
TOC	11042.87	10354.22	6	7

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16088949631B	Sample number(s): 8301012-8301017 BKG: 8301017			
TOC	4953.35	4680.57	6 (1)	7
Batch number: 16089049531A	Sample number(s): 8301018-8301027 BKG: 8301018			
TOC	9041.43	5388.51	51* (1)	7
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042 BKG: 8301042			
TOC	2707.3	2318.34	15* (1)	7
	%	%		
Batch number: 16084820009A	Sample number(s): 8301012-8301019,8301032 BKG: 8301032			
Moisture	28.78	28.39	1	5
Batch number: 16084820009B	Sample number(s): 8301020-8301027,8301031,8301033-8301037 BKG: 8301033, P301033			
Moisture	24.1	24.34	1	5
Moisture	24.1	24.34	1	5
Moisture Duplicate	24.1	24.34	1	5
Batch number: 16084820010B	Sample number(s): 8301038-8301042 BKG: 8301038			
Moisture	25.26	25.54	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1643769 Sample # 8301012-42

COC # 493364

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ____

Analysis Requested / Preservation Codes

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	EPA 537	TOC	Moisture	Remarks
180 River Rd 0" to 6"	3/23/16	0904	X		2	X	X	X	
180 River Rd 6" to 12"	3/23/16	0915	X		2	X	X	X	
180 River Rd 12" to 18"	3/23/16	0923	X		2	X	X	X	
180 River Rd 18" to 24"	3/23/16	0933	X		2	X	X	X	
Chemfab Along River 0" to 6"	3/23/16	0955	X		2	X	X	X	
Chemfab Along River 6" to 12"	3/23/16	1003	X		2	X	X	X	
Chemfab Along River 12" to 18"	3/23/16	1011	X		2	X	X	X	
Chemfab Along River 18" to 24"	3/23/16	1019	X		2	X	X	X	
Chemfab W. Side 0" to 6"	3/23/16	1044	X		2	X	X	X	
Chemfab W. Side 6" to 12"	3/23/16	1053	X		2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx x Other ____

Temperature upon receipt 2.6-3.4 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643769 Sample # 8301012-42

COC # 493466

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil (Sediment ☐)	Water: Potable ☐ Ground ☐ Surface ☐ NPDES ☐	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
Preservation Codes												O							
Chemfab W Side 12" to 18"	3/23/16	1102	X		X			2	X	X	X								
Chemfab W Side 18" to 24"	3/23/16	1111	X		X			2	X	X	X								
Lake Paran 0" to 6"	3/23/16	1147	X		X			2	X	X	X								
Lake Paran 6" to 12"	3/23/16	1202	X		X			2	X	X	X								
Lake Paran 12" to 18"	3/23/16	1212	X		X			2	X	X	X								
Lake Paran 18" to 24"	3/23/16	1218	X		X			2	X	X	X								
Auger Rinse #7	3/23/16	1220	X			X		2				X							Lab DI Water
Bowl Rinse #7	3/23/16	1222	X			X		2				X							Lab DI Water
Transport Blank 032316	3/16/16	—	X			X		1				X							Lab supplied
16 Wilkey Way 0" to 6"	3/23/16	1344	X		X			2	X	X	X								

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day per bid

E-mail address: K.Moline@CTMale.com

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			

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

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.6-7.9 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643169 Sample # 8301012-42

COC # 493460

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
16 Wilkey Way Duplicate	3/23/16	1348	X			X							1	X	~~X~~		
16 Wilkey Way 6" to 12"	3/23/16	1351	X			X							4	X	X	X	MS/MSD here
16 Wilkey Way 12" to 18"	3/23/16	1357	X			X							2	X	X	X	
16 Wilkey Way 18" to 24"	3/23/16	1405	X			X							2	X	X	X	
Chemfab Blowdown East 0" to 6"	3/23/16	1500	X			X							2	X	X	X	
Chemfab Blowdown East 6" to 12"	3/23/16	1508	X			X							2	X	X	X	
Chemfab Blowdown East 12" to 18"	3/23/16	1515	X			X							2	X	X	X	
Chemfab Blowdown East 18" to 24"	3/23/16	1520	X			X							2	X	X	X	

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			
				3.24.16	945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx X Other

Temperature upon receipt 2.6-2.9 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140454

Group Number(s): 1643769

Client: C.T. Male Assoc.

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/24/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	No	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 11:23 on 03/24/2016

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	3.9	DT	Wet	Y	Bagged	N
2	DT131	2.6	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
180 River Rd 6" to 12"	4.5 oz.plastic cup w/screw lid - None	1	N	Jar broken.

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/19/2016
Group Number: 1642373
SDG: SGP05
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
6 Royal St 0" to 6" Grab Soil	8294109
6 Royal St 6" to 12" Grab Soil	8294110
6 Royal St 12" to 18" Grab Soil	8294111
6 Royal St 18" to 24" Grab Soil	8294112
22 Asa Way 0" to 6" Grab Soil	8294113
22 Asa Way 6" to 12" Grab Soil	8294114
5 Scarey Lane 0" to 6" Grab Soil	8294115
5 Scarey Lane 6" to 12" Grab Soil	8294116
5 Scarey Lane 12" to 18" Grab Soil	8294117
5 Scarey Lane 18" to 24" Grab Soil	8294118
Auger Rinse #2 Grab Blank Water	8294119
Transport Blank Water	8294120
32 Scarey Lane 0" to 6" Grab Soil	8294121
32 Scarey Lane 6" to 12" Grab Soil	8294122
32 Scarey Lane 12" to 18" Grab Soil	8294123
32 Scarey Lane 18" to 24" Grab Soil	8294124
15 Scarey Lane 0" to 6" Grab Soil	8294125
15 Scarey Lane 0" to 6" MS Grab Soil	8294126
15 Scarey Lane 0" to 6" MSD Grab Soil	8294127
15 Scarey Lane 0" to 6" Dupl Grab Soil	8294128
15 Scarey Lane 6" to 12" Grab Soil	8294129
15 Scarey Lane Duplicate Grab Soil	8294130
765 Murphy Rd 0" to 6" Grab Soil	8294131
765 Murphy Rd 6" to 12" Grab Soil	8294132
765 Murphy Rd 12" to 18" Grab Soil	8294133
765 Murphy Rd 18" to 24" Grab Soil	8294134
Bowl Rinse #2 Grab Blank Water	8294135

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642373

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8294119, 8294120, 8294135

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

Batch #: 16083003 (Sample number(s): 8294119-8294120, 8294135)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16083007 (Sample number(s): 8294129-8294134 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16081049531A (Sample number(s): 8294109-8294118 UNSPK: 8294109 BKG: 8294109)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16081049531B (Sample number(s): 8294121-8294126, 8294128-8294129, 8294131-8294134 UNSPK: 8294125 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16081820004B (Sample number(s): 8294122-8294133 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

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Analysis Report

Sample Description: 6 Royal St 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294109
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 09:46 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0501 SDG#: SGP05-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	J	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.49	J	0.47	0.95	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.82		0.36	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.95	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.54	J	0.36	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,860		380	1,140	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/27/2016 22:12	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 21:43	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 6 Royal St 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294110
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 09:52 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0502 SDG#: SGP05-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.53	U	0.53	1.7	1
14027	Perfluorodecanoic acid	335-76-2	0.21	U	0.21	0.43	1
14027	Perfluorododecanoic acid	307-55-1	0.43	U	0.43	0.85	1
14027	Perfluoroheptanoic acid	375-85-9	0.32	U	0.32	0.64	1
14027	Perfluorohexanesulfonate	355-46-4	0.53	U	0.53	1.7	1
14027	Perfluorohexanoic acid	307-24-4	0.21	U	0.21	0.43	1
14027	Perfluorononanoic acid	375-95-1	0.21	U	0.21	0.43	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.75	U	0.75	1.7	1
14027	Perfluorooctanoic acid	335-67-1	0.32	U	0.32	0.64	1
14027	Perfluorotetradecanoic acid	376-06-7	0.32	U	0.32	0.85	1
14027	Perfluorotridecanoic acid	72629-94-8	0.64	U	0.64	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.32	U	0.32	0.64	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	1,230		107	321	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	6.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/27/2016 22:26	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 22:12	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 6 Royal St 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294111
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 10:01 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0503 SDG#: SGP05-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.76		0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.87	U	0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	0.37	U	0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,490		222	667	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/27/2016 22:41	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 22:23	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 6 Royal St 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294112
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 10:15 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0504 SDG#: SGP05-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	1.0		0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	0.55	J	0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,860		350	1,050	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/27/2016 22:55	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 22:33	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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/g		ng/g	ng/g
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16083007	Sample number(s): 8294129-8294134			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16081049531A	Sample number(s): 8294109-8294118			
TOC	100	U	100	300
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127								
Perfluorobutanesulfonate	20	19.13			96		70-130		
Perfluorodecanoic acid	20	20.15			101		70-130		
Perfluorododecanoic acid	20	21.22			106		70-130		
Perfluoroheptanoic acid	20	23.61			118		70-130		
Perfluorohexanesulfonate	20	16.81			84		70-130		
Perfluorohexanoic acid	20	18.65			93		70-130		
Perfluorononanoic acid	20	21.45			107		70-130		
Perfluoro-octanesulfonate	20	19.23			96		70-130		
Perfluorooctanoic acid	20	18.42			92		70-130		
Perfluorotetradecanoic acid	20	17.58			88		70-130		
Perfluorotridecanoic acid	20	19.08			95		70-130		
Perfluoroundecanoic acid	20	21.06			105		70-130		
Batch number: 16083007	Sample number(s): 8294129-8294134								
Perfluorobutanesulfonate	20	16.31			82		70-130		
Perfluorodecanoic acid	20	20.04			100		70-130		
Perfluorododecanoic acid	20	19.69			98		70-130		
Perfluoroheptanoic acid	20	23.65			118		70-130		
Perfluorohexanesulfonate	20	21.63			108		70-130		
Perfluorohexanoic acid	20	20.64			103		70-130		
Perfluorononanoic acid	20	17.96			90		70-130		
Perfluoro-octanesulfonate	20	19.76			99		70-130		
Perfluorooctanoic acid	20	19.43			97		70-130		
Perfluorotetradecanoic acid	20	20.15			101		70-130		
Perfluorotridecanoic acid	20	20.23			101		70-130		
Perfluoroundecanoic acid	20	20.17			101		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118								
TOC	5430	5548.1			102		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134								
TOC	5430	5548.1			102		47-143		
	%	%	%	%					
Batch number: 16081820003A	Sample number(s): 8294134								
Moisture	89.5	89.47			100		99-101		
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121								
Moisture	89.5	89.53			100		99-101		
Batch number: 16081820004B	Sample number(s): 8294122-8294133								
Moisture	89.5	89.53			100		99-101		
Moisture	89.5	89.53			100		99-101		
Moisture Duplicate	89.5	89.53			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127 UNSPK: 8294125									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	17.21	84	86	70-130	3	30
Perfluorodecanoic acid	1.51	20	22.99	20	22.62	107	106	70-130	2	30
Perfluorododecanoic acid	0.826	20	21.78	20	22.23	105	107	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	23.26	20	20.21	116	101	70-130	14	30
Perfluorohexanesulfonate	0.50 U	20	19.99	20	18.07	100	90	70-130	10	30
Perfluorohexanoic acid	0.292	20	19.68	20	18.57	97	91	70-130	6	30
Perfluorononanoic acid	0.339	20	21.68	20	21.51	107	106	70-130	1	30
Perfluoro-octanesulfonate	0.70 U	20	14.5	20	15.09	72	75	70-130	4	30
Perfluorooctanoic acid	1.13	20	20.62	20	20.3	97	96	70-130	2	30
Perfluorotetradecanoic acid	0.30 U	20	18.21	20	20.02	91	100	70-130	9	30
Perfluorotridecanoic acid	0.60 U	20	20.28	20	19.02	101	95	70-130	6	30
Perfluoroundecanoic acid	1.03	20	19.61	20	21	93	100	70-130	7	30
Batch number: 16083007	Sample number(s): 8294129-8294134 UNSPK: 8294129									
Perfluorobutanesulfonate	0.50 U	20	20.49	20	15.85	102	79	70-130	26	30
Perfluorodecanoic acid	1.06	20	25.19	20	24.46	121	117	70-130	3	30
Perfluorododecanoic acid	0.478	20	21.26	20	24.16	104	118	70-130	13	30
Perfluoroheptanoic acid	0.30 U	20	23.28	20	25.27	116	126	70-130	8	30
Perfluorohexanesulfonate	0.50 U	20	17.34	20	12.17	87	61*	70-130	35*	30
Perfluorohexanoic acid	0.264	20	21.43	20	20.18	106	100	70-130	6	30
Perfluorononanoic acid	0.388	20	21.82	20	20.99	107	103	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	15.84	20	24.76	79	124	70-130	44*	30
Perfluorooctanoic acid	1.06	20	23.61	20	21.75	113	103	70-130	8	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotetradecanoic acid	0.30 U	20	20.41	20	24.03	102	120	70-130	16	30
Perfluorotridecanoic acid	0.60 U	20	17.55	20	22.39	88	112	70-130	24	30
Perfluoroundecanoic acid	0.457	20	21.24	20	22.78	104	112	70-130	7	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118 UNSPK: 8294109									
TOC	7485.57	41494	54951.59			114		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 UNSPK: 8294125									
TOC	17171.34	60852	89858.01			119		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16081049531A	Sample number(s): 8294109-8294118 BKG: 8294109			
TOC	7485.57	8675.88	15*	7
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 BKG: 8294125			
TOC	17171.34	18766.82	9*	7
	%	%		
Batch number: 16081820003A	Sample number(s): 8294134 BKG: P293163			
Moisture	17.64	17.91	2	5
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121 BKG: 8294121			
Moisture	21.05	20.45	3	5
Batch number: 16081820004B	Sample number(s): 8294122-8294133 BKG: 8294125, P294125			
Moisture	23.09	19.86	15*	5
Moisture	23.09	19.86	15*	5
Moisture Duplicate	23.09	19.86	15*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493356

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground Water	Potable	Surface	NPDES	Other:	Total # of Containers	EPA 537	Moisture	TOC	Remarks
6 Royal St 0" to 6"	3/17/16	0946	✓			✓						3	X	X	X	
6 Royal St 6" to 12"	3/17/16	0952	✓			✓						3	X	X	X	
6 Royal St 12" to 18"	3/17/16	1001	✓			✓						3	X	X	X	
6 Royal St 18" to 24"	3/17/16	1015	✓			✓						3	X	X	X	
22 Asa Way 0" to 6"	3/17/16	1050	✓			✓						2	X	X	X	
22 Asa Way 6" to 12"	3/17/16	1100	✓			✓						2	X	X	X	
LC ~~22 Asa Way 12" to 18"~~			✓			✓										
LC ~~22 Asa Way 18" to 24"~~			✓			✓										
5 Scarey Lane 0" to 6"	3/17/16	1148	✓			✓						2	X	X	X	
5 Scarey Lane 6" to 12"	3/17/16	1200	✓			✓						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1647373 Sample # 8294109-35

COC # 493358

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Potable ☐	Surface ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537						Remarks
																O							
5 Scarey Lane 12" to 18"	3/17/16	1208	X			X							2	X	X	X							
5 Scarey Lane 18" to 24"	3/17/16	1217	X			X							2	X	X	X							
Auger Rinse #2	3/17/16	1222	X					X					2	~~X~~		~~X~~ X							Lab DI Water
Transport Blank	3/17/16	—	X					X					1	~~X~~		~~X~~ X							Lab provided
32 Scarey Lane 0" to 6"	3/17/16	1328	X			X							2	X	X	X							
32 Scarey Lane 6" to 12"	3/17/16	1338	X			X							2	X	X	X							
32 Scarey Lane 12" to 18"	3/17/16	1343	X			X							2	X	X	X							
32 Scarey Lane 18" to 24"	3/17/16	1352	X			X							2	X	X	X							
15 Scarey Lane 0" to 6"	3/17/16	1445	X			X							4	X	X	X							MS/MSD here
15 Scarey Lane 6" to 12"	3/17/16	1500	X			X							2	X	X	X							

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/18/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493359

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Soil ☒	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537							Remarks
																	9							
15 Searey Lane Duplicate	3/17/16	1450	X							X			1	X										
765 Murphy Rd 0" to 6"	3/17/16	1550	X							X			2	X	X	X								
765 Murphy Rd 6" to 12"	3/17/16	1600	X							X			2	X	X	X								
765 Murphy Rd 12" to 18"	3/17/16	1612	X							X			2	X	X	X								
765 Murphy Rd 18" to 24"	3/17/16	1623	X							X			2	X	X	X								
Bowl Rinse #2	3/17/16	1840	X					X					2				X							Lab DI Water

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	07:11
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140007

Group Number(s): 1642373

Client: CT Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/19/2016 9:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 250mL Na2S2O3 Preserved Poly

Unpacked by Patrick Engle (3472) at 10:46 on 03/19/2016

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	DT121	4.8	DT	Wet	Y	Bagged	N
2	DT121	4.5	DT	Wet	Y	Bagged	N
3	DT121	3.1	DT	Wet	Y	Bagged	N
4	DT121	4.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/19/2016
Group Number: 1642373
SDG: SGP05
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
6 Royal St 0" to 6" Grab Soil	8294109
6 Royal St 6" to 12" Grab Soil	8294110
6 Royal St 12" to 18" Grab Soil	8294111
6 Royal St 18" to 24" Grab Soil	8294112
22 Asa Way 0" to 6" Grab Soil	8294113
22 Asa Way 6" to 12" Grab Soil	8294114
5 Scarey Lane 0" to 6" Grab Soil	8294115
5 Scarey Lane 6" to 12" Grab Soil	8294116
5 Scarey Lane 12" to 18" Grab Soil	8294117
5 Scarey Lane 18" to 24" Grab Soil	8294118
Auger Rinse #2 Grab Blank Water	8294119
Transport Blank Water	8294120
32 Scarey Lane 0" to 6" Grab Soil	8294121
32 Scarey Lane 6" to 12" Grab Soil	8294122
32 Scarey Lane 12" to 18" Grab Soil	8294123
32 Scarey Lane 18" to 24" Grab Soil	8294124
15 Scarey Lane 0" to 6" Grab Soil	8294125
15 Scarey Lane 0" to 6" MS Grab Soil	8294126
15 Scarey Lane 0" to 6" MSD Grab Soil	8294127
15 Scarey Lane 0" to 6" Dupl Grab Soil	8294128
15 Scarey Lane 6" to 12" Grab Soil	8294129
15 Scarey Lane Duplicate Grab Soil	8294130
765 Murphy Rd 0" to 6" Grab Soil	8294131
765 Murphy Rd 6" to 12" Grab Soil	8294132
765 Murphy Rd 12" to 18" Grab Soil	8294133
765 Murphy Rd 18" to 24" Grab Soil	8294134
Bowl Rinse #2 Grab Blank Water	8294135

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642373

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8294119, 8294120, 8294135

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

Batch #: 16083003 (Sample number(s): 8294119-8294120, 8294135)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16083007 (Sample number(s): 8294129-8294134 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16081049531A (Sample number(s): 8294109-8294118 UNSPK: 8294109 BKG: 8294109)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16081049531B (Sample number(s): 8294121-8294126, 8294128-8294129, 8294131-8294134 UNSPK: 8294125 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16081820004B (Sample number(s): 8294122-8294133 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

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Analysis Report

Sample Description: 5 Scarey Lane 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294115
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 11:48 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0507 SDG#: SGP05-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.65	U	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	3.8		0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	1.6		0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	0.65	U	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	1.3		0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.91	U	0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	6.2		0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.78	U	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	1.9		0.39	0.78	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	32,000		960	2,880	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	22.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 12:30	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 23:26	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 5 Scarey Lane 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294116
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 12:00 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0508 SDG#: SGP05-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	1.2		0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	0.59	J	0.50	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	1.1		0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.88	U	0.88	2.0	1
14027	Perfluorooctanoic acid	335-67-1	5.9		0.38	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.75	U	0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	18,600		881	2,640	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	20.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 12:44	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 23:34	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 5 Scarey Lane 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294117
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 12:08 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0509 SDG#: SGP05-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.60		0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.98	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.52		0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	1.1		0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	U	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	7.1		0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.98	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.42	J	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	15,900		1,400	4,200	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 12:58	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 23:50	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

Sample Description: 5 Scarey Lane 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294118
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 12:17 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0510 SDG#: SGP05-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.67		0.24	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.98	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.82		0.24	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.5	J	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	8.2		0.37	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.98	1
14027	Perfluorotridecanoic acid	72629-94-8	0.73	U	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	13,800		638	1,910	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 13:13	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531A	03/21/2016 23:58	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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/g		ng/g	ng/g
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16083007	Sample number(s): 8294129-8294134			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16081049531A	Sample number(s): 8294109-8294118			
TOC	100	U	100	300
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127								
Perfluorobutanesulfonate	20	19.13			96		70-130		
Perfluorodecanoic acid	20	20.15			101		70-130		
Perfluorododecanoic acid	20	21.22			106		70-130		
Perfluoroheptanoic acid	20	23.61			118		70-130		
Perfluorohexanesulfonate	20	16.81			84		70-130		
Perfluorohexanoic acid	20	18.65			93		70-130		
Perfluorononanoic acid	20	21.45			107		70-130		
Perfluoro-octanesulfonate	20	19.23			96		70-130		
Perfluorooctanoic acid	20	18.42			92		70-130		
Perfluorotetradecanoic acid	20	17.58			88		70-130		
Perfluorotridecanoic acid	20	19.08			95		70-130		
Perfluoroundecanoic acid	20	21.06			105		70-130		
Batch number: 16083007	Sample number(s): 8294129-8294134								
Perfluorobutanesulfonate	20	16.31			82		70-130		
Perfluorodecanoic acid	20	20.04			100		70-130		
Perfluorododecanoic acid	20	19.69			98		70-130		
Perfluoroheptanoic acid	20	23.65			118		70-130		
Perfluorohexanesulfonate	20	21.63			108		70-130		
Perfluorohexanoic acid	20	20.64			103		70-130		
Perfluorononanoic acid	20	17.96			90		70-130		
Perfluoro-octanesulfonate	20	19.76			99		70-130		
Perfluorooctanoic acid	20	19.43			97		70-130		
Perfluorotetradecanoic acid	20	20.15			101		70-130		
Perfluorotridecanoic acid	20	20.23			101		70-130		
Perfluoroundecanoic acid	20	20.17			101		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118								
TOC	5430	5548.1			102		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134								
TOC	5430	5548.1			102		47-143		
	%	%	%	%					
Batch number: 16081820003A	Sample number(s): 8294134								
Moisture	89.5	89.47			100		99-101		
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121								
Moisture	89.5	89.53			100		99-101		
Batch number: 16081820004B	Sample number(s): 8294122-8294133								
Moisture	89.5	89.53			100		99-101		
Moisture	89.5	89.53			100		99-101		
Moisture Duplicate	89.5	89.53			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127 UNSPK: 8294125									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	17.21	84	86	70-130	3	30
Perfluorodecanoic acid	1.51	20	22.99	20	22.62	107	106	70-130	2	30
Perfluorododecanoic acid	0.826	20	21.78	20	22.23	105	107	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	23.26	20	20.21	116	101	70-130	14	30
Perfluorohexanesulfonate	0.50 U	20	19.99	20	18.07	100	90	70-130	10	30
Perfluorohexanoic acid	0.292	20	19.68	20	18.57	97	91	70-130	6	30
Perfluorononanoic acid	0.339	20	21.68	20	21.51	107	106	70-130	1	30
Perfluoro-octanesulfonate	0.70 U	20	14.5	20	15.09	72	75	70-130	4	30
Perfluorooctanoic acid	1.13	20	20.62	20	20.3	97	96	70-130	2	30
Perfluorotetradecanoic acid	0.30 U	20	18.21	20	20.02	91	100	70-130	9	30
Perfluorotridecanoic acid	0.60 U	20	20.28	20	19.02	101	95	70-130	6	30
Perfluoroundecanoic acid	1.03	20	19.61	20	21	93	100	70-130	7	30
Batch number: 16083007	Sample number(s): 8294129-8294134 UNSPK: 8294129									
Perfluorobutanesulfonate	0.50 U	20	20.49	20	15.85	102	79	70-130	26	30
Perfluorodecanoic acid	1.06	20	25.19	20	24.46	121	117	70-130	3	30
Perfluorododecanoic acid	0.478	20	21.26	20	24.16	104	118	70-130	13	30
Perfluoroheptanoic acid	0.30 U	20	23.28	20	25.27	116	126	70-130	8	30
Perfluorohexanesulfonate	0.50 U	20	17.34	20	12.17	87	61*	70-130	35*	30
Perfluorohexanoic acid	0.264	20	21.43	20	20.18	106	100	70-130	6	30
Perfluorononanoic acid	0.388	20	21.82	20	20.99	107	103	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	15.84	20	24.76	79	124	70-130	44*	30
Perfluorooctanoic acid	1.06	20	23.61	20	21.75	113	103	70-130	8	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotetradecanoic acid	0.30 U	20	20.41	20	24.03	102	120	70-130	16	30
Perfluorotridecanoic acid	0.60 U	20	17.55	20	22.39	88	112	70-130	24	30
Perfluoroundecanoic acid	0.457	20	21.24	20	22.78	104	112	70-130	7	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118 UNSPK: 8294109									
TOC	7485.57	41494	54951.59			114		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 UNSPK: 8294125									
TOC	17171.34	60852	89858.01			119		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16081049531A	Sample number(s): 8294109-8294118 BKG: 8294109			
TOC	7485.57	8675.88	15*	7
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 BKG: 8294125			
TOC	17171.34	18766.82	9*	7
	%	%		
Batch number: 16081820003A	Sample number(s): 8294134 BKG: P293163			
Moisture	17.64	17.91	2	5
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121 BKG: 8294121			
Moisture	21.05	20.45	3	5
Batch number: 16081820004B	Sample number(s): 8294122-8294133 BKG: 8294125, P294125			
Moisture	23.09	19.86	15*	5
Moisture	23.09	19.86	15*	5
Moisture Duplicate	23.09	19.86	15*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493356

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground Water	Potable	Surface	NPDES	Other:	Total # of Containers	EPA 537	Moisture	TOC	Remarks
6 Royal St 0" to 6"	3/17/16	0946	✓			✓						3	X	X	X	
6 Royal St 6" to 12"	3/17/16	0952	✓			✓						3	X	X	X	
6 Royal St 12" to 18"	3/17/16	1001	✓			✓						3	X	X	X	
6 Royal St 18" to 24"	3/17/16	1015	✓			✓						3	X	X	X	
22 Asa Way 0" to 6"	3/17/16	1050	✓			✓						2	X	X	X	
22 Asa Way 6" to 12"	3/17/16	1100	✓			✓						2	X	X	X	
LC ~~22 Asa Way 12" to 18"~~			✓			✓										
LC ~~22 Asa Way 18" to 24"~~			✓			✓										
5 Scarey Lane 0" to 6"	3/17/16	1148	✓			✓						2	X	X	X	
5 Scarey Lane 6" to 12"	3/17/16	1200	✓			✓						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1647373 Sample # 8294109-35

COC # 493358

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Potable ☐	Surface ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537						Remarks
																O							
5 Scarey Lane 12" to 18"	3/17/16	1208	X			X							2	X	X	X							
5 Scarey Lane 18" to 24"	3/17/16	1217	X			X							2	X	X	X							
Auger Rinse #2	3/17/16	1222	X					X					2	~~X~~		~~X~~ X							Lab DI Water
Transport Blank	3/17/16	—	X					X					1	~~X~~		~~X~~ X							Lab provided
32 Scarey Lane 0" to 6"	3/17/16	1328	X			X							2	X	X	X							
32 Scarey Lane 6" to 12"	3/17/16	1338	X			X							2	X	X	X							
32 Scarey Lane 12" to 18"	3/17/16	1343	X			X							2	X	X	X							
32 Scarey Lane 18" to 24"	3/17/16	1352	X			X							2	X	X	X							
15 Scarey Lane 0" to 6"	3/17/16	1445	X			X							4	X	X	X							MS/MSD here
15 Scarey Lane 6" to 12"	3/17/16	1500	X			X							2	X	X	X							

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/18/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493359

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Soil ☒	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537							Remarks
																	9							
15 Searey Lane Duplicate	3/17/16	1450	X							X			1	X										
765 Murphy Rd 0" to 6"	3/17/16	1550	X							X			2	X	X	X								
765 Murphy Rd 6" to 12"	3/17/16	1600	X							X			2	X	X	X								
765 Murphy Rd 12" to 18"	3/17/16	1612	X							X			2	X	X	X								
765 Murphy Rd 18" to 24"	3/17/16	1623	X							X			2	X	X	X								
Bowl Rinse #2	3/17/16	1840	X					X					2				X							Lab DI Water

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	07:11
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140007

Group Number(s): 1642373

Client: CT Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/19/2016 9:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 250mL Na2S2O3 Preserved Poly

Unpacked by Patrick Engle (3472) at 10:46 on 03/19/2016

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	DT121	4.8	DT	Wet	Y	Bagged	N
2	DT121	4.5	DT	Wet	Y	Bagged	N
3	DT121	3.1	DT	Wet	Y	Bagged	N
4	DT121	4.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/22/2016
Group Number: 1642988
SDG: SGP07
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Asa Way Vac Lot 0" to 6" Grab Soil	8297354
Asa Way Vac Lot 6" to 12" Grab Soil	8297355
Asa Way Vac Lot 12" to 18" Grab Soil	8297356
Asa Way Vac Lot 18" to 24" Grab Soil	8297357
Auger Rinse #4 Grab Blank Water	8297358
Bowl Rinse #4 Grab Blank Water	8297359
Transport Blank 032116 Water	8297360
26 Susan Taylor 0" to 6" Grab Soil	8297361
26 Susan Taylor 0" to 6" MS Grab Soil	8297362
26 Susan Taylor 0" to 6" MSD Grab Soil	8297363
26 Susan Taylor 0" to 6" Dupl Grab Soil	8297364
26 Susan Taylor Duplicate Grab Soil	8297365
26 Susan Taylor 6" to 12" Grab Soil	8297366
26 Susan Taylor 12" to 18" Grab Soil	8297367
26 Susan Taylor 18" to 24" Grab Soil	8297368
10 Scarey Ln 0" to 6" Grab Soil	8297369
10 Scarey Ln 6" to 12" Grab Soil	8297370
10 Scarey Ln 12" to 18" Grab Soil	8297371
10 Scarey Ln 18" to 24" Grab Soil	8297372
26 Scarey Ln 0" to 6" Grab Soil	8297373
26 Scarey Ln 6" to 12" Grab Soil	8297374
8 Polygraphic Ln 0" to 6" Grab Soil	8297375

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642988

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8297358, 8297359, 8297360

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

Batch #: 16083003 (Sample number(s): 8297358-8297360)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084007 (Sample number(s): 8297354-8297357, 8297361-8297363, 8297365-8297375 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16084949631A (Sample number(s): 8297355-8297357 UNSPK: P294196 BKG: P294196)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16084949631B (Sample number(s): 8297354, 8297361-8297362, 8297364, 8297366-8297372 UNSPK: 8297361 BKG: 8297361)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16083820002A (Sample number(s): 8297354-8297357 BKG: 8297355)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

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Analysis Report

Sample Description: 10 Scarey Ln 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297369
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:55 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0713 SDG#: SGP07-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	3.8		0.26	0.51	1
14027	Perfluorododecanoic acid	307-55-1	1.9		0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.77	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.60		0.26	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.98	J	0.90	2.0	1
14027	Perfluorooctanoic acid	335-67-1	4.1		0.38	0.77	1
14027	Perfluorotetradecanoic acid	376-06-7	0.79	J	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.84	J	0.77	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	2.8		0.38	0.77	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	22,600		1,080	3,250	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 09:08	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 22:15	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

Sample Description: 10 Scarey Ln 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297370
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 11:01 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0714 SDG#: SGP07-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.68		0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.50	J	0.46	0.91	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.37	J	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.2	J	0.80	1.8	1
14027	Perfluorooctanoic acid	335-67-1	1.4		0.34	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	0.34	U	0.34	0.91	1
14027	Perfluorotridecanoic acid	72629-94-8	0.69	U	0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.41	J	0.34	0.69	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,340		235	706	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	12.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 09:22	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 21:09	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: 10 Scarey Ln 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297371
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 11:14 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0715 SDG#: SGP07-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.55	U	0.55	1.8	1
14027	Perfluorodecanoic acid	335-76-2	1.1		0.22	0.44	1
14027	Perfluorododecanoic acid	307-55-1	0.52	J	0.44	0.88	1
14027	Perfluoroheptanoic acid	375-85-9	0.33	U	0.33	0.66	1
14027	Perfluorohexanesulfonate	355-46-4	0.55	U	0.55	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.44	1
14027	Perfluorononanoic acid	375-95-1	0.38	J	0.22	0.44	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.1	J	0.77	1.8	1
14027	Perfluorooctanoic acid	335-67-1	2.3		0.33	0.66	1
14027	Perfluorotetradecanoic acid	376-06-7	0.33	U	0.33	0.88	1
14027	Perfluorotridecanoic acid	72629-94-8	0.66	U	0.66	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.51	J	0.33	0.66	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,410		641	1,920	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	8.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 09:36	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 22:34	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: 10 Scarey Ln 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297372
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 11:25 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0716 SDG#: SGP07-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.59		0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.56		0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.85	U	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	3.6		0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	0.73	U	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	9,150		244	731	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 09:50	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 21:33	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

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/g		ng/g	ng/g
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8297358-8297360			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16084949631A	Sample number(s): 8297355-8297357			
TOC	100	U	100	300
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372			
TOC	100	U	100	300
Batch number: 16084949632A	Sample number(s): 8297373-8297375			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375								
Perfluorobutanesulfonate	20	17.26			86		70-130		
Perfluorodecanoic acid	20	19.11			96		70-130		
Perfluorododecanoic acid	20	18.17			91		70-130		
Perfluoroheptanoic acid	20	18.61			93		70-130		
Perfluorohexanesulfonate	20	14.91			75		70-130		
Perfluorohexanoic acid	20	16.77			84		70-130		
Perfluorononanoic acid	20	17.99			90		70-130		
Perfluoro-octanesulfonate	20	20.89			104		70-130		
Perfluorooctanoic acid	20	16.59			83		70-130		
Perfluorotetradecanoic acid	20	19.73			99		70-130		
Perfluorotridecanoic acid	20	15.69			78		70-130		
Perfluoroundecanoic acid	20	17.08			85		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8297358-8297360								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375								
TOC	5430	4448.16			82		47-143		
	%	%	%	%					
Batch number: 16083820002A	Sample number(s): 8297354-8297357								
Moisture	89.5	89.47			100		99-101		
Batch number: 16083820002B	Sample number(s): 8297361-8297375								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375 UNSPK: 8297361									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	18.36	84	92	70-130	9	30
Perfluorodecanoic acid	0.468	20	20.97	20	19.73	103	96	70-130	6	30
Perfluorododecanoic acid	0.40 U	20	18.68	20	18.77	93	94	70-130	0	30
Perfluoroheptanoic acid	0.30 U	20	19.82	20	20.51	99	103	70-130	3	30
Perfluorohexanesulfonate	0.50 U	20	24.58	20	20.13	123	101	70-130	20	30
Perfluorohexanoic acid	0.20 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorononanoic acid	0.20 U	20	17.45	20	18.3	87	91	70-130	5	30
Perfluoro-octanesulfonate	0.70 U	20	25.38	20	14.58	127	73	70-130	54*	30
Perfluorooctanoic acid	0.511	20	17.68	20	19.66	86	96	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	20.6	20	16.83	103	84	70-130	20	30
Perfluorotridecanoic acid	0.60 U	20	16.16	20	14.25	81	71	70-130	13	30
Perfluoroundecanoic acid	0.312	20	18.17	20	17.26	89	85	70-130	5	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357 UNSPK: P294196									
TOC	5817.55	14790	19743.46			94		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 UNSPK: 8297361									
TOC	5512	10007	12605.07			71		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375 UNSPK: P297411									
TOC	14599.68	13593	24218.4			71		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16084949631A	Sample number(s): 8297355-8297357 BKG: P294196			
TOC	5817.55	3166.37	59*	7
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 BKG: 8297361			
TOC	5512	6002.81	9*	7
Batch number: 16084949632A	Sample number(s): 8297373-8297375 BKG: P297411			
TOC	14599.68	15419.66	5	7
	%	%		
Batch number: 16083820002A	Sample number(s): 8297354-8297357 BKG: 8297355			
Moisture	17.48	16.51	6*	5
Batch number: 16083820002B	Sample number(s): 8297361-8297375 BKG: 8297361, P297361			
Moisture	19.48	18.8	4	5
Moisture	19.48	18.8	4	5
Moisture Duplicate	19.48	18.8	4	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 3719 Group # 1642988 Sample # 8297354-75

COC # 493463

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: UT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Surface ☐	Potable ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
													Preservation Codes				0							
Asa Way Vacant Lot 0" to 6"	3/21/16	0907	X			X							2	X	X	X								
Asa Way Vacant Lot 6" to 12"	3/21/16	0913	X			X							2	X	X	X								
Asa Way Vacant Lot 12" to 18"	3/21/16	0925	X			X							2	X	X	X								
Asa Way Vacant Lot 18" to 24"	3/21/16	0931	X			X							2	X	X	X								
LC ~~Asa Way Vacant Lot~~																								
Auger Rinse # 4	3/21/16	0938	X					X					2				X							Lab DI Water
Bowl Rinse # 4	3/21/16	0935	X					X					2				X							Lab DI Water
Transport Blank 032116	3/16/16	—	X					X				LC	1				X							Lab Supplied
26 Susan Taylor 0" to 6"	3/21/16	1005	X			X							4	X	X	X								MS/MSD here
26 Susan Taylor Duplicate	3/21/16	1010	X			X							1	X										

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/21/16	1655			
			Kristen Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____

Temperature upon receipt 4.5 / 5.4 °C

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Remarks

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1642988 Sample # 8297354-75

COC # 493361

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
26 Susan Taylor 6" to 12"	3/21/16	1013	X			X						2	X	X	X	
26 Susan Taylor 12" to 18"	3/21/16	1020	X			X						2	X	X	X	
26 Susan Taylor 18" to 24"	3/21/16	1026	X			X						2	X	X	X	
10 Scarey Ln 0" to 6"	3/21/16	1055	X			X						2	X	X	X	
10 Scarey Ln 6" to 12"	3/21/16	1101	X			X						2	X	X	X	
10 Scarey Ln 12" to 18"	3/21/16	1114	X			X						2	X	X	X	
10 Scarey Ln 18" to 24"	3/21/16	1125	X			X						2	X	X	X	
26 Scarey Ln WH 0" to 6"	3/21/16	1231	X			X						2	X	X	X	
26 Scarey Ln WH 6" to 12"	3/21/16	1240	X			X						2	X	X	X	
8 Polygraphic Ln 0" to 6"	3/21/16	1333	X			X						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/21/16	1655			
			Krista Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS FedEx X Other

Temperature upon receipt 4.5 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140176

Group Number(s): 1642988

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/22/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:32 on 03/22/2016

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	DT146	5.1	DT	Wet	Y	Bagged	N
2	DT146	4.8	DT	Wet	Y	Bagged	N

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Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/19/2016
Group Number: 1642373
SDG: SGP05
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
6 Royal St 0" to 6" Grab Soil	8294109
6 Royal St 6" to 12" Grab Soil	8294110
6 Royal St 12" to 18" Grab Soil	8294111
6 Royal St 18" to 24" Grab Soil	8294112
22 Asa Way 0" to 6" Grab Soil	8294113
22 Asa Way 6" to 12" Grab Soil	8294114
5 Scarey Lane 0" to 6" Grab Soil	8294115
5 Scarey Lane 6" to 12" Grab Soil	8294116
5 Scarey Lane 12" to 18" Grab Soil	8294117
5 Scarey Lane 18" to 24" Grab Soil	8294118
Auger Rinse #2 Grab Blank Water	8294119
Transport Blank Water	8294120
32 Scarey Lane 0" to 6" Grab Soil	8294121
32 Scarey Lane 6" to 12" Grab Soil	8294122
32 Scarey Lane 12" to 18" Grab Soil	8294123
32 Scarey Lane 18" to 24" Grab Soil	8294124
15 Scarey Lane 0" to 6" Grab Soil	8294125
15 Scarey Lane 0" to 6" MS Grab Soil	8294126
15 Scarey Lane 0" to 6" MSD Grab Soil	8294127
15 Scarey Lane 0" to 6" Dupl Grab Soil	8294128
15 Scarey Lane 6" to 12" Grab Soil	8294129
15 Scarey Lane Duplicate Grab Soil	8294130
765 Murphy Rd 0" to 6" Grab Soil	8294131
765 Murphy Rd 6" to 12" Grab Soil	8294132
765 Murphy Rd 12" to 18" Grab Soil	8294133
765 Murphy Rd 18" to 24" Grab Soil	8294134
Bowl Rinse #2 Grab Blank Water	8294135

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642373

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8294119, 8294120, 8294135

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

Batch #: 16083003 (Sample number(s): 8294119-8294120, 8294135)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16083007 (Sample number(s): 8294129-8294134 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16081049531A (Sample number(s): 8294109-8294118 UNSPK: 8294109 BKG: 8294109)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16081049531B (Sample number(s): 8294121-8294126, 8294128-8294129, 8294131-8294134 UNSPK: 8294125 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16081820004B (Sample number(s): 8294122-8294133 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

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Analysis Report

Sample Description: 15 Scarey Lane 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294125
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 14:45 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0517 SDG#: SGP05-17BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.65	U	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	2.0		0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	1.1		0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	0.65	U	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.38	J	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.44	J	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.91	U	0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	1.5		0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.78	U	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	1.3		0.39	0.78	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	22,300		810	2,430	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	23.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/27/2016 21:30	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 00:49	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 15 Scarey Lane 0" to 6" MS Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294126
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 14:45 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0517 SDG#: SGP05-17MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	22	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	30	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	28	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	30	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	26	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	26	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	28	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	19	0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	27	0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	24	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	26	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	25	0.39	0.78	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	117,000	2,640	7,910	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	23.1	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/27/2016 21:44	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 01:01	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 15 Scarey Lane 0" to 6" MSD Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294127
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 14:45 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0517 SDG#: SGP05-17MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	22	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	29	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	29	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	26	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	24	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	24	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	28	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	20	0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	26	0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	26	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	25	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	27	0.39	0.78	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	23.1	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/27/2016 21:58	Jason W Knight	1
00118	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 15 Scarey Lane 0" to 6" Dupl Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294128
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 14:45 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0517 SDG#: SGP05-17DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 5310 B modified-2000**		mg/kg	mg/kg	mg/kg	
02079	TOC	n.a.	24,400	730	2,190	1
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00118	Moisture	n.a.	23.1	0.50	0.50	1
00121	Moisture Duplicate	n.a.	19.9	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 01:28	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 15 Scarey Lane 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294129
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 15:00 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0518 SDG#: SGP05-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	1.2		0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.55	J	0.46	0.92	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.30	J	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.44	J	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.80	U	0.80	1.8	1
14027	Perfluorooctanoic acid	335-67-1	1.2		0.34	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	0.34	U	0.34	0.92	1
14027	Perfluorotridecanoic acid	72629-94-8	0.69	U	0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.52	J	0.34	0.69	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,220		283	849	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	12.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083007	03/26/2016 21:17	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 01:37	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: 15 Scarey Lane Duplicate Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294130
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 14:50 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0519 SDG#: SGP05-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	1.2		0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.62	J	0.46	0.92	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.29	J	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.80	U	0.80	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.99		0.34	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	0.34	J	0.34	0.92	1
14027	Perfluorotridecanoic acid	72629-94-8	0.69	U	0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	J	0.34	0.69	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	12.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083007	03/26/2016 21:59	Jason W Knight	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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/g		ng/g	ng/g
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16083007	Sample number(s): 8294129-8294134			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16081049531A	Sample number(s): 8294109-8294118			
TOC	100	U	100	300
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127								
Perfluorobutanesulfonate	20	19.13			96		70-130		
Perfluorodecanoic acid	20	20.15			101		70-130		
Perfluorododecanoic acid	20	21.22			106		70-130		
Perfluoroheptanoic acid	20	23.61			118		70-130		
Perfluorohexanesulfonate	20	16.81			84		70-130		
Perfluorohexanoic acid	20	18.65			93		70-130		
Perfluorononanoic acid	20	21.45			107		70-130		
Perfluoro-octanesulfonate	20	19.23			96		70-130		
Perfluorooctanoic acid	20	18.42			92		70-130		
Perfluorotetradecanoic acid	20	17.58			88		70-130		
Perfluorotridecanoic acid	20	19.08			95		70-130		
Perfluoroundecanoic acid	20	21.06			105		70-130		
Batch number: 16083007	Sample number(s): 8294129-8294134								
Perfluorobutanesulfonate	20	16.31			82		70-130		
Perfluorodecanoic acid	20	20.04			100		70-130		
Perfluorododecanoic acid	20	19.69			98		70-130		
Perfluoroheptanoic acid	20	23.65			118		70-130		
Perfluorohexanesulfonate	20	21.63			108		70-130		
Perfluorohexanoic acid	20	20.64			103		70-130		
Perfluorononanoic acid	20	17.96			90		70-130		
Perfluoro-octanesulfonate	20	19.76			99		70-130		
Perfluorooctanoic acid	20	19.43			97		70-130		
Perfluorotetradecanoic acid	20	20.15			101		70-130		
Perfluorotridecanoic acid	20	20.23			101		70-130		
Perfluoroundecanoic acid	20	20.17			101		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118								
TOC	5430	5548.1			102		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134								
TOC	5430	5548.1			102		47-143		
	%	%	%	%					
Batch number: 16081820003A	Sample number(s): 8294134								
Moisture	89.5	89.47			100		99-101		
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121								
Moisture	89.5	89.53			100		99-101		
Batch number: 16081820004B	Sample number(s): 8294122-8294133								
Moisture	89.5	89.53			100		99-101		
Moisture	89.5	89.53			100		99-101		
Moisture Duplicate	89.5	89.53			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127 UNSPK: 8294125									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	17.21	84	86	70-130	3	30
Perfluorodecanoic acid	1.51	20	22.99	20	22.62	107	106	70-130	2	30
Perfluorododecanoic acid	0.826	20	21.78	20	22.23	105	107	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	23.26	20	20.21	116	101	70-130	14	30
Perfluorohexanesulfonate	0.50 U	20	19.99	20	18.07	100	90	70-130	10	30
Perfluorohexanoic acid	0.292	20	19.68	20	18.57	97	91	70-130	6	30
Perfluorononanoic acid	0.339	20	21.68	20	21.51	107	106	70-130	1	30
Perfluoro-octanesulfonate	0.70 U	20	14.5	20	15.09	72	75	70-130	4	30
Perfluorooctanoic acid	1.13	20	20.62	20	20.3	97	96	70-130	2	30
Perfluorotetradecanoic acid	0.30 U	20	18.21	20	20.02	91	100	70-130	9	30
Perfluorotridecanoic acid	0.60 U	20	20.28	20	19.02	101	95	70-130	6	30
Perfluoroundecanoic acid	1.03	20	19.61	20	21	93	100	70-130	7	30
Batch number: 16083007	Sample number(s): 8294129-8294134 UNSPK: 8294129									
Perfluorobutanesulfonate	0.50 U	20	20.49	20	15.85	102	79	70-130	26	30
Perfluorodecanoic acid	1.06	20	25.19	20	24.46	121	117	70-130	3	30
Perfluorododecanoic acid	0.478	20	21.26	20	24.16	104	118	70-130	13	30
Perfluoroheptanoic acid	0.30 U	20	23.28	20	25.27	116	126	70-130	8	30
Perfluorohexanesulfonate	0.50 U	20	17.34	20	12.17	87	61*	70-130	35*	30
Perfluorohexanoic acid	0.264	20	21.43	20	20.18	106	100	70-130	6	30
Perfluorononanoic acid	0.388	20	21.82	20	20.99	107	103	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	15.84	20	24.76	79	124	70-130	44*	30
Perfluorooctanoic acid	1.06	20	23.61	20	21.75	113	103	70-130	8	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotetradecanoic acid	0.30 U	20	20.41	20	24.03	102	120	70-130	16	30
Perfluorotridecanoic acid	0.60 U	20	17.55	20	22.39	88	112	70-130	24	30
Perfluoroundecanoic acid	0.457	20	21.24	20	22.78	104	112	70-130	7	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118 UNSPK: 8294109									
TOC	7485.57	41494	54951.59			114		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 UNSPK: 8294125									
TOC	17171.34	60852	89858.01			119		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16081049531A	Sample number(s): 8294109-8294118 BKG: 8294109			
TOC	7485.57	8675.88	15*	7
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 BKG: 8294125			
TOC	17171.34	18766.82	9*	7
	%	%		
Batch number: 16081820003A	Sample number(s): 8294134 BKG: P293163			
Moisture	17.64	17.91	2	5
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121 BKG: 8294121			
Moisture	21.05	20.45	3	5
Batch number: 16081820004B	Sample number(s): 8294122-8294133 BKG: 8294125, P294125			
Moisture	23.09	19.86	15*	5
Moisture	23.09	19.86	15*	5
Moisture Duplicate	23.09	19.86	15*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493356

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground Water	Potable	Surface	NPDES	Other:	Total # of Containers	EPA 537	Moisture	TOC	Remarks
6 Royal St 0" to 6"	3/17/16	0946	✓			✓						3	X	X	X	
6 Royal St 6" to 12"	3/17/16	0952	✓			✓						3	X	X	X	
6 Royal St 12" to 18"	3/17/16	1001	✓			✓						3	X	X	X	
6 Royal St 18" to 24"	3/17/16	1015	✓			✓						3	X	X	X	
22 Asa Way 0" to 6"	3/17/16	1050	✓			✓						2	X	X	X	
22 Asa Way 6" to 12"	3/17/16	1100	✓			✓						2	X	X	X	
LC ~~22 Asa Way 12" to 18"~~			✓			✓										
LC ~~22 Asa Way 18" to 24"~~			✓			✓										
5 Scarey Lane 0" to 6"	3/17/16	1148	✓			✓						2	X	X	X	
5 Scarey Lane 6" to 12"	3/17/16	1200	✓			✓						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1647373 Sample # 8294109-35

COC # 493358

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Potable ☐	Surface ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537						Remarks
																O							
5 Scarey Lane 12" to 18"	3/17/16	1208	X			X							2	X	X	X							
5 Scarey Lane 18" to 24"	3/17/16	1217	X			X							2	X	X	X							
Auger Rinse #2	3/17/16	1222	X					X					2	~~X~~		~~X~~ X							Lab DI Water
Transport Blank	3/17/16	—	X					X					1	~~X~~		~~X~~ X							Lab provided
32 Scarey Lane 0" to 6"	3/17/16	1328	X			X							2	X	X	X							
32 Scarey Lane 6" to 12"	3/17/16	1338	X			X							2	X	X	X							
32 Scarey Lane 12" to 18"	3/17/16	1343	X			X							2	X	X	X							
32 Scarey Lane 18" to 24"	3/17/16	1352	X			X							2	X	X	X							
15 Scarey Lane 0" to 6"	3/17/16	1445	X			X							4	X	X	X							MS/MSD here
15 Scarey Lane 6" to 12"	3/17/16	1500	X			X							2	X	X	X							

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/18/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493359

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Soil ☒	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537							Remarks
																	9							
15 Searey Lane Duplicate	3/17/16	1450	X							X			1	X										
765 Murphy Rd 0" to 6"	3/17/16	1550	X							X			2	X	X	X								
765 Murphy Rd 6" to 12"	3/17/16	1600	X							X			2	X	X	X								
765 Murphy Rd 12" to 18"	3/17/16	1612	X							X			2	X	X	X								
765 Murphy Rd 18" to 24"	3/17/16	1623	X							X			2	X	X	X								
Bowl Rinse #2	3/17/16	1840	X					X					2				X							Lab DI Water

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	07:11
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140007

Group Number(s): 1642373

Client: CT Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/19/2016 9:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 250mL Na2S2O3 Preserved Poly

Unpacked by Patrick Engle (3472) at 10:46 on 03/19/2016

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	DT121	4.8	DT	Wet	Y	Bagged	N
2	DT121	4.5	DT	Wet	Y	Bagged	N
3	DT121	3.1	DT	Wet	Y	Bagged	N
4	DT121	4.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/22/2016
Group Number: 1642988
SDG: SGP07
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Asa Way Vac Lot 0" to 6" Grab Soil	8297354
Asa Way Vac Lot 6" to 12" Grab Soil	8297355
Asa Way Vac Lot 12" to 18" Grab Soil	8297356
Asa Way Vac Lot 18" to 24" Grab Soil	8297357
Auger Rinse #4 Grab Blank Water	8297358
Bowl Rinse #4 Grab Blank Water	8297359
Transport Blank 032116 Water	8297360
26 Susan Taylor 0" to 6" Grab Soil	8297361
26 Susan Taylor 0" to 6" MS Grab Soil	8297362
26 Susan Taylor 0" to 6" MSD Grab Soil	8297363
26 Susan Taylor 0" to 6" Dupl Grab Soil	8297364
26 Susan Taylor Duplicate Grab Soil	8297365
26 Susan Taylor 6" to 12" Grab Soil	8297366
26 Susan Taylor 12" to 18" Grab Soil	8297367
26 Susan Taylor 18" to 24" Grab Soil	8297368
10 Scarey Ln 0" to 6" Grab Soil	8297369
10 Scarey Ln 6" to 12" Grab Soil	8297370
10 Scarey Ln 12" to 18" Grab Soil	8297371
10 Scarey Ln 18" to 24" Grab Soil	8297372
26 Scarey Ln 0" to 6" Grab Soil	8297373
26 Scarey Ln 6" to 12" Grab Soil	8297374
8 Polygraphic Ln 0" to 6" Grab Soil	8297375

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642988

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8297358, 8297359, 8297360

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

Batch #: 16083003 (Sample number(s): 8297358-8297360)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084007 (Sample number(s): 8297354-8297357, 8297361-8297363, 8297365-8297375 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16084949631A (Sample number(s): 8297355-8297357 UNSPK: P294196 BKG: P294196)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16084949631B (Sample number(s): 8297354, 8297361-8297362, 8297364, 8297366-8297372 UNSPK: 8297361 BKG: 8297361)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16083820002A (Sample number(s): 8297354-8297357 BKG: 8297355)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

Sample Description: 26 Scarey Ln 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297373
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 12:31 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0717 SDG#: SGP07-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.30	J	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	1.9		0.46	0.92	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	J	0.80	1.8	1
14027	Perfluorooctanoic acid	335-67-1	1.1		0.34	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	1.9		0.34	0.92	1
14027	Perfluorotridecanoic acid	72629-94-8	1.4		0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	1.2		0.34	0.69	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	11,500		467	1,400	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	12.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 10:05	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 00:28	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 26 Scarey Ln 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297374
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 12:40 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0718 SDG#: SGP07-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.54	U	0.54	1.7	1
14027	Perfluorodecanoic acid	335-76-2	0.26	J	0.21	0.43	1
14027	Perfluorododecanoic acid	307-55-1	1.1		0.43	0.86	1
14027	Perfluoroheptanoic acid	375-85-9	0.32	U	0.32	0.64	1
14027	Perfluorohexanesulfonate	355-46-4	0.54	U	0.54	1.7	1
14027	Perfluorohexanoic acid	307-24-4	0.21	U	0.21	0.43	1
14027	Perfluorononanoic acid	375-95-1	0.21	U	0.21	0.43	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.75	U	0.75	1.7	1
14027	Perfluorooctanoic acid	335-67-1	0.33	J	0.32	0.64	1
14027	Perfluorotetradecanoic acid	376-06-7	1.1		0.32	0.86	1
14027	Perfluorotridecanoic acid	72629-94-8	0.64	U	0.64	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.78		0.32	0.64	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,320		487	1,460	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	6.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 10:19	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949632A	03/25/2016 00:42	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

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/g		ng/g	ng/g
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8297358-8297360			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16084949631A	Sample number(s): 8297355-8297357			
TOC	100	U	100	300
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372			
TOC	100	U	100	300
Batch number: 16084949632A	Sample number(s): 8297373-8297375			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375								
Perfluorobutanesulfonate	20	17.26			86		70-130		
Perfluorodecanoic acid	20	19.11			96		70-130		
Perfluorododecanoic acid	20	18.17			91		70-130		
Perfluoroheptanoic acid	20	18.61			93		70-130		
Perfluorohexanesulfonate	20	14.91			75		70-130		
Perfluorohexanoic acid	20	16.77			84		70-130		
Perfluorononanoic acid	20	17.99			90		70-130		
Perfluoro-octanesulfonate	20	20.89			104		70-130		
Perfluorooctanoic acid	20	16.59			83		70-130		
Perfluorotetradecanoic acid	20	19.73			99		70-130		
Perfluorotridecanoic acid	20	15.69			78		70-130		
Perfluoroundecanoic acid	20	17.08			85		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8297358-8297360								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375								
TOC	5430	4448.16			82		47-143		
	%	%	%	%					
Batch number: 16083820002A	Sample number(s): 8297354-8297357								
Moisture	89.5	89.47			100		99-101		
Batch number: 16083820002B	Sample number(s): 8297361-8297375								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375 UNSPK: 8297361									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	18.36	84	92	70-130	9	30
Perfluorodecanoic acid	0.468	20	20.97	20	19.73	103	96	70-130	6	30
Perfluorododecanoic acid	0.40 U	20	18.68	20	18.77	93	94	70-130	0	30
Perfluoroheptanoic acid	0.30 U	20	19.82	20	20.51	99	103	70-130	3	30
Perfluorohexanesulfonate	0.50 U	20	24.58	20	20.13	123	101	70-130	20	30
Perfluorohexanoic acid	0.20 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorononanoic acid	0.20 U	20	17.45	20	18.3	87	91	70-130	5	30
Perfluoro-octanesulfonate	0.70 U	20	25.38	20	14.58	127	73	70-130	54*	30
Perfluorooctanoic acid	0.511	20	17.68	20	19.66	86	96	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	20.6	20	16.83	103	84	70-130	20	30
Perfluorotridecanoic acid	0.60 U	20	16.16	20	14.25	81	71	70-130	13	30
Perfluoroundecanoic acid	0.312	20	18.17	20	17.26	89	85	70-130	5	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357 UNSPK: P294196									
TOC	5817.55	14790	19743.46			94		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 UNSPK: 8297361									
TOC	5512	10007	12605.07			71		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375 UNSPK: P297411									
TOC	14599.68	13593	24218.4			71		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16084949631A	Sample number(s): 8297355-8297357 BKG: P294196			
TOC	5817.55	3166.37	59*	7
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 BKG: 8297361			
TOC	5512	6002.81	9*	7
Batch number: 16084949632A	Sample number(s): 8297373-8297375 BKG: P297411			
TOC	14599.68	15419.66	5	7
	%	%		
Batch number: 16083820002A	Sample number(s): 8297354-8297357 BKG: 8297355			
Moisture	17.48	16.51	6*	5
Batch number: 16083820002B	Sample number(s): 8297361-8297375 BKG: 8297361, P297361			
Moisture	19.48	18.8	4	5
Moisture	19.48	18.8	4	5
Moisture Duplicate	19.48	18.8	4	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 3719 Group # 1642988 Sample # 8297354-75

COC # 493463

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: UT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Surface ☐	Potable ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
													Preservation Codes				0							
Asa Way Vacant Lot 0" to 6"	3/21/16	0907	X			X							2	X	X	X								
Asa Way Vacant Lot 6" to 12"	3/21/16	0913	X			X							2	X	X	X								
Asa Way Vacant Lot 12" to 18"	3/21/16	0925	X			X							2	X	X	X								
Asa Way Vacant Lot 18" to 24"	3/21/16	0931	X			X							2	X	X	X								
LC ~~Asa Way Vacant Lot~~																								
Auger Rinse # 4	3/21/16	0938	X					X					2				X							Lab DI Water
Bowl Rinse # 4	3/21/16	0935	X					X					2				X							Lab DI Water
Transport Blank 032116	3/16/16	—	X					X				LC	1				X							Lab Supplied
26 Susan Taylor 0" to 6"	3/21/16	1005	X			X							4	X	X	X								MS/MSD here
26 Susan Taylor Duplicate	3/21/16	1010	X			X							1	X										

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/21/16	1655			
			Kristen Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____

Temperature upon receipt 4.5 / 5.4 °C

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Remarks

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1642988 Sample # 8297354-75

COC # 493361

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
26 Susan Taylor 6" to 12"	3/21/16	1013	X			X						2	X	X	X	
26 Susan Taylor 12" to 18"	3/21/16	1020	X			X						2	X	X	X	
26 Susan Taylor 18" to 24"	3/21/16	1026	X			X						2	X	X	X	
10 Scarey Ln 0" to 6"	3/21/16	1055	X			X						2	X	X	X	
10 Scarey Ln 6" to 12"	3/21/16	1101	X			X						2	X	X	X	
10 Scarey Ln 12" to 18"	3/21/16	1114	X			X						2	X	X	X	
10 Scarey Ln 18" to 24"	3/21/16	1125	X			X						2	X	X	X	
26 Scarey Ln WH 0" to 6"	3/21/16	1231	X			X						2	X	X	X	
26 Scarey Ln WH 6" to 12"	3/21/16	1240	X			X						2	X	X	X	
8 Polygraphic Ln 0" to 6"	3/21/16	1333	X			X						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/21/16	1655			
			Krista Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS FedEx X Other

Temperature upon receipt 4.5 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140176

Group Number(s): 1642988

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/22/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:32 on 03/22/2016

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	DT146	5.1	DT	Wet	Y	Bagged	N
2	DT146	4.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/19/2016
Group Number: 1642373
SDG: SGP05
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
6 Royal St 0" to 6" Grab Soil	8294109
6 Royal St 6" to 12" Grab Soil	8294110
6 Royal St 12" to 18" Grab Soil	8294111
6 Royal St 18" to 24" Grab Soil	8294112
22 Asa Way 0" to 6" Grab Soil	8294113
22 Asa Way 6" to 12" Grab Soil	8294114
5 Scarey Lane 0" to 6" Grab Soil	8294115
5 Scarey Lane 6" to 12" Grab Soil	8294116
5 Scarey Lane 12" to 18" Grab Soil	8294117
5 Scarey Lane 18" to 24" Grab Soil	8294118
Auger Rinse #2 Grab Blank Water	8294119
Transport Blank Water	8294120
32 Scarey Lane 0" to 6" Grab Soil	8294121
32 Scarey Lane 6" to 12" Grab Soil	8294122
32 Scarey Lane 12" to 18" Grab Soil	8294123
32 Scarey Lane 18" to 24" Grab Soil	8294124
15 Scarey Lane 0" to 6" Grab Soil	8294125
15 Scarey Lane 0" to 6" MS Grab Soil	8294126
15 Scarey Lane 0" to 6" MSD Grab Soil	8294127
15 Scarey Lane 0" to 6" Dupl Grab Soil	8294128
15 Scarey Lane 6" to 12" Grab Soil	8294129
15 Scarey Lane Duplicate Grab Soil	8294130
765 Murphy Rd 0" to 6" Grab Soil	8294131
765 Murphy Rd 6" to 12" Grab Soil	8294132
765 Murphy Rd 12" to 18" Grab Soil	8294133
765 Murphy Rd 18" to 24" Grab Soil	8294134
Bowl Rinse #2 Grab Blank Water	8294135

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642373

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8294119, 8294120, 8294135

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

Batch #: 16083003 (Sample number(s): 8294119-8294120, 8294135)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16083007 (Sample number(s): 8294129-8294134 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16081049531A (Sample number(s): 8294109-8294118 UNSPK: 8294109 BKG: 8294109)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16081049531B (Sample number(s): 8294121-8294126, 8294128-8294129, 8294131-8294134 UNSPK: 8294125 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16081820004B (Sample number(s): 8294122-8294133 BKG: 8294125)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture, Moisture, Moisture Duplicate

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Analysis Report

Sample Description: 32 Scarey Lane 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294121
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 13:28 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0513 SDG#: SGP05-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.69		0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.53		0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.3		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.43	J	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	19,800		900	2,700	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 13:27	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 00:07	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004A	03/21/2016 22:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 32 Scarey Lane 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294122
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 13:38 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0514 SDG#: SGP05-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.55	U	0.55	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	J	0.22	0.44	1
14027	Perfluorododecanoic acid	307-55-1	0.44	U	0.44	0.89	1
14027	Perfluoroheptanoic acid	375-85-9	0.33	U	0.33	0.66	1
14027	Perfluorohexanesulfonate	355-46-4	0.55	U	0.55	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.44	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.44	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.78	U	0.78	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.90		0.33	0.66	1
14027	Perfluorotetradecanoic acid	376-06-7	0.33	U	0.33	0.89	1
14027	Perfluorotridecanoic acid	72629-94-8	0.66	U	0.66	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.33	U	0.33	0.66	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,520		280	841	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	9.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 13:41	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 00:15	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

Sample Description: 32 Scarey Lane 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294123
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 13:43 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0515 SDG#: SGP05-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.54	U	0.54	1.7	1
14027	Perfluorodecanoic acid	335-76-2	0.22	U	0.22	0.43	1
14027	Perfluorododecanoic acid	307-55-1	0.43	U	0.43	0.87	1
14027	Perfluoroheptanoic acid	375-85-9	0.32	U	0.32	0.65	1
14027	Perfluorohexanesulfonate	355-46-4	0.54	U	0.54	1.7	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.43	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.43	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.5	J	0.76	1.7	1
14027	Perfluorooctanoic acid	335-67-1	0.35	J	0.32	0.65	1
14027	Perfluorotetradecanoic acid	376-06-7	0.32	U	0.32	0.87	1
14027	Perfluorotridecanoic acid	72629-94-8	0.65	U	0.65	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.32	U	0.32	0.65	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	1,430		143	429	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	7.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 13:56	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 00:27	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: 32 Scarey Lane 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294124
LL Group # 1642373
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/17/2016 13:52 by LC

Submitted: 03/19/2016 09:50
Reported: 03/29/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0516 SDG#: SGP05-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.70	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.82	U	0.82	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.85		0.35	0.70	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.70	U	0.70	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.70	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,950		248	745	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	14.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083006	03/28/2016 14:10	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16081049531B	03/22/2016 00:38	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820004B	03/21/2016 22:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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/g		ng/g	ng/g
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16083007	Sample number(s): 8294129-8294134			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16081049531A	Sample number(s): 8294109-8294118			
TOC	100	U	100	300
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127								
Perfluorobutanesulfonate	20	19.13			96		70-130		
Perfluorodecanoic acid	20	20.15			101		70-130		
Perfluorododecanoic acid	20	21.22			106		70-130		
Perfluoroheptanoic acid	20	23.61			118		70-130		
Perfluorohexanesulfonate	20	16.81			84		70-130		
Perfluorohexanoic acid	20	18.65			93		70-130		
Perfluorononanoic acid	20	21.45			107		70-130		
Perfluoro-octanesulfonate	20	19.23			96		70-130		
Perfluorooctanoic acid	20	18.42			92		70-130		
Perfluorotetradecanoic acid	20	17.58			88		70-130		
Perfluorotridecanoic acid	20	19.08			95		70-130		
Perfluoroundecanoic acid	20	21.06			105		70-130		
Batch number: 16083007	Sample number(s): 8294129-8294134								
Perfluorobutanesulfonate	20	16.31			82		70-130		
Perfluorodecanoic acid	20	20.04			100		70-130		
Perfluorododecanoic acid	20	19.69			98		70-130		
Perfluoroheptanoic acid	20	23.65			118		70-130		
Perfluorohexanesulfonate	20	21.63			108		70-130		
Perfluorohexanoic acid	20	20.64			103		70-130		
Perfluorononanoic acid	20	17.96			90		70-130		
Perfluoro-octanesulfonate	20	19.76			99		70-130		
Perfluorooctanoic acid	20	19.43			97		70-130		
Perfluorotetradecanoic acid	20	20.15			101		70-130		
Perfluorotridecanoic acid	20	20.23			101		70-130		
Perfluoroundecanoic acid	20	20.17			101		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8294119-8294120,8294135								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

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
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118								
TOC	5430	5548.1			102		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134								
TOC	5430	5548.1			102		47-143		
	%	%	%	%					
Batch number: 16081820003A	Sample number(s): 8294134								
Moisture	89.5	89.47			100		99-101		
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121								
Moisture	89.5	89.53			100		99-101		
Batch number: 16081820004B	Sample number(s): 8294122-8294133								
Moisture	89.5	89.53			100		99-101		
Moisture	89.5	89.53			100		99-101		
Moisture Duplicate	89.5	89.53			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16083006	Sample number(s): 8294109-8294118,8294121-8294127 UNSPK: 8294125									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	17.21	84	86	70-130	3	30
Perfluorodecanoic acid	1.51	20	22.99	20	22.62	107	106	70-130	2	30
Perfluorododecanoic acid	0.826	20	21.78	20	22.23	105	107	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	23.26	20	20.21	116	101	70-130	14	30
Perfluorohexanesulfonate	0.50 U	20	19.99	20	18.07	100	90	70-130	10	30
Perfluorohexanoic acid	0.292	20	19.68	20	18.57	97	91	70-130	6	30
Perfluorononanoic acid	0.339	20	21.68	20	21.51	107	106	70-130	1	30
Perfluoro-octanesulfonate	0.70 U	20	14.5	20	15.09	72	75	70-130	4	30
Perfluorooctanoic acid	1.13	20	20.62	20	20.3	97	96	70-130	2	30
Perfluorotetradecanoic acid	0.30 U	20	18.21	20	20.02	91	100	70-130	9	30
Perfluorotridecanoic acid	0.60 U	20	20.28	20	19.02	101	95	70-130	6	30
Perfluoroundecanoic acid	1.03	20	19.61	20	21	93	100	70-130	7	30
Batch number: 16083007	Sample number(s): 8294129-8294134 UNSPK: 8294129									
Perfluorobutanesulfonate	0.50 U	20	20.49	20	15.85	102	79	70-130	26	30
Perfluorodecanoic acid	1.06	20	25.19	20	24.46	121	117	70-130	3	30
Perfluorododecanoic acid	0.478	20	21.26	20	24.16	104	118	70-130	13	30
Perfluoroheptanoic acid	0.30 U	20	23.28	20	25.27	116	126	70-130	8	30
Perfluorohexanesulfonate	0.50 U	20	17.34	20	12.17	87	61*	70-130	35*	30
Perfluorohexanoic acid	0.264	20	21.43	20	20.18	106	100	70-130	6	30
Perfluorononanoic acid	0.388	20	21.82	20	20.99	107	103	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	15.84	20	24.76	79	124	70-130	44*	30
Perfluorooctanoic acid	1.06	20	23.61	20	21.75	113	103	70-130	8	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 17:54

Group Number: 1642373

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotetradecanoic acid	0.30 U	20	20.41	20	24.03	102	120	70-130	16	30
Perfluorotridecanoic acid	0.60 U	20	17.55	20	22.39	88	112	70-130	24	30
Perfluoroundecanoic acid	0.457	20	21.24	20	22.78	104	112	70-130	7	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16081049531A	Sample number(s): 8294109-8294118 UNSPK: 8294109									
TOC	7485.57	41494	54951.59			114		47-143		
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 UNSPK: 8294125									
TOC	17171.34	60852	89858.01			119		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16081049531A	Sample number(s): 8294109-8294118 BKG: 8294109			
TOC	7485.57	8675.88	15*	7
Batch number: 16081049531B	Sample number(s): 8294121-8294126,8294128-8294129,8294131-8294134 BKG: 8294125			
TOC	17171.34	18766.82	9*	7
	%	%		
Batch number: 16081820003A	Sample number(s): 8294134 BKG: P293163			
Moisture	17.64	17.91	2	5
Batch number: 16081820004A	Sample number(s): 8294109-8294118,8294121 BKG: 8294121			
Moisture	21.05	20.45	3	5
Batch number: 16081820004B	Sample number(s): 8294122-8294133 BKG: 8294125, P294125			
Moisture	23.09	19.86	15*	5
Moisture	23.09	19.86	15*	5
Moisture Duplicate	23.09	19.86	15*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493356

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground Water	Potable	Surface	NPDES	Other:	Total # of Containers	EPA 537	Moisture	TOC	Remarks
6 Royal St 0" to 6"	3/17/16	0946	✓			✓						3	X	X	X	
6 Royal St 6" to 12"	3/17/16	0952	✓			✓						3	X	X	X	
6 Royal St 12" to 18"	3/17/16	1001	✓			✓						3	X	X	X	
6 Royal St 18" to 24"	3/17/16	1015	✓			✓						3	X	X	X	
22 Asa Way 0" to 6"	3/17/16	1050	✓			✓						2	X	X	X	
22 Asa Way 6" to 12"	3/17/16	1100	✓			✓						2	X	X	X	
LC ~~22 Asa Way 12" to 18"~~			✓			✓										
LC ~~22 Asa Way 18" to 24"~~			✓			✓										
5 Scarey Lane 0" to 6"	3/17/16	1148	✓			✓						2	X	X	X	
5 Scarey Lane 6" to 12"	3/17/16	1200	✓			✓						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1647373 Sample # 8294109-35

COC # 493358

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Potable ☐	Surface ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537						Remarks
																O							
5 Scarey Lane 12" to 18"	3/17/16	1208	X			X							2	X	X	X							
5 Scarey Lane 18" to 24"	3/17/16	1217	X			X							2	X	X	X							
Auger Rinse #2	3/17/16	1222	X					X					2	~~X~~		~~X~~ X							Lab DI Water
Transport Blank	3/17/16	—	X					X					1	~~X~~		~~X~~ X							Lab provided
32 Scarey Lane 0" to 6"	3/17/16	1328	X			X							2	X	X	X							
32 Scarey Lane 6" to 12"	3/17/16	1338	X			X							2	X	X	X							
32 Scarey Lane 12" to 18"	3/17/16	1343	X			X							2	X	X	X							
32 Scarey Lane 18" to 24"	3/17/16	1352	X			X							2	X	X	X							
15 Scarey Lane 0" to 6"	3/17/16	1445	X			X							4	X	X	X							MS/MSD here
15 Scarey Lane 6" to 12"	3/17/16	1500	X			X							2	X	X	X							

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	0711
[signature]	03/18/16	07:14			
			[signature]	3/18/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1642373 Sample # 8294109-35

COC # 493359

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Soil ☒	Water	Other:	Total # of Containers	EPA 537	Moisture	TOC	EPA 537							Remarks
																	9							
15 Searey Lane Duplicate	3/17/16	1450	X							X			1	X										
765 Murphy Rd 0" to 6"	3/17/16	1550	X							X			2	X	X	X								
765 Murphy Rd 6" to 12"	3/17/16	1600	X							X			2	X	X	X								
765 Murphy Rd 12" to 18"	3/17/16	1612	X							X			2	X	X	X								
765 Murphy Rd 18" to 24"	3/17/16	1623	X							X			2	X	X	X								
Bowl Rinse #2	3/17/16	1840	X					X					2				X							Lab DI Water

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	03/18/16	07:11	[signature]	03/18/16	07:11
[signature]	03/18/16	07:14			
			[signature]	3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140007

Group Number(s): 1642373

Client: CT Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/19/2016 9:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 250mL Na2S2O3 Preserved Poly

Unpacked by Patrick Engle (3472) at 10:46 on 03/19/2016

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	DT121	4.8	DT	Wet	Y	Bagged	N
2	DT121	4.5	DT	Wet	Y	Bagged	N
3	DT121	3.1	DT	Wet	Y	Bagged	N
4	DT121	4.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 28, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/19/2016
Group Number: 1642382
SDG: SGP06
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Bennington College Garden 0" to 6" Grab Soil	8294171
Bennington College Garden 6" to 12" Grab Soil	8294172
Bennington College Garden 12" to 18" Grab Soil	8294173
Bennington College Garden 18" to 24" Grab Soil	8294174
Auger Rinse #3 Grab Blank Water	8294175
Bowl Rinse #3 Grab Blank Water	8294176
Transport Blank 031816 Blank Water	8294177
B. College Adj to Garden 0" to 6" Grab Soil	8294178
B. College Adj to Garden 6" to 12" Grab Soil	8294179
B. College Adj to Garden Duplicate Grab Soil	8294180
B. College Adj to Garden 12" to 18" Grab Soil	8294181
B. College Adj to Garden 12" to 18" MS Grab Soil	8294182
B. College Adj to Garden 12" to 18" MSD Grab Soil	8294183
B. College Adj to Garden 12" to 18" Dupl Grab Soil	8294184
B. College Adj to Garden 18" to 24" Grab Soil	8294185
B. College Adj to Soccer Field 0" to 6" Grab Soil	8294186
B. College Adj to Soccer Field 6" to 12" Grab Soil	8294187
B. College Adj to Soccer Field 12" to 18" Grab	8294188
B. College Adj to Soccer Field 18" to 24" Grab	8294189
Jennings Meadow Trail 0" to 6" Grab Soil	8294190
Jennings Meadow Trail 6" to 12" Grab Soil	8294191
Jennings Meadow Trail 12" to 18" Grab Soil	8294192
Jennings Meadow Trail 18" to 24" Grab Soil	8294193
9 School St SMPG 0" to 6" Grab Soil	8294194
9 School St SMPG 6" to 12" Grab Soil	8294195
9 School St SMPG 12" to 18" Grab Soil	8294196
9 School St SMPG 18" to 24" Grab Soil	8294197
9 School St LGPG 0" to 6" Grab Soil	8294198
9 School St LGPG 6" to 12" Grab Soil	8294199
9 School St LGPG 12" to 18" Grab Soil	8294200
9 School St LGPG 18" to 24" Grab Soil	8294201

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642382

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8294175, 8294176, 8294177

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

Batch #: 16083003 (Sample number(s): 8294175-8294177)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084002 (Sample number(s): 8294171-8294174, 8294178-8294183, 8294185-8294196 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

Batch #: 16084003 (Sample number(s): 8294197-8294201 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Sample #s: 8294198, 8294199, 8294200, 8294201

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

Batch #: 16083949631A (Sample number(s): 8294171-8294174, 8294178-8294179, 8294181-8294182, 8294184-8294187 UNSPK: 8294182 BKG: 8294182)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16083949631B (Sample number(s): 8294188-8294195 UNSPK: 8294188 BKG: 8294188)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16084949631A (Sample number(s): 8294196-8294201 UNSPK: 8294196 BKG: 8294196)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16081820005B (Sample number(s): 8294185-8294196 BKG: 8294189)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

Batch #: 16081820006B (Sample number(s): 8294197-8294201 BKG: P294812)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

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Analysis Report

Sample Description: Bennington College Garden 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294171
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 09:15 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-601 SDG#: SGP06-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	2.0	J	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.32	J	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.1		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	12,900		252	756	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 03:56	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 21:30	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: Bennington College Garden 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294172
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 09:24 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-602 SDG#: SGP06-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.95	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.65	J	0.36	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.95	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,660		246	739	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 04:10	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 21:43	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: Bennington College Garden 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294173
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 09:33 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-603 SDG#: SGP06-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.46	U	0.46	0.93	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.70	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.81	U	0.81	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.38	J	0.35	0.70	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.93	1
14027	Perfluorotridecanoic acid	72629-94-8	0.70	U	0.70	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.70	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,490		210	631	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	13.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 04:24	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 22:01	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: Bennington College Garden 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294174
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 09:44 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-604 SDG#: SGP06-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.67	J	0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,630		246	738	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 04:38	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631A	03/23/2016 22:10	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005A	03/21/2016 21:46	Scott W Freisher	1

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

Sample Description: 9 School St SMPG 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294194
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 13:55 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-621 SDG#: SGP06-21

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	1.5	U	1.5	4.8	1
14027	Perfluorodecanoic acid	335-76-2	0.60	U	0.60	1.2	1
14027	Perfluorododecanoic acid	307-55-1	1.2	U	1.2	2.4	1
14027	Perfluoroheptanoic acid	375-85-9	0.89	U	0.89	1.8	1
14027	Perfluorohexanesulfonate	355-46-4	1.5	U	1.5	4.8	1
14027	Perfluorohexanoic acid	307-24-4	0.60	U	0.60	1.2	1
14027	Perfluorononanoic acid	375-95-1	0.60	U	0.60	1.2	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.1	U	2.1	4.8	1
14027	Perfluorooctanoic acid	335-67-1	0.89	U	0.89	1.8	1
14027	Perfluorotetradecanoic acid	376-06-7	0.89	U	0.89	2.4	1
14027	Perfluorotridecanoic acid	72629-94-8	1.8	U	1.8	3.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.89	U	0.89	1.8	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	42,700		753	2,260	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	66.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 07:58	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631B	03/24/2016 01:58	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St SMPG 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294195
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 14:05 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-622 SDG#: SGP06-22

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.35	U	0.35	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	12,900		248	743	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 08:12	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16083949631B	03/24/2016 02:15	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

Sample Description: 9 School St SMPG 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294196
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 14:13 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-623 SDG#: SGP06-23

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.56	U	0.56	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.22	U	0.22	0.45	1
14027	Perfluorododecanoic acid	307-55-1	0.45	U	0.45	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.67	1
14027	Perfluorohexanesulfonate	355-46-4	0.56	U	0.56	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.3	J	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.34	U	0.34	0.67	1
14027	Perfluorotetradecanoic acid	376-06-7	0.34	U	0.34	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	0.67	U	0.67	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.34	U	0.34	0.67	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,540		229	688	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	11.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084002	03/27/2016 08:26	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 12:34	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16081820005B	03/21/2016 21:46	Scott W Freisher	1

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

Sample Description: 9 School St SMPG 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294197
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 14:22 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-624 SDG#: SGP06-24

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.53	U	0.53	1.7	1
14027	Perfluorodecanoic acid	335-76-2	0.21	U	0.21	0.43	1
14027	Perfluorododecanoic acid	307-55-1	0.43	U	0.43	0.85	1
14027	Perfluoroheptanoic acid	375-85-9	0.32	U	0.32	0.64	1
14027	Perfluorohexanesulfonate	355-46-4	0.53	U	0.53	1.7	1
14027	Perfluorohexanoic acid	307-24-4	0.21	U	0.21	0.43	1
14027	Perfluorononanoic acid	375-95-1	0.21	U	0.21	0.43	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.74	U	0.74	1.7	1
14027	Perfluorooctanoic acid	335-67-1	0.32	U	0.32	0.64	1
14027	Perfluorotetradecanoic acid	376-06-7	0.32	U	0.32	0.85	1
14027	Perfluorotridecanoic acid	72629-94-8	0.64	U	0.64	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.32	U	0.32	0.64	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	1,200		215	645	2.02
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	6.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084003	03/27/2016 11:46	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 13:00	Clinton M Wilson	2.02
00111	Moisture	SM 2540 G-1997	1	16081820006B	03/21/2016 23:05	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St LGPG 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294198
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 14:50 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-625 SDG#: SGP06-25

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.53	U	0.53	1.7	1
14027	Perfluorodecanoic acid	335-76-2	0.21	U	0.21	0.42	1
14027	Perfluorododecanoic acid	307-55-1	0.42	U	0.42	0.85	1
14027	Perfluoroheptanoic acid	375-85-9	0.32	U	0.32	0.64	1
14027	Perfluorohexanesulfonate	355-46-4	0.53	U	0.53	1.7	1
14027	Perfluorohexanoic acid	307-24-4	0.21	U	0.21	0.42	1
14027	Perfluorononanoic acid	375-95-1	0.21	U	0.21	0.42	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.74	U	0.74	1.7	1
14027	Perfluorooctanoic acid	335-67-1	0.32	U	0.32	0.64	1
14027	Perfluorotetradecanoic acid	376-06-7	0.32	U	0.32	0.85	1
14027	Perfluorotridecanoic acid	72629-94-8	0.64	U	0.64	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.32	U	0.32	0.64	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	405	J	201	604	1.9
	Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	5.7		0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084003	03/27/2016 12:28	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 13:08	Clinton M Wilson	1.9
00111	Moisture	SM 2540 G-1997	1	16081820006B	03/21/2016 23:05	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St LGPG 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294199
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 14:59 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-626 SDG#: SGP06-26

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.53	U	0.53	1.7	1
14027	Perfluorodecanoic acid	335-76-2	0.21	U	0.21	0.42	1
14027	Perfluorododecanoic acid	307-55-1	0.42	U	0.42	0.85	1
14027	Perfluoroheptanoic acid	375-85-9	0.32	U	0.32	0.64	1
14027	Perfluorohexanesulfonate	355-46-4	0.53	U	0.53	1.7	1
14027	Perfluorohexanoic acid	307-24-4	0.21	U	0.21	0.42	1
14027	Perfluorononanoic acid	375-95-1	0.21	U	0.21	0.42	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.74	U	0.74	1.7	1
14027	Perfluorooctanoic acid	335-67-1	0.32	U	0.32	0.64	1
14027	Perfluorotetradecanoic acid	376-06-7	0.32	U	0.32	0.85	1
14027	Perfluorotridecanoic acid	72629-94-8	0.64	U	0.64	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.32	U	0.32	0.64	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	221	U	221	662	2.08
	Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	5.8		0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084003	03/27/2016 12:42	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 13:15	Clinton M Wilson	2.08
00111	Moisture	SM 2540 G-1997	1	16081820006B	03/21/2016 23:05	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St LGPG 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294200
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 15:06 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-627 SDG#: SGP06-27

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.55	U	0.55	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.22	U	0.22	0.44	1
14027	Perfluorododecanoic acid	307-55-1	0.44	U	0.44	0.89	1
14027	Perfluoroheptanoic acid	375-85-9	0.33	U	0.33	0.67	1
14027	Perfluorohexanesulfonate	355-46-4	0.55	U	0.55	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.44	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.44	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.78	U	0.78	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.33	U	0.33	0.67	1
14027	Perfluorotetradecanoic acid	376-06-7	0.33	U	0.33	0.89	1
14027	Perfluorotridecanoic acid	72629-94-8	0.67	U	0.67	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.33	U	0.33	0.67	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	242	U	242	726	2.18
	Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	9.9		0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084003	03/27/2016 12:57	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 13:23	Clinton M Wilson	2.18
00111	Moisture	SM 2540 G-1997	1	16081820006B	03/21/2016 23:05	Scott W Freisher	1

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

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: 9 School St LGPG 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8294201
LL Group # 1642382
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/18/2016 15:20 by LC

Submitted: 03/19/2016 09:50
Reported: 03/28/2016 14:03

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P-628 SDG#: SGP06-28

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.46	U	0.46	0.91	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.80	U	0.80	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.34	U	0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	0.34	U	0.34	0.91	1
14027	Perfluorotridecanoic acid	72629-94-8	0.68	U	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.34	U	0.34	0.68	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	222	U	222	666	1.95
	Reporting limits were raised due to interference from the sample matrix.						
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	12.1		0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.						

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084003	03/27/2016 13:11	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631A	03/24/2016 13:30	Clinton M Wilson	1.95
00111	Moisture	SM 2540 G-1997	1	16081820006B	03/21/2016 23:05	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 14:03

Group Number: 1642382

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/g		ng/g	ng/g
Batch number: 16084002	Sample number(s): 8294171-8294174,8294178-8294183,8294185-8294196			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16084003	Sample number(s): 8294197-8294201			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8294175-8294177			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 14:03

Group Number: 1642382

Analysis Name	Result mg/kg		MDL** mg/kg	LOQ mg/kg
Batch number: 16083949631A	Sample number(s): 8294171-8294174,8294178-8294179,8294181-8294182,8294184-8294187			
TOC	100	U	100	300
Batch number: 16083949631B	Sample number(s): 8294188-8294195			
TOC	100	U	100	300
Batch number: 16084949631A	Sample number(s): 8294196-8294201			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084002	Sample number(s): 8294171-8294174,8294178-8294183,8294185-8294196								
Perfluorobutanesulfonate	20	16.8			84		70-130		
Perfluorodecanoic acid	20	19.03			95		70-130		
Perfluorododecanoic acid	20	16.65			83		70-130		
Perfluoroheptanoic acid	20	19.14			96		70-130		
Perfluorohexanesulfonate	20	18.53			93		70-130		
Perfluorohexanoic acid	20	17.33			87		70-130		
Perfluorononanoic acid	20	19.25			96		70-130		
Perfluoro-octanesulfonate	20	17.19			86		70-130		
Perfluorooctanoic acid	20	17.42			87		70-130		
Perfluorotetradecanoic acid	20	18.98			95		70-130		
Perfluorotridecanoic acid	20	17.94			90		70-130		
Perfluoroundecanoic acid	20	18.53			93		70-130		
Batch number: 16084003	Sample number(s): 8294197-8294201								
Perfluorobutanesulfonate	20	22.5			112		70-130		
Perfluorodecanoic acid	20	19.36			97		70-130		
Perfluorododecanoic acid	20	17.06			85		70-130		
Perfluoroheptanoic acid	20	19.41			97		70-130		
Perfluorohexanesulfonate	20	15.36			77		70-130		
Perfluorohexanoic acid	20	18.81			94		70-130		
Perfluorononanoic acid	20	17.44			87		70-130		
Perfluoro-octanesulfonate	20	20.08			100		70-130		
Perfluorooctanoic acid	20	17.81			89		70-130		
Perfluorotetradecanoic acid	20	19.71			99		70-130		
Perfluorotridecanoic acid	20	15.77			79		70-130		
Perfluoroundecanoic acid	20	18.32			92		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8294175-8294177								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30

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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 14:03

Group Number: 1642382

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
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16083949631A	Sample number(s): 8294171-8294174,8294178-8294179,8294181-8294182,8294184-8294187								
TOC	5430	5104.76			94		47-143		
Batch number: 16083949631B	Sample number(s): 8294188-8294195								
TOC	5430	5104.76			94		47-143		
Batch number: 16084949631A	Sample number(s): 8294196-8294201								
TOC	5430	2743.93			51		47-143		
	%	%	%	%					
Batch number: 16081820005A	Sample number(s): 8294171-8294174,8294178-8294184								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		
Batch number: 16081820005B	Sample number(s): 8294185-8294196								
Moisture	89.5	89.47			100		99-101		
Batch number: 16081820006B	Sample number(s): 8294197-8294201								
Moisture	89.5	89.42			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084002	Sample number(s): 8294171-8294174,8294178-8294183,8294185-8294196 UNSPK: 8294181										
Perfluorobutanesulfonate	0.50	U	20	16.03	20	19.51	80	98	70-130	20	30
Perfluorodecanoic acid	0.20	U	20	20.49	20	19.51	102	98	70-130	5	30
Perfluorododecanoic acid	0.40	U	20	19.07	20	19.29	95	96	70-130	1	30
Perfluoroheptanoic acid	0.30	U	20	19.43	20	19.19	97	96	70-130	1	30
Perfluorohexanesulfonate	0.50	U	20	19.15	20	18.08	96	90	70-130	6	30
Perfluorohexanoic acid	0.20	U	20	19.71	20	18.6	99	93	70-130	6	30
Perfluorononanoic acid	0.20	U	20	18	20	19.67	90	98	70-130	9	30
Perfluoro-octanesulfonate	0.70	U	20	23.26	20	15.7	116	78	70-130	39*	30
Perfluorooctanoic acid	2.31		20	19.69	20	20.69	87	92	70-130	5	30
Perfluorotetradecanoic acid	0.30	U	20	18.7	20	18.25	94	91	70-130	2	30
Perfluorotridecanoic acid	0.60	U	20	16.19	20	16.46	81	82	70-130	2	30
Perfluoroundecanoic acid	0.30	U	20	19.32	20	17.93	97	90	70-130	7	30
Batch number: 16084003	Sample number(s): 8294197-8294201 UNSPK: 8294197										
Perfluorobutanesulfonate	0.50	U	20	16.61	20	16.42	83	82	70-130	1	30
Perfluorodecanoic acid	0.20	U	20	20.32	20	17.91	102	90	70-130	13	30
Perfluorododecanoic acid	0.40	U	20	18.77	20	17.88	94	89	70-130	5	30
Perfluoroheptanoic acid	0.30	U	20	18.49	20	20.91	92	105	70-130	12	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 14:03

Group Number: 1642382

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorohexanesulfonate	0.50	U	20	16.29	20	23	81	115	70-130	34*	30
Perfluorohexanoic acid	0.20	U	20	17.42	20	19.44	87	97	70-130	11	30
Perfluorononanoic acid	0.20	U	20	19.28	20	19.01	96	95	70-130	1	30
Perfluoro-octanesulfonate	0.70	U	20	17.23	20	15.74	86	79	70-130	9	30
Perfluorooctanoic acid	0.30	U	20	18.63	20	17.23	93	86	70-130	8	30
Perfluorotetradecanoic acid	0.30	U	20	17.4	20	16.98	87	85	70-130	2	30
Perfluorotridecanoic acid	0.60	U	20	17.77	20	15.47	89	77	70-130	14	30
Perfluoroundecanoic acid	0.30	U	20	18	20	21.5	90	107	70-130	18	30
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16083949631A	Sample number(s): 8294171-8294174,8294178-8294179,8294181-8294182,8294184-8294187 UNSPK: 8294182										
TOC	4792.9		5110	8332.48			69		47-143		
Batch number: 16083949631B	Sample number(s): 8294188-8294195 UNSPK: 8294188										
TOC	5525.38		6059	11585.54			100		47-143		
Batch number: 16084949631A	Sample number(s): 8294196-8294201 UNSPK: 8294196										
TOC	5817.55		14790	19743.46			94		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16083949631A	Sample number(s): 8294171-8294174,8294178-8294179,8294181-8294182,8294184-8294187 BKG: 8294182			
TOC	4792.9	3503.05	31*	7
Batch number: 16083949631B	Sample number(s): 8294188-8294195 BKG: 8294188			
TOC	5525.38	3961.36	33*	7
Batch number: 16084949631A	Sample number(s): 8294196-8294201 BKG: 8294196			
TOC	5817.55	3166.37	59*	7
	%	%		
Batch number: 16081820005A	Sample number(s): 8294171-8294174,8294178-8294184 BKG: 8294181, P294181			
Moisture	16.7	17.3	4	5
Moisture	16.7	17.3	4	5
Moisture Duplicate	16.7	17.3	4	5
Batch number: 16081820005B	Sample number(s): 8294185-8294196 BKG: 8294189			
Moisture	13.64	11.48	17*	5
Batch number: 16081820006B	Sample number(s): 8294197-8294201 BKG: P294812			
Moisture	47.63	56.5	17*	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642382 Sample # 8294171-201

COC # 492485

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment / Soil	Ground / Potable / Water	Surface / NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
													0							
Bennington College Garden 0" to 6"	3/18/16	0915	X		X				2	X	X	X								
Bennington College Garden 6" to 12"		0924	X		X				2	X	X	X								
Bennington College Garden 12" to 18"		0933	X		X				2	X	X	X								
Bennington College Garden 18" to 24"		0944	X		X				2	X	X	X								
Auger Rinse #3		0950	X			X			2				X							Lab Provided DI water
Bowl Rinse #3		0955	X			X			2				X							Lab Provided DI water
Transport Blank 031816	3/16/16	—	X			X			1				X							Lab Supplied
B. College Adj. to Garden 0" to 6"	3/18/16	1015	X		X				2	X	X	X								
B. College Adj. to Garden 6" to 12"	3/18/16	1027	X		X				2	X	X	X								
B. College Adj. to Garden Duplicate	3/18/16	1020	X		X				1	X										

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/18/16	1650			

Relinquished by	Date	Time	Received by	Date	Time
				3/19/16	0950

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1647382 Sample # 8294171-201

COC # 492486

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
B. College Adj to Garden 12" to 18"	3/18/16	1041	X			X						4	X	X	X	MS/MSD here
B. College Adj to Garden 18" to 24"	3/18/16	1051	X			X						2	X	X	X	
B. College Adj to Soccer field 0" to 6"	3/18/16	1127	X			X						2	X	X	X	
B. College Adj to Soccer field 6" to 12"	3/18/16	1135	X			X						2	X	X	X	
B. College Adj to Soccer field 12" to 18"	3/18/16	1145	X			X						2	X	X	X	
B. College Adj to Soccer field 18" to 24"	3/18/16	1156	X			X						2	X	X	X	
Jennings Meadow Trail 0" to 6"	3/18/16	1237	X			X						2	X	X	X	
Jennings Meadow Trail 6" to 12"	3/18/16	1245	X			X						2	X	X	X	
Jennings Meadow Trail 12" to 18"	3/18/16	1257	X			X						2	X	X	X	
Jennings Meadow Trail 18" to 24"	3/18/16	1305	X			X						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	03/18/16	1650			
				3/19/16	0950

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.8 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1642382 Sample # 8294171-201

COC # 493461

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirsten Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☒	Sediment ☐	Water: Potable ☐	Ground ☐	NPDES ☐	Surface ☐	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
9 School St SMPG 0" to 6"	3/18/16	1355	X		X							2	X	X	X	
9 School St SMPG 6" to 12"	3/18/16	1405	X		X							2	X	X	X	
9 School St SMPG 12" to 18"	3/18/16	1413	X		X							2	X	X	X	
9 School St SMPG 18" to 24"	3/18/16	1422	X		X							2	X	X	X	
9 School St LGPG 0" to 6"	3/18/16	1450	X		X							2	X	X	X	
9 School St LGPG 6" to 12"	3/18/16	1459	X		X							2	X	X	X	
9 School St LGPG 12" to 18"	3/18/16	1506	X		X							2	X	X	X	
9 School St LGPG 18" to 24"	3/18/16	1520	X		X							2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/18/16	1650			

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Temperature upon receipt 3.1-4.8 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140007

Group Number(s): 1642382

Client: CT Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/19/2016 9:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VT		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	No
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 250mL Na2S2O3 Preserved Poly

Unpacked by Patrick Engle (3472) at 10:46 on 03/19/2016

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	DT121	4.8	DT	Wet	Y	Bagged	N
2	DT121	4.5	DT	Wet	Y	Bagged	N
3	DT121	3.1	DT	Wet	Y	Bagged	N
4	DT121	4.2	DT	Wet	Y	Bagged	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
Bennington College Garden 6" to 12"	3/18/2016 09:24	No Date on COC
Bennington College Garden 12" to 18"	3/18/2016 09:33	No Date on COC
Bennington College Garden 18" to 24"	3/18/2016 09:44	No Date on COC
Auger Rinse #3	3/18/2016 09:50	No Date on COC
Bowl Rinse #3	3/18/2016 09:55	No Date on COC
9 School st SMPG 18" to 24"	3/18/2016 14:26	Time = 1422 on COC

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 01, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/23/2016
Group Number: 1643263
SDG: SGP09
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Pembroke Stockpile 1 Grab Soil	8298601
29 Lever St 0" to 6" Grab Soil	8298602
29 Lever St 6" to 12" Grab Soil	8298603
29 Lever St 12" to 18" Grab Soil	8298604
29 Lever St 18" to 24" Grab Soil	8298605
2009 N Bennington Rd 0" to 6" Grab Soil	8298606
2009 N Bennington Rd 6" to 12" Grab Soil	8298607
2009 N Bennington Rd 12" to 18" Grab Soil	8298608
9 School St Maple Tree 0" to 6" Grab Soil	8298609
9 School St Maple Tree 6" to 12" Grab Soil	8298610
9 School St Maple Tree 12" to 18" Grab Soil	8298611
9 School St NE Corner PL 0" to 6" Grab Soil	8298612
9 School St NE Corner PL 6" to 12" Grab Soil	8298613
9 School St NE Corner PL 12" to 18" Grab Soil	8298614
9 School St NE Corner PL Duplicate Grab Soil	8298615
Auger Rinse #6 Grab Blank Water	8298616
Bowl Rinse #6 Grab Blank Water	8298617
Transport Blank 032216 Water	8298618
WWTP Liquid Grab Sludge	8298619
Pembroke Garden 0" to 6" Grab Soil	8298620
Pembroke Garden 0" to 6" MS Grab Soil	8298621
Pembroke Garden 0" to 6" MSD Grab Soil	8298622
Pembroke Garden 0" to 6" Dupl Grab Soil	8298623
Pembroke Garden 6" to 12" Grab Soil	8298624
Pembroke Garden 12" to 18" Grab Soil	8298625
Pembroke Garden 18" to 24" Grab Soil	8298626
Pembroke Stockpile 2 Grab Soil	8298627

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643263

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8298616-8298619 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16085005 (Sample number(s): 8298601-8298615, 8298620-8298622, 8298624-8298627 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluorohexanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16085049531A (Sample number(s): 8298601-8298609 UNSPK: 8298609 BKG: 8298609)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631A (Sample number(s): 8298620-8298621, 8298623-8298627 UNSPK: 8298620 BKG: 8298620)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949631B (Sample number(s): 8298610-8298612 UNSPK: 8298611 BKG: 8298611)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16085949632A (Sample number(s): 8298613-8298614 UNSPK: 8298613 BKG: 8298613)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: 9 School St Maple Tree 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298609
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 12:54 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.28	J	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.31	J	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.3		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	8,790		788	2,370	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 01:43	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085049531A	03/25/2016 13:50	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St Maple Tree 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298610
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 13:01 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	0.50	U	0.50	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.87	U	0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	3.1		0.37	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	0.75	U	0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,530		747	2,240	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 01:57	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631B	03/25/2016 23:46	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St Maple Tree 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298611
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 13:13 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.85	U	0.85	1.9	1
14027	Perfluorooctanoic acid	335-67-1	2.9		0.36	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	0.73	U	0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,340		487	1,460	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 02:12	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631B	03/25/2016 23:54	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St NE Corner PL 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298612
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 13:33 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.70	U	0.70	2.2	1
14027	Perfluorodecanoic acid	335-76-2	0.28	U	0.28	0.56	1
14027	Perfluorododecanoic acid	307-55-1	0.56	U	0.56	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.42	U	0.42	0.84	1
14027	Perfluorohexanesulfonate	355-46-4	0.70	U	0.70	2.2	1
14027	Perfluorohexanoic acid	307-24-4	0.28	U	0.28	0.56	1
14027	Perfluorononanoic acid	375-95-1	0.28	U	0.28	0.56	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.1	J	0.98	2.2	1
14027	Perfluorooctanoic acid	335-67-1	0.88		0.42	0.84	1
14027	Perfluorotetradecanoic acid	376-06-7	0.42	U	0.42	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.84	U	0.84	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.42	U	0.42	0.84	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	26,400		824	2,470	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	28.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 02:54	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949631B	03/26/2016 00:02	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St NE Corner PL 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298613
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 13:40 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.46	U	0.46	0.93	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.70	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.81	U	0.81	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.35	U	0.35	0.70	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.93	1
14027	Perfluorotridecanoic acid	72629-94-8	0.70	U	0.70	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.70	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	11,400		460	1,380	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	13.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 03:09	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949632A	03/27/2016 00:30	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St NE Corner PL 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298614
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 13:57 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.82	U	0.82	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.75		0.35	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	5,900		322	967	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 03:23	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16085949632A	03/26/2016 22:20	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

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Analysis Report

Sample Description: 9 School St NE Corner PL Duplicate Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8298615
LL Group # 1643263
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/22/2016 14:00 by LC

Submitted: 03/23/2016 10:00
Reported: 04/01/2016 12:05

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0901 SDG#: SGP09-15FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.24	U	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.91	J	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.89		0.35	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.71	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16085005	03/29/2016 03:37	Meng Yu	1
00111	Moisture	SM 2540 G-1997	1	16083820007A	03/23/2016 17:22	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

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/g		ng/g	ng/g
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8298616-8298619			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16085049531A	Sample number(s): 8298601-8298609			
TOC	100	U	100	300
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627			
TOC	100	U	100	300
Batch number: 16085949631B	Sample number(s): 8298610-8298612			
TOC	100	U	100	300
Batch number: 16085949632A	Sample number(s): 8298613-8298614			
TOC	100	U	100	300

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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627								
Perfluorobutanesulfonate	20	15.48			77		70-130		
Perfluorodecanoic acid	20	18.64			93		70-130		
Perfluorododecanoic acid	20	18.1			91		70-130		
Perfluoroheptanoic acid	20	14.93			75		70-130		
Perfluorohexanesulfonate	20	17.86			89		70-130		
Perfluorohexanoic acid	20	16.82			84		70-130		
Perfluorononanoic acid	20	16.54			83		70-130		
Perfluoro-octanesulfonate	20	16.03			80		70-130		
Perfluorooctanoic acid	20	16.71			84		70-130		
Perfluorotetradecanoic acid	20	19.16			96		70-130		
Perfluorotridecanoic acid	20	17.51			88		70-130		
Perfluoroundecanoic acid	20	18.55			93		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609								
TOC	5430	4355.58			80		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612								
TOC	5430	5303.03			98		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614								
TOC	5430	5633.66			104		47-143		
	%	%	%	%					
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		
Batch number: 16083820007B	Sample number(s): 8298624-8298627								
Moisture	89.5	89.47			100		99-101		

MS/MSD

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g		MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16085005	Sample number(s): 8298601-8298615,8298620-8298622,8298624-8298627 UNSPK: 8298620										
Perfluorobutanesulfonate	0.50	U	20	19.77	20	17.06	99	85	70-130	15	30
Perfluorodecanoic acid	0.20	U	20	19.35	20	20.85	97	104	70-130	7	30
Perfluorododecanoic acid	0.40	U	20	19.96	20	20.51	100	103	70-130	3	30
Perfluoroheptanoic acid	0.30	U	20	17.45	20	19.01	87	95	70-130	9	30
Perfluorohexanesulfonate	0.50	U	20	16.01	20	22.29	80	111	70-130	33*	30
Perfluorohexanoic acid	0.20	U	20	20.75	20	19.87	104	99	70-130	4	30
Perfluorononanoic acid	0.285		20	17.53	20	18.76	86	92	70-130	7	30
Perfluoro-octanesulfonate	0.70	U	20	22.25	20	20.85	111	104	70-130	7	30
Perfluorooctanoic acid	0.621		20	20.15	20	21.78	98	106	70-130	8	30
Perfluorotetradecanoic acid	0.30	U	20	18.9	20	22.87	95	114	70-130	19	30
Perfluorotridecanoic acid	0.60	U	20	20.16	20	18.01	101	90	70-130	11	30
Perfluoroundecanoic acid	0.30	U	20	19.31	20	21.05	97	105	70-130	9	30
	ng/l		ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8298616-8298619 UNSPK: 8298619										
Perfluorooctanoic acid	353.46		200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77		200	212.06			100		70-130		
Perfluorodecanoic acid	4	U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24		200	217.48			105		70-130		
Perfluorododecanoic acid	10	U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8	U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10	U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4	U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94		200	220.71			94		70-130		
Perfluorobutanesulfonate	20	U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20	U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20	U	200	277.75			139*		70-130		
	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16085049531A	Sample number(s): 8298601-8298609 UNSPK: 8298609										
TOC	7316.27		36330	38474.58			86		47-143		
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 UNSPK: 8298620										
TOC	9011.75		15840	20898.05			75		47-143		
Batch number: 16085949631B	Sample number(s): 8298610-8298612 UNSPK: 8298611										
TOC	5226.63		40053	55767.69			126		47-143		
Batch number: 16085949632A	Sample number(s): 8298613-8298614 UNSPK: 8298613										
TOC	9810.05		17104	26157.35			96		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16085049531A	Sample number(s): 8298601-8298609 BKG: 8298609			

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/01/2016 12:05

Group Number: 1643263

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
TOC	7316.27	3693.5	66* (1)	7
Batch number: 16085949631A	Sample number(s): 8298620-8298621,8298623-8298627 BKG: 8298620			
TOC	9011.75	7631.15	17*	7
Batch number: 16085949631B	Sample number(s): 8298610-8298612 BKG: 8298611			
TOC	5226.63	4793.28	9* (1)	7
Batch number: 16085949632A	Sample number(s): 8298613-8298614 BKG: 8298613			
TOC	9810.05	9008.73	9*	7
	%	%		
Batch number: 16083820007A	Sample number(s): 8298601-8298615,8298620-8298623 BKG: 8298620, P298620			
Moisture	17.39	17.01	2	5
Moisture	17.39	17.01	2	5
Moisture Duplicate	17.39	17.01	2	5
Batch number: 16083820007B	Sample number(s): 8298624-8298627 BKG: 8298626			
Moisture	14.71	14.87	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643263 Sample # 8298601-27

COC # 493490

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
Pembroke Stockpile 1	3/22/16	0925		X		X							2	X	X	X	
29 Lever St 0" to 6"	3/22/16	1030	X			X							2	X	X	X	
29 Lever St 6" to 12"	3/22/16	1040	X			X							2	X	X	X	
29 Lever St 12" to 18"	3/22/16	1050	X			X							2	X	X	X	
29 Lever St 18" to 24"	3/22/16	1100	X			X							2	X	X	X	
2009 N. Bennington Rd 0"to6"	3/22/16	1131	X			X							2	X	X	X	
2009 N. Bennington Rd 6"to 12"	3/22/16	1137	X			X							2	X	X	X	
2009 N. Bennington Rd 12"to18"	3/22/16	1153	X			X							2	X	X	X	
9 School St Maple Tree 0"to6"	3/22/16	1254	X			X							2	X	X	X	
9 School St Maple Tree 6"to12"	3/22/16	1301	X			X							2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard (Rush)

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? (Yes) No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? (Yes) No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 / 3.9 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493362

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil ☒	Sediment ☐	Water: Potable ☐	Ground ☐	NPDES ☐	Surface ☐	Other: Liquid Sludge	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
9 School St Maple Tree 12" to 18"	3/22/16	1313	X		X							2	X	X	X								
9 School St NE Corner PL 0" to 6"	3/22/16	1333	X		X							2	X	X	X								
9 School St NE Corner PL 6" to 12"	3/22/16	1340	X		X							2	X	X	X								
9 School St NE Corner PL 12" to 18"	3/22/16	1357	X		X							2	X	X	X								
9 School St NE Corner PL Duplicate	3/22/16	1400	X		X							1	X										
Auger Rinse #6	3/22/16	1410	X				X					2				X							Lab DI Water
Bowl Rinse #6	3/22/16	1412	X				X					2				X							Lab DI Water
Transport Blank 032216	3/18/16	—	X				X					1				X							Lab supplied
WWTP Liquid Sludge	3/22/16	1435	X								X	2				X							
Pembroke Garden 0" to 6"	3/22/16	1500	X		X							4	X	X	X								MS/MSD Here

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/22/16	17:00			
			[illegible]	3/23/16	1000

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.9 - 3.9 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643763 Sample # 8298601-27

COC # 493363

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected:

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Potable	Ground	Water	NPDES	Surface	Other:	Total # of Containers	EPA 537	TOC	Moisture									Remarks
Pembroke Garden 6" to 12"	3/22/16	1506	X			X							2	X	X	X									
Pembroke Garden 12" to 18"	3/22/16	1512	X			X							2	X	X	X									
Pembroke Garden 18" to 24"	3/22/16	1520	X			X							2	X	X	X									
Pembroke Stockpile 2	3/22/16	1538	X			X							2	X	X	X									

Analysis Requested / Preservation Codes

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/24/16	17:00			
			Kristen Abel	3/25/16	1005

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 2.9-3.9 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 140307

Group Number(s): 1643263

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/23/2016 10:00
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	1
Samples Intact:	No	Trip Blank Type:	Na2S2O3
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:00 on 03/23/2016

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	DT146	2.9	DT	Wet	Y	Bagged	N
2	DT146	3.9	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
2009 N. Bennington Rd 6" to 12	125 ml wide mouth glass - None	1	N	subsampled for TOC/moist.

2425 New Holland Pike
Lancaster, PA 17605-2425

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F 717-656-2681
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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 29, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/22/2016
Group Number: 1642988
SDG: SGP07
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
Asa Way Vac Lot 0" to 6" Grab Soil	8297354
Asa Way Vac Lot 6" to 12" Grab Soil	8297355
Asa Way Vac Lot 12" to 18" Grab Soil	8297356
Asa Way Vac Lot 18" to 24" Grab Soil	8297357
Auger Rinse #4 Grab Blank Water	8297358
Bowl Rinse #4 Grab Blank Water	8297359
Transport Blank 032116 Water	8297360
26 Susan Taylor 0" to 6" Grab Soil	8297361
26 Susan Taylor 0" to 6" MS Grab Soil	8297362
26 Susan Taylor 0" to 6" MSD Grab Soil	8297363
26 Susan Taylor 0" to 6" Dupl Grab Soil	8297364
26 Susan Taylor Duplicate Grab Soil	8297365
26 Susan Taylor 6" to 12" Grab Soil	8297366
26 Susan Taylor 12" to 18" Grab Soil	8297367
26 Susan Taylor 18" to 24" Grab Soil	8297368
10 Scarey Ln 0" to 6" Grab Soil	8297369
10 Scarey Ln 6" to 12" Grab Soil	8297370
10 Scarey Ln 12" to 18" Grab Soil	8297371
10 Scarey Ln 18" to 24" Grab Soil	8297372
26 Scarey Ln 0" to 6" Grab Soil	8297373
26 Scarey Ln 6" to 12" Grab Soil	8297374
8 Polygraphic Ln 0" to 6" Grab Soil	8297375

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1642988

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8297358, 8297359, 8297360

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

Batch #: 16083003 (Sample number(s): 8297358-8297360)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

Batch #: 16084007 (Sample number(s): 8297354-8297357, 8297361-8297363, 8297365-8297375 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16084949631A (Sample number(s): 8297355-8297357 UNSPK: P294196 BKG: P294196)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16084949631B (Sample number(s): 8297354, 8297361-8297362, 8297364, 8297366-8297372 UNSPK: 8297361 BKG: 8297361)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

SM 2540 G-1997, Wet Chemistry

Batch #: 16083820002A (Sample number(s): 8297354-8297357 BKG: 8297355)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Moisture

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Analysis Report

Sample Description: 26 Susan Taylor 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297361
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:05 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0708 SDG#: SGP07-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.58		0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	0.50	U	0.50	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.87	U	0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	0.63	J	0.37	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	0.75	U	0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	J	0.37	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,850		248	745	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 06:17	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 15:37	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

Sample Description: 26 Susan Taylor 0" to 6" MS Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297362
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:05 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0708 SDG#: SGP07-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	21	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	26	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	23	0.50	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	25	0.37	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	31	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	21	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	22	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	32	0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	22	0.37	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	26	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	20	0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	23	0.37	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	15,700	415	1,240	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	19.5	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 06:31	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 22:04	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 26 Susan Taylor 0" to 6" MSD Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297363
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:05 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0708 SDG#: SGP07-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**	**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	23	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	25	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	23	0.50	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	25	0.37	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	25	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	20	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	23	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	18	0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	24	0.37	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	21	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	18	0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	21	0.37	0.75	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	19.5	0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 06:45	Jason W Knight	1
00118	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 26 Susan Taylor 0" to 6" Dupl Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297364
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:05 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0708 SDG#: SGP07-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**	**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,460	219	656	1
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	**%**	
00118	Moisture	n.a.	19.5	0.50	0.50	1
00121	Moisture Duplicate	n.a.	18.8	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 15:53	Clinton M Wilson	1
00118	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1
00121	Moisture Duplicate	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 26 Susan Taylor Duplicate Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297365
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:10 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0709 SDG#: SGP07-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.46	U	0.46	0.92	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.81	U	0.81	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.71		0.35	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.92	1
14027	Perfluorotridecanoic acid	72629-94-8	0.69	U	0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.69	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	13.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 07:57	Jason W Knight	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 26 Susan Taylor 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297366
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:13 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0710 SDG#: SGP07-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.25	J	0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	0.47	U	0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.82	U	0.82	1.9	1
14027	Perfluorooctanoic acid	335-67-1	0.86		0.35	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	0.35	U	0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	0.71	U	0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	1,600		233	698	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	14.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 08:25	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 16:02	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 26 Susan Taylor 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297367
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:20 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0711 SDG#: SGP07-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	1.8		0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	1.3		0.49	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.41	J	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.2	J	0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.5		0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.51	J	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.90		0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,200		288	864	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 08:39	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 16:09	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

Sample Description: 26 Susan Taylor 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8297368
LL Group # 1642988
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/21/2016 10:26 by LC

Submitted: 03/22/2016 09:45
Reported: 03/29/2016 11:29

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P0712 SDG#: SGP07-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.54		0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	0.48	U	0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.45	J	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	1.6		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	0.36	U	0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	0.72	U	0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,590		253	758	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16084007	03/28/2016 08:54	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16084949631B	03/24/2016 16:16	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16083820002B	03/23/2016 10:48	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

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/g		ng/g	ng/g
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8297358-8297360			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16084949631A	Sample number(s): 8297355-8297357			
TOC	100	U	100	300
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372			
TOC	100	U	100	300
Batch number: 16084949632A	Sample number(s): 8297373-8297375			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375								
Perfluorobutanesulfonate	20	17.26			86		70-130		
Perfluorodecanoic acid	20	19.11			96		70-130		
Perfluorododecanoic acid	20	18.17			91		70-130		
Perfluoroheptanoic acid	20	18.61			93		70-130		
Perfluorohexanesulfonate	20	14.91			75		70-130		
Perfluorohexanoic acid	20	16.77			84		70-130		
Perfluorononanoic acid	20	17.99			90		70-130		
Perfluoro-octanesulfonate	20	20.89			104		70-130		
Perfluorooctanoic acid	20	16.59			83		70-130		
Perfluorotetradecanoic acid	20	19.73			99		70-130		
Perfluorotridecanoic acid	20	15.69			78		70-130		
Perfluoroundecanoic acid	20	17.08			85		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8297358-8297360								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372								
TOC	5430	2743.93			51		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375								
TOC	5430	4448.16			82		47-143		
	%	%	%	%					
Batch number: 16083820002A	Sample number(s): 8297354-8297357								
Moisture	89.5	89.47			100		99-101		
Batch number: 16083820002B	Sample number(s): 8297361-8297375								
Moisture	89.5	89.47			100		99-101		
Moisture	89.5	89.47			100		99-101		
Moisture Duplicate	89.5	89.47			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/29/2016 11:29

Group Number: 1642988

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16084007	Sample number(s): 8297354-8297357,8297361-8297363,8297365-8297375 UNSPK: 8297361									
Perfluorobutanesulfonate	0.50 U	20	16.77	20	18.36	84	92	70-130	9	30
Perfluorodecanoic acid	0.468	20	20.97	20	19.73	103	96	70-130	6	30
Perfluorododecanoic acid	0.40 U	20	18.68	20	18.77	93	94	70-130	0	30
Perfluoroheptanoic acid	0.30 U	20	19.82	20	20.51	99	103	70-130	3	30
Perfluorohexanesulfonate	0.50 U	20	24.58	20	20.13	123	101	70-130	20	30
Perfluorohexanoic acid	0.20 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorononanoic acid	0.20 U	20	17.45	20	18.3	87	91	70-130	5	30
Perfluoro-octanesulfonate	0.70 U	20	25.38	20	14.58	127	73	70-130	54*	30
Perfluorooctanoic acid	0.511	20	17.68	20	19.66	86	96	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	20.6	20	16.83	103	84	70-130	20	30
Perfluorotridecanoic acid	0.60 U	20	16.16	20	14.25	81	71	70-130	13	30
Perfluoroundecanoic acid	0.312	20	18.17	20	17.26	89	85	70-130	5	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16084949631A	Sample number(s): 8297355-8297357 UNSPK: P294196									
TOC	5817.55	14790	19743.46			94		47-143		
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 UNSPK: 8297361									
TOC	5512	10007	12605.07			71		47-143		
Batch number: 16084949632A	Sample number(s): 8297373-8297375 UNSPK: P297411									
TOC	14599.68	13593	24218.4			71		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16084949631A	Sample number(s): 8297355-8297357 BKG: P294196			
TOC	5817.55	3166.37	59*	7
Batch number: 16084949631B	Sample number(s): 8297354,8297361-8297362,8297364,8297366-8297372 BKG: 8297361			
TOC	5512	6002.81	9*	7
Batch number: 16084949632A	Sample number(s): 8297373-8297375 BKG: P297411			
TOC	14599.68	15419.66	5	7
	%	%		
Batch number: 16083820002A	Sample number(s): 8297354-8297357 BKG: 8297355			
Moisture	17.48	16.51	6*	5
Batch number: 16083820002B	Sample number(s): 8297361-8297375 BKG: 8297361, P297361			
Moisture	19.48	18.8	4	5
Moisture	19.48	18.8	4	5
Moisture Duplicate	19.48	18.8	4	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 3719 Group # 1642988 Sample # 8297354-75

COC # 493463

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: UT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground ☐	Surface ☐	Potable ☐	NPDES ☐	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
													Preservation Codes				0							
Asa Way Vacant Lot 0" to 6"	3/21/16	0907	X			X							2	X	X	X								
Asa Way Vacant Lot 6" to 12"	3/21/16	0913	X			X							2	X	X	X								
Asa Way Vacant Lot 12" to 18"	3/21/16	0925	X			X							2	X	X	X								
Asa Way Vacant Lot 18" to 24"	3/21/16	0931	X			X							2	X	X	X								
LC ~~Asa Way Vacant Lot~~																								
Auger Rinse # 4	3/21/16	0938	X					X					2				X							Lab DI Water
Bowl Rinse # 4	3/21/16	0935	X					X					2				X							Lab DI Water
Transport Blank 032116	3/16/16	—	X					X				LC	1				X							Lab Supplied
26 Susan Taylor 0" to 6"	3/21/16	1005	X			X							4	X	X	X								MS/MSD here
26 Susan Taylor Duplicate	3/21/16	1010	X			X							1	X										

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/21/16	1655			
			Kristen Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____

Temperature upon receipt 4.5 / 5.4 °C

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Remarks

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1642988 Sample # 8297354-75

COC # 493361

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Lorene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate

N=HNO_3 B=NaOH

S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Water: Ground	Water: Potable	Water: Surface	Water: NPDES	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
26 Susan Taylor 6" to 12"	3/21/16	1013	X			X						2	X	X	X	
26 Susan Taylor 12" to 18"	3/21/16	1020	X			X						2	X	X	X	
26 Susan Taylor 18" to 24"	3/21/16	1026	X			X						2	X	X	X	
10 Scarey Ln 0" to 6"	3/21/16	1055	X			X						2	X	X	X	
10 Scarey Ln 6" to 12"	3/21/16	1101	X			X						2	X	X	X	
10 Scarey Ln 12" to 18"	3/21/16	1114	X			X						2	X	X	X	
10 Scarey Ln 18" to 24"	3/21/16	1125	X			X						2	X	X	X	
26 Scarey Ln WH 0" to 6"	3/21/16	1231	X			X						2	X	X	X	
26 Scarey Ln WH 6" to 12"	3/21/16	1240	X			X						2	X	X	X	
8 Polygraphic Ln 0" to 6"	3/21/16	1333	X			X						2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Lorene Cameron	3/21/16	1655			
			Krista Abel	3/22/16	0945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS FedEx X Other

Temperature upon receipt 4.5 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140176

Group Number(s): 1642988

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/22/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:32 on 03/22/2016

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	DT146	5.1	DT	Wet	Y	Bagged	N
2	DT146	4.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: March 28, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/18/2016
Group Number: 1641935
SDG: SGP04
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
37 Susan Taylor 0-6" Grab Soil	8291949
37 Susan Taylor 6"-12" Grab Soil	8291950
37 Susan Taylor 12"-18" Grab Soil	8291951
37 Susan Taylor Garden 0-6" Grab Soil	8291952
37 Susan Taylor Garden 6"-12" Grab Soil	8291953
37 Susan Taylor Garden 12"-18" Grab Soil	8291954
37 Susan Taylor Garden 18"-24" Grab Soil	8291955
Bowl Rinse Blank #1 Water	8291956

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1641935

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Sample #s: 8291956

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

Batch #: 16083002 (Sample number(s): 8291949-8291955 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorobutanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

Batch #: 16083003 (Sample number(s): 8291956)

The recovery(ies) for the following analyte(s) in the LCS and/or LCSD were below the acceptance window: Perfluorobutanesulfonate, Perfluorohexanesulfonate, Perfluorotetradecanoic acid

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16080049531B (Sample number(s): 8291949-8291955 UNSPK: 8291955 BKG: 8291955)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Sample Description: 37 Susan Taylor 0-6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291949
LL Group # 1641935
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 10:30 by LC

Submitted: 03/18/2016 09:30
Reported: 03/28/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

37S-1 SDG#: SGP04-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.71	U	0.71	2.3	1
14027	Perfluorodecanoic acid	335-76-2	2.2		0.29	0.57	1
14027	Perfluorododecanoic acid	307-55-1	0.81	J	0.57	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.43	U	0.43	0.86	1
14027	Perfluorohexanesulfonate	355-46-4	0.71	U	0.71	2.3	1
14027	Perfluorohexanoic acid	307-24-4	0.29	U	0.29	0.57	1
14027	Perfluorononanoic acid	375-95-1	0.81		0.29	0.57	1
14027	Perfluoro-octanesulfonate	1763-23-1	3.3		1.0	2.3	1
14027	Perfluorooctanoic acid	335-67-1	5.8		0.43	0.86	1
14027	Perfluorotetradecanoic acid	376-06-7	0.43	U	0.43	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.86	U	0.86	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.96		0.43	0.86	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	34,700		1,510	4,530	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	30.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083002	03/27/2016 15:07	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531B	03/21/2016 00:03	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006A	03/18/2016 17:15	Scott W Freisher	1

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

Sample Description: 37 Susan Taylor 6"-12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291950
LL Group # 1641935
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 10:45 by LC

Submitted: 03/18/2016 09:30
Reported: 03/28/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

37S-2 SDG#: SGP04-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.28	J	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.89	U	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	3.5		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.38	U	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.38	U	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	5,930		518	1,560	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083002	03/27/2016 16:04	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531B	03/21/2016 00:11	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006A	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 37 Susan Taylor 12"-18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291951
LL Group # 1641935
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 10:55 by LC

Submitted: 03/18/2016 09:30
Reported: 03/28/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

37S-3 SDG#: SGP04-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.29	J	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	0.50	U	0.50	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.87	U	0.87	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.5		0.37	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.75	U	0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,100		547	1,640	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083002	03/27/2016 16:18	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531B	03/21/2016 00:24	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006A	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 37 Susan Taylor Garden 0-6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291952
LL Group # 1641935
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 11:15 by LC

Submitted: 03/18/2016 09:30
Reported: 03/28/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

37SG1 SDG#: SGP04-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.73	U	0.73	2.3	1
14027	Perfluorodecanoic acid	335-76-2	0.29	U	0.29	0.59	1
14027	Perfluorododecanoic acid	307-55-1	0.59	U	0.59	1.2	1
14027	Perfluoroheptanoic acid	375-85-9	0.44	U	0.44	0.88	1
14027	Perfluorohexanesulfonate	355-46-4	0.73	U	0.73	2.3	1
14027	Perfluorohexanoic acid	307-24-4	0.29	U	0.29	0.59	1
14027	Perfluorononanoic acid	375-95-1	0.29	U	0.29	0.59	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.0	U	1.0	2.3	1
14027	Perfluorooctanoic acid	335-67-1	8.2		0.44	0.88	1
14027	Perfluorotetradecanoic acid	376-06-7	0.44	U	0.44	1.2	1
14027	Perfluorotridecanoic acid	72629-94-8	0.88	U	0.88	1.8	1
14027	Perfluoroundecanoic acid	2058-94-8	0.44	U	0.44	0.88	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	48,600		1,560	4,680	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	31.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083002	03/27/2016 16:32	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531B	03/21/2016 00:32	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006A	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 37 Susan Taylor Garden 6"-12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291953
LL Group # 1641935
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 11:20 by LC

Submitted: 03/18/2016 09:30
Reported: 03/28/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

37SG2 SDG#: SGP04-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.68	U	0.68	2.2	1
14027	Perfluorodecanoic acid	335-76-2	0.27	U	0.27	0.55	1
14027	Perfluorododecanoic acid	307-55-1	0.55	U	0.55	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.41	U	0.41	0.82	1
14027	Perfluorohexanesulfonate	355-46-4	0.68	U	0.68	2.2	1
14027	Perfluorohexanoic acid	307-24-4	0.27	U	0.27	0.55	1
14027	Perfluorononanoic acid	375-95-1	0.27	U	0.27	0.55	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.95	U	0.95	2.2	1
14027	Perfluorooctanoic acid	335-67-1	7.3		0.41	0.82	1
14027	Perfluorotetradecanoic acid	376-06-7	0.41	U	0.41	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.82	U	0.82	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.41	U	0.41	0.82	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	31,900		1,550	4,640	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	26.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083002	03/27/2016 16:46	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531B	03/21/2016 00:49	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006A	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 37 Susan Taylor Garden 12"-18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291954
LL Group # 1641935
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 11:25 by LC

Submitted: 03/18/2016 09:30
Reported: 03/28/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

37SG3 SDG#: SGP04-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.65	U	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.52	U	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.79	1
14027	Perfluorohexanesulfonate	355-46-4	0.65	U	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.92	U	0.92	2.1	1
14027	Perfluorooctanoic acid	335-67-1	5.2		0.39	0.79	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.79	U	0.79	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.79	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	26,800		1,480	4,450	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	23.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083002	03/27/2016 17:01	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531B	03/21/2016 01:02	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006A	03/18/2016 17:15	Scott W Freisher	1

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

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Analysis Report

Sample Description: 37 Susan Taylor Garden 18"-24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8291955
LL Group # 1641935
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/16/2016 11:35 by LC

Submitted: 03/18/2016 09:30
Reported: 03/28/2016 17:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

37SG4 SDG#: SGP04-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.99	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	U	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	2.9		0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.99	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	12,600		873	2,620	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	19.0		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16083002	03/27/2016 17:15	Meng Yu	1
02079	TOC	SM 5310 B modified-2000	1	16080049531B	03/21/2016 01:40	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16078820006A	03/18/2016 17:15	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 17:54

Group Number: 1641935

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/g		ng/g	ng/g
Batch number: 16083002	Sample number(s): 8291949-8291955			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16083003	Sample number(s): 8291956			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16080049531B	Sample number(s): 8291949-8291955			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16083002	Sample number(s): 8291949-8291955								
Perfluorobutanesulfonate	20	17.83			89		70-130		
Perfluorodecanoic acid	20	20			100		70-130		
Perfluorododecanoic acid	20	18.89			94		70-130		

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 17:54

Group Number: 1641935

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluoroheptanoic acid	20	21.57			108		70-130		
Perfluorohexanesulfonate	20	14.52			73		70-130		
Perfluorohexanoic acid	20	18.9			95		70-130		
Perfluorononanoic acid	20	18.73			94		70-130		
Perfluoro-octanesulfonate	20	15.06			75		70-130		
Perfluorooctanoic acid	20	18.66			93		70-130		
Perfluorotetradecanoic acid	20	22.83			114		70-130		
Perfluorotridecanoic acid	20	15.49			77		70-130		
Perfluoroundecanoic acid	20	17.32			87		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16083003	Sample number(s): 8291956								
Perfluorooctanoic acid	200	158.79	200	164.69	79	82	70-130	4	30
Perfluorononanoic acid	200	175.54	200	177.17	88	89	70-130	1	30
Perfluorodecanoic acid	200	166.19	200	185.55	83	93	70-130	11	30
Perfluoroundecanoic acid	200	154.44	200	177.82	77	89	70-130	14	30
Perfluorododecanoic acid	200	155.97	200	162.82	78	81	70-130	4	30
Perfluorotridecanoic acid	200	153.94	200	174.17	77	87	70-130	12	30
Perfluorotetradecanoic acid	200	135.77	200	161.76	68*	81	70-130	17	30
Perfluorohexanoic acid	200	167.01	200	192.63	84	96	70-130	14	30
Perfluoroheptanoic acid	200	163.32	200	174.98	82	87	70-130	7	30
Perfluorobutanesulfonate	200	154.06	200	134.09	77	67*	70-130	14	30
Perfluorohexanesulfonate	200	175.69	200	134.65	88	67*	70-130	26	30
Perfluoro-octanesulfonate	200	157.8	200	202.55	79	101	70-130	25	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16080049531B	Sample number(s): 8291949-8291955								
TOC	5430	4492.52			83		47-143		
	%	%	%	%					
Batch number: 16078820006A	Sample number(s): 8291949-8291955								
Moisture	89.5	89.43			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16083002	Sample number(s): 8291949-8291955 UNSPK: 8291949									
Perfluorobutanesulfonate	0.50 U	20	15.7	20	13.18	79	66*	70-130	17	30
Perfluorodecanoic acid	1.56	20	23.08	20	20.53	108	95	70-130	12	30
Perfluorododecanoic acid	0.569	20	20.94	20	20.78	102	101	70-130	1	30
Perfluoroheptanoic acid	0.30 U	20	24.61	20	23.65	123	118	70-130	4	30
Perfluorohexanesulfonate	0.50 U	20	23.25	20	19.66	116	98	70-130	17	30
Perfluorohexanoic acid	0.20 U	20	21.01	20	18.82	105	94	70-130	11	30
Perfluorononanoic acid	0.565	20	22.63	20	22.78	110	111	70-130	1	30
Perfluoro-octanesulfonate	2.28	20	18.69	20	25.51	82	116	70-130	31*	30
Perfluorooctanoic acid	4.03	20	22.63	20	25.71	93	108	70-130	13	30
Perfluorotetradecanoic acid	0.30 U	20	23.95	20	25.01	120	125	70-130	4	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 03/28/2016 17:54

Group Number: 1641935

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotridecanoic acid	0.60 U	20	22	20	21.93	110	110	70-130	0	30
Perfluoroundecanoic acid	0.674	20	19.92	20	22.61	96	110	70-130	13	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16080049531B	Sample number(s): 8291949-8291955 UNSPK: 8291955									
TOC	10190.95	63025	73004.2			100		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/kg	mg/kg		
Batch number: 16080049531B	Sample number(s): 8291949-8291955 BKG: 8291955			
TOC	10190.95	8322.98	20* (1)	7
	%	%		
Batch number: 16078820006A	Sample number(s): 8291949-8291955 BKG: P291314			
Moisture	15.16	15	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1641935 Sample # 8291949-56

COC # 493351

Client Information

Client: CT Male

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#: 185723

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	Moisture % & TDC	Remarks
37 Susan Taylor 0-6"	3/16/16	10:30	✓			✓							2	1	1	Lawn Area
6"-12"	3/16/16	10:45	✓			✓							2	1	1	" "
12"-18"	3/16/16	10:55	✓			✓							2	1	1	" "
~~LC 18"-24"~~	~~3/16/16~~	~~11:15~~	✓			✓							~~2~~	~~1~~	~~1~~	~~" "~~
37 Susan Taylor Garden 0-6"	3/16/16	~~11:10~~ 11:15	✓			✓							2	1	1	Garden
6"-12"	3/16/16	11:20	✓			✓							2	1	1	" ~~[illegible]~~ 26
12"-18"	3/16/16	11:29	✓			✓							2	1	1	"
18"-24"	3/16/16	11:35	✓			✓							2	1	1	"
Bowl Rinse Blank #1	3/16/16	17:44					✓						2	2		Lab Di

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 Day

E-mail address: K.moline@ctmale.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

Relinquished by	Date	Time	Received by	Date	Time
[signature]	3-11-16	1405	Larene Cameron	3-11-16	1405
Larene Cameron	3/17/16	07:33	[signature]	3/17/16	0733
			[signature]	3/18/16	0930

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 139859

Group Number(s): 1641935

Client: CT Male

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/18/2016 9:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	NaS2O4
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 10:22 on 03/18/2016

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	DT146	2.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 12, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/25/2016
Group Number: 1644163
SDG: SGP11
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
ChemFab Vent W 0" to 6" Grab Soil	8303038
ChemFab Vent W 6" to 12" Grab Soil	8303039
ChemFab Vent W 12" to 18" Grab Soil	8303040
ChemFab Vent W 18" to 24" Grab Soil	8303041
Pkng Lot W Paran Creek 0" to 6" Grab Soil	8303042
Pkng Lot W Paran Creek 6" to 12" Grab Soil	8303043
Pkng Lot W Paran Creek 12" to 18" Grab Soil	8303044
Pkng Lot W Paran Creek 18" to 24" Grab Soil	8303045
Transport Blank 334008 Blank Water	8303046

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1644163

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8303046 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16089004 (Sample number(s): 8303038-8303045 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotetradecanoic acid, Perfluoroheptanoic acid

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16090049531A (Sample number(s): 8303038-8303045 UNSPK: 8303039 BKG: 8303039)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: Pkng Lot W Paran Creek 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8303042
LL Group # 1644163
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/24/2016 10:12 by LC

Submitted: 03/25/2016 09:35
Reported: 04/12/2016 11:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1205 SDG#: SGP11-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.62	U	0.62	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.59		0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.98	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.62	U	0.62	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.27	J	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.2	J	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	0.37	U	0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.48	J	0.37	0.98	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.58	J	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	15,900		573	1,720	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.7		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16089004	04/10/2016 05:49	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16090049531A	03/30/2016 13:49	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16085820003A	03/25/2016 19:28	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pkng Lot W Paran Creek 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8303043
LL Group # 1644163
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/24/2016 10:26 by LC

Submitted: 03/25/2016 09:35
Reported: 04/12/2016 11:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1206 SDG#: SGP11-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.64	U	0.64	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.77		0.25	0.51	1
14027	Perfluorododecanoic acid	307-55-1	0.51	U	0.51	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.76	1
14027	Perfluorohexanesulfonate	355-46-4	0.64	U	0.64	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.51	1
14027	Perfluorononanoic acid	375-95-1	0.26	J	0.25	0.51	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.2	J	0.89	2.0	1
14027	Perfluorooctanoic acid	335-67-1	1.3		0.38	0.76	1
14027	Perfluorotetradecanoic acid	376-06-7	0.44	J	0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.76	U	0.76	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.46	J	0.38	0.76	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	13,200		618	1,850	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	21.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16089004	04/10/2016 06:07	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16090049531A	03/30/2016 14:05	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16085820003A	03/25/2016 19:28	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pkng Lot W Paran Creek 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8303044
LL Group # 1644163
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/24/2016 10:38 by LC

Submitted: 03/25/2016 09:35
Reported: 04/12/2016 11:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1207 SDG#: SGP11-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	0.46	U	0.46	0.91	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.80	U	0.80	1.8	1
14027	Perfluorooctanoic acid	335-67-1	0.34	U	0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	0.34	U	0.34	0.91	1
14027	Perfluorotridecanoic acid	72629-94-8	0.68	U	0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.34	U	0.34	0.68	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	3,380		280	841	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	12.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16089004	04/10/2016 06:25	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16090049531A	03/30/2016 14:20	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16085820003A	03/25/2016 19:28	Scott W Freisher	1

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

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Analysis Report

Sample Description: Pkng Lot W Paran Creek 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8303045
LL Group # 1644163
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/24/2016 10:50 by LC

Submitted: 03/25/2016 09:35
Reported: 04/12/2016 11:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1208 SDG#: SGP11-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.49	1
14027	Perfluorododecanoic acid	307-55-1	0.49	U	0.49	0.98	1
14027	Perfluoroheptanoic acid	375-85-9	0.37	U	0.37	0.74	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	U	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	0.60	J	0.37	0.74	1
14027	Perfluorotetradecanoic acid	376-06-7	0.37	U	0.37	0.98	1
14027	Perfluorotridecanoic acid	72629-94-8	0.74	U	0.74	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	0.37	U	0.37	0.74	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,820		410	1,230	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.5		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16089004	04/10/2016 07:00	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16090049531A	03/30/2016 14:36	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16085820003A	03/25/2016 19:28	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/12/2016 11:54

Group Number: 1644163

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/g		ng/g	ng/g
Batch number: 16089004	Sample number(s): 8303038-8303045			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8303046			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16090049531A	Sample number(s): 8303038-8303045			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16089004	Sample number(s): 8303038-8303045								
Perfluorobutanesulfonate	20	23.85			119		70-130		
Perfluorodecanoic acid	20	17.41			87		70-130		
Perfluorododecanoic acid	20	18.41			92		70-130		

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/12/2016 11:54

Group Number: 1644163

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluoroheptanoic acid	20	15.88			79		70-130		
Perfluorohexanesulfonate	20	17.52			88		70-130		
Perfluorohexanoic acid	20	17.65			88		70-130		
Perfluorononanoic acid	20	15.78			79		70-130		
Perfluoro-octanesulfonate	20	18.43			92		70-130		
Perfluorooctanoic acid	20	16.98			85		70-130		
Perfluorotetradecanoic acid	20	18.97			95		70-130		
Perfluorotridecanoic acid	20	15.04			75		70-130		
Perfluoroundecanoic acid	20	19.2			96		70-130		
	ng/l	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16085004	Sample number(s): 8303046								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16090049531A	Sample number(s): 8303038-8303045								
TOC	5430	4176.44			77		47-143		
	%	**%**	**%**	**%**					
Batch number: 16085820003A	Sample number(s): 8303038-8303045								
Moisture	89.5	89.44			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16089004	Sample number(s): 8303038-8303045 UNSPK: 8303038									
Perfluorobutanesulfonate	0.50 U	20	19.81	20	18.18	99	91	70-130	9	30
Perfluorodecanoic acid	0.760	20	18.27	20	16.97	88	81	70-130	7	30
Perfluorododecanoic acid	5.96	20	25.95	20	21.54	100	78	70-130	19	30
Perfluoroheptanoic acid	0.500	20	14.35	20	17.2	69*	84	70-130	18	30
Perfluorohexanesulfonate	0.50 U	20	18.14	20	18.44	91	92	70-130	2	30
Perfluorohexanoic acid	0.272	20	14.55	20	16.26	71	80	70-130	11	30
Perfluorononanoic acid	0.20 U	20	15.43	20	14.85	77	74	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	17.92	20	19.06	90	95	70-130	6	30
Perfluorooctanoic acid	16.66	20	41.11	20	32.9	122	81	70-130	22	30
Perfluorotetradecanoic acid	41.32	20	51.88	20	66.14	53*	124	70-130	24	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/12/2016 11:54

Group Number: 1644163

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotridecanoic acid	6.97	20	23.26	20	24.68	81	89	70-130	6	30
Perfluoroundecanoic acid	0.736	20	18.04	20	18.8	87	90	70-130	4	30
	ng/l	**ng/l**	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16085004	Sample number(s): 8303046 UNSPK: 8298619									
Perfluorooctanoic acid	353.46	200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77	200	212.06			100		70-130		
Perfluorodecanoic acid	4 U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24	200	217.48			105		70-130		
Perfluorododecanoic acid	10 U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8 U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10 U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4 U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94	200	220.71			94		70-130		
Perfluorobutanesulfonate	20 U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20 U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20 U	200	277.75			139*		70-130		
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16090049531A	Sample number(s): 8303038-8303045 UNSPK: 8303039									
TOC	10067.95	20450	26066.8			78		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16090049531A	Sample number(s): 8303038-8303045 BKG: 8303039			
TOC	10067.95	8830.18	13*	7
	%	**%**		
Batch number: 16085820003A	Sample number(s): 8303038-8303045 BKG: P294540			
Moisture	15.87	15.52	2	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1644163 Sample # 8303038-46

COC # 493357

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ NPDES ☐ Surface ☐ Other: ____

Analysis Requested / Preservation Codes

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	EPA 537	TOC	Moisture	EPA 537	Remarks
ChemFab Vent W 0"to 6"	3/24/16	855	X		2	X	X	X		
ChemFab Vent W 6"to 12"	3/24/16	906	X		2	X	X	X		
ChemFab Vent W 12"to 18"	3/24/16	916	X		2	X	X	X		
ChemFab Vent W 18"to 24"	3/24/16	928	X		2	X	X	X		
PKng Lot W Paran Creek 0"to 6"	3/24/16	1012	X		2	X	X	X		
PKng Lot W Paran Creek 6"to 12"	3/24/16	1026	X		2	X	X	X		
PKng Lot W Paran Creek 12"to 18"	3/24/16	1038	X		2	X	X	X		
PKng Lot W Paran Creek 18"to 24"	3/24/16	1050	X		2	X	X	X		
Transport Blank 334008	3/18/16	—	X		1				X	Lab Provided

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.moline@ctmale.com

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/24/16	1746			

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

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.0 °C

Received by: [illegible] Date 3/25/16 Time 935

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140608

Group Number(s): 164463

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/25/2016 9:35
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): Sodium Thiosulfate

Unpacked by Joseph Huber (7831) at 11:09 on 03/25/2016

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	DT121	3.1	DT	Wet	Y	Bagged	N
2	DT121	4.0	DT	Wet	Y	Bagged	N

General Comments: All samples arrived frozen.

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 14, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/24/2016
Group Number: 1643769
SDG: SGP10
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
180 River Rd 0" to 6" Grab Soil	8301012
180 River Rd 6" to 12" Grab Soil	8301013
180 River Rd 12" to 18" Grab Soil	8301014
180 River Rd 18" to 24" Grab Soil	8301015
Chemfab Along River 0" to 6" Grab Soil	8301016
Chemfab Along River 6" to 12" Grab Soil	8301017
Chemfab Along River 12" to 18" Grab Soil	8301018
Chemfab Along River 18" to 24" Grab Soil	8301019
Chemfab W Side 0" to 6" Grab Soil	8301020
Chemfab W Side 6" to 12" Grab Soil	8301021
Chemfab W Side 12" to 18" Grab Soil	8301022
Chemfab W Side 18" to 24" Grab Soil	8301023
Lake Paran 0" to 6" Grab Soil	8301024
Lake Paran 6" to 12" Grab Soil	8301025
Lake Paran 12" to 18" Grab Soil	8301026
Lake Paran 18" to 24" Grab Soil	8301027
Auger Rinse #7 Grab Blank Water	8301028
Bowl Rinse #7 Grab Blank Water	8301029
Transport Blank 032316 Blank Water	8301030
16 Wilkey Way 0" to 6" Grab Soil	8301031
16 Wilkey Way Duplicate Grab Soil	8301032
16 Wilkey Way 6" to 12" Grab Soil	8301033
16 Wilkey Way 6" to 12" MS Grab Soil	8301034
16 Wilkey Way 6" to 12" MSD Grab Soil	8301035
16 Wilkey Way 6" to 12" Dupl Grab Soil	8301036
16 Wilkey Way 12" to 18" Grab Soil	8301037
16 Wilkey Way 18" to 24" Grab Soil	8301038
Chemfab Blowdown East 0" to 6" Grab Soil	8301039
Chemfab Blowdown East 6" to 12" Grab Soil	8301040
Chemfab Blowdown East 12" to 18" Grab Soil	8301041
Chemfab Blowdown East 18" to 24" Grab Soil	8301042

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643769

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8301028-8301030 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16098007 (Sample number(s): 8301012-8301027, 8301031-8301035, 8301037 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotridecanoic acid

Batch #: 16098008 (Sample number(s): 8301038-8301042 UNSPK: 8301038)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16089049531A (Sample number(s): 8301018-8301027 UNSPK: 8301018 BKG: 8301018)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16089049531B (Sample number(s): 8301031, 8301041-8301042 UNSPK: 8301042 BKG: 8301042)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: Chemfab Along River 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301016
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 09:55 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1005 SDG#: SGP10-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.56	U	0.56	1.8	1
14027	Perfluorodecanoic acid	335-76-2	1.9		0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	3.4		0.45	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	0.56	U	0.56	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.24	J	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.79	U	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	9.1		0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	1.4		0.34	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	1.5		0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	3.2		0.34	0.68	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	17,500		801	2,400	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	11.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 12:05	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/10/2016 10:19	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631B	03/29/2016 01:53	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Chemfab Along River 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301017
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 10:03 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1006 SDG#: SGP10-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.54	U	0.54	1.7	1
14027	Perfluorodecanoic acid	335-76-2	2.1		0.22	0.44	1
14027	Perfluorododecanoic acid	307-55-1	0.74	J	0.44	0.87	1
14027	Perfluoroheptanoic acid	375-85-9	0.33	U	0.33	0.65	1
14027	Perfluorohexanesulfonate	355-46-4	0.54	U	0.54	1.7	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.44	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.44	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.0	JB	0.76	1.7	1
14027	Perfluorooctanoic acid	335-67-1	2.7		0.33	0.65	1
14027	Perfluorotetradecanoic acid	376-06-7	0.33	U	0.33	0.87	1
14027	Perfluorotridecanoic acid	72629-94-8	0.65	U	0.65	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.63	J	0.33	0.65	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	5,400		462	1,390	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	8.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 12:22	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631B	03/29/2016 02:02	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

Sample Description: Chemfab Along River 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301018
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 10:11 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1007 SDG#: SGP10-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.56	U	0.56	1.8	1
14027	Perfluorodecanoic acid	335-76-2	4.5		0.22	0.45	1
14027	Perfluorododecanoic acid	307-55-1	0.90		0.45	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	J	0.34	0.67	1
14027	Perfluorohexanesulfonate	355-46-4	0.56	U	0.56	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.2	JB	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	4.2		0.34	0.67	1
14027	Perfluorotetradecanoic acid	376-06-7	0.34	U	0.34	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	0.67	U	0.67	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.90		0.34	0.67	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	10,100		911	2,730	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	10.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 12:40	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 04:07	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Chemfab Along River 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301019
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 10:19 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1008 SDG#: SGP10-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.55	U	0.55	1.8	1
14027	Perfluorodecanoic acid	335-76-2	3.6		0.22	0.44	1
14027	Perfluorododecanoic acid	307-55-1	0.51	J	0.44	0.88	1
14027	Perfluoroheptanoic acid	375-85-9	0.33	U	0.33	0.66	1
14027	Perfluorohexanesulfonate	355-46-4	0.55	U	0.55	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.44	1
14027	Perfluorononanoic acid	375-95-1	0.26	J	0.22	0.44	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.3	JB	0.77	1.8	1
14027	Perfluorooctanoic acid	335-67-1	4.9		0.33	0.66	1
14027	Perfluorotetradecanoic acid	376-06-7	0.33	U	0.33	0.88	1
14027	Perfluorotridecanoic acid	72629-94-8	0.66	U	0.66	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.33	U	0.33	0.66	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	3,870		521	1,560	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	8.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 12:58	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 10:53	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Chemfab W Side 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301020
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 10:44 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1009 SDG#: SGP10-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.45	J	0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	4.4		0.48	0.96	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	U	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	11		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	17		0.36	0.96	1
14027	Perfluorotridecanoic acid	72629-94-8	7.4		0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.36	U	0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	13,100		782	2,350	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	16.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 13:16	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/10/2016 10:37	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 11:13	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Chemfab W Side 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301021
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 10:53 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1010 SDG#: SGP10-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.55	U	0.55	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.24	J	0.22	0.44	1
14027	Perfluorododecanoic acid	307-55-1	3.9		0.44	0.89	1
14027	Perfluoroheptanoic acid	375-85-9	0.33	U	0.33	0.67	1
14027	Perfluorohexanesulfonate	355-46-4	0.55	U	0.55	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.44	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.44	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.78	U	0.78	1.8	1
14027	Perfluorooctanoic acid	335-67-1	3.6		0.33	0.67	1
14027	Perfluorotetradecanoic acid	376-06-7	4.8		0.33	0.89	1
14027	Perfluorotridecanoic acid	72629-94-8	7.3		0.67	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.33	U	0.33	0.67	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,010		666	2,000	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	9.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 13:33	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/10/2016 10:54	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 11:28	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Chemfab W Side 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301022
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 11:02 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1011 SDG#: SGP10-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.23	U	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	13		0.46	0.92	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.69	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.81	U	0.81	1.8	1
14027	Perfluorooctanoic acid	335-67-1	3.1		0.35	0.69	1
14027	Perfluorotetradecanoic acid	376-06-7	1.6		0.35	0.92	1
14027	Perfluorotridecanoic acid	72629-94-8	4.2		0.69	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.35	U	0.35	0.69	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	2,210		251	753	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	13.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 13:51	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/10/2016 11:12	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 11:44	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: Chemfab W Side 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301023
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 11:11 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1012 SDG#: SGP10-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.63	U	0.63	2.0	1
14027	Perfluorodecanoic acid	335-76-2	0.25	U	0.25	0.50	1
14027	Perfluorododecanoic acid	307-55-1	3.2		0.50	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.38	U	0.38	0.75	1
14027	Perfluorohexanesulfonate	355-46-4	0.63	U	0.63	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.25	U	0.25	0.50	1
14027	Perfluorononanoic acid	375-95-1	0.25	U	0.25	0.50	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.88	U	0.88	2.0	1
14027	Perfluorooctanoic acid	335-67-1	4.1		0.38	0.75	1
14027	Perfluorotetradecanoic acid	376-06-7	2.3		0.38	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	2.7		0.75	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	4.7		0.38	0.75	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	1,990		226	678	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	20.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 14:09	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/10/2016 11:30	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531A	03/29/2016 12:24	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

Sample Description: Chemfab Blowdown East 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301039
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 15:00 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1025- SDG#: SGP10-25

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.58	U	0.58	1.9	1
14027	Perfluorodecanoic acid	335-76-2	1.3		0.23	0.47	1
14027	Perfluorododecanoic acid	307-55-1	5.0		0.47	0.93	1
14027	Perfluoroheptanoic acid	375-85-9	0.35	U	0.35	0.70	1
14027	Perfluorohexanesulfonate	355-46-4	0.58	U	0.58	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.82	U	0.82	1.9	1
14027	Perfluorooctanoic acid	335-67-1	20		0.35	0.70	1
14027	Perfluorotetradecanoic acid	376-06-7	25		0.35	0.93	1
14027	Perfluorotridecanoic acid	72629-94-8	15		0.70	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	1.1		0.35	0.70	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	7,090		468	1,400	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	14.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/09/2016 18:53	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/10/2016 13:16	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631A	03/28/2016 22:21	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820010B	03/25/2016 09:18	William C Schwebel	1

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

Sample Description: Chemfab Blowdown East 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301040
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 15:08 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1026- SDG#: SGP10-26

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.41	J	0.23	0.46	1
14027	Perfluorododecanoic acid	307-55-1	11		0.46	0.91	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.46	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.46	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.80	U	0.80	1.8	1
14027	Perfluorooctanoic acid	335-67-1	6.1		0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	12		0.34	0.91	1
14027	Perfluorotridecanoic acid	72629-94-8	15		0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.49	J	0.34	0.68	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	793		151	452	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	12.4		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/09/2016 19:10	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/10/2016 13:34	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631A	03/28/2016 23:17	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820010B	03/25/2016 09:18	William C Schwebel	1

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

Sample Description: Chemfab Blowdown East 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301041
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 15:15 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1027- SDG#: SGP10-27

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.56	U	0.56	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.27	J	0.22	0.45	1
14027	Perfluorododecanoic acid	307-55-1	14		0.45	0.89	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.67	1
14027	Perfluorohexanesulfonate	355-46-4	0.56	U	0.56	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.22	U	0.22	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.22	U	0.22	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.78	U	0.78	1.8	1
14027	Perfluorooctanoic acid	335-67-1	4.8		0.34	0.67	1
14027	Perfluorotetradecanoic acid	376-06-7	3.7		0.34	0.89	1
14027	Perfluorotridecanoic acid	72629-94-8	15		0.67	1.3	1
14027	Perfluoroundecanoic acid	2058-94-8	0.34	U	0.34	0.67	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	974		196	587	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	10.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/09/2016 19:28	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/10/2016 13:52	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531B	03/29/2016 21:11	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820010B	03/25/2016 09:18	William C Schwebel	1

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

Sample Description: Chemfab Blowdown East 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301042
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 15:20 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1028- SDG#: SGP10-28

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.57	U	0.57	1.8	1
14027	Perfluorodecanoic acid	335-76-2	0.54		0.23	0.45	1
14027	Perfluorododecanoic acid	307-55-1	15		0.45	0.90	1
14027	Perfluoroheptanoic acid	375-85-9	0.34	U	0.34	0.68	1
14027	Perfluorohexanesulfonate	355-46-4	0.57	U	0.57	1.8	1
14027	Perfluorohexanoic acid	307-24-4	0.23	U	0.23	0.45	1
14027	Perfluorononanoic acid	375-95-1	0.23	U	0.23	0.45	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.79	U	0.79	1.8	1
14027	Perfluorooctanoic acid	335-67-1	13		0.34	0.68	1
14027	Perfluorotetradecanoic acid	376-06-7	2.2		0.34	0.90	1
14027	Perfluorotridecanoic acid	72629-94-8	6.4		0.68	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.79		0.34	0.68	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	3,060		621	1,860	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	11.6		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/09/2016 19:49	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/10/2016 14:10	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531B	03/29/2016 21:43	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820010B	03/25/2016 09:18	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

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/g		ng/g	ng/g
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.94	J	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16098008	Sample number(s): 8301038-8301042			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8301028-8301030			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040			
TOC	100	U	100	300
Batch number: 16088949631B	Sample number(s): 8301012-8301017			
TOC	100	U	100	300
Batch number: 16089049531A	Sample number(s): 8301018-8301027			
TOC	100	U	100	300
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037								
Perfluorobutanesulfonate	20	19.73			99		70-130		
Perfluorodecanoic acid	20	17.73			89		70-130		
Perfluorododecanoic acid	20	20.72			104		70-130		
Perfluoroheptanoic acid	20	19.02			95		70-130		
Perfluorohexanesulfonate	20	16.59			83		70-130		
Perfluorohexanoic acid	20	19.41			97		70-130		
Perfluorononanoic acid	20	19.6			98		70-130		
Perfluoro-octanesulfonate	20	20.09			100		70-130		
Perfluorooctanoic acid	20	21.8			109		70-130		
Perfluorotetradecanoic acid	20	18.88			94		70-130		
Perfluorotridecanoic acid	20	20.53			103		70-130		
Perfluoroundecanoic acid	20	17.63			88		70-130		
Batch number: 16098008	Sample number(s): 8301038-8301042								
Perfluorobutanesulfonate	20	21.89			109		70-130		
Perfluorodecanoic acid	20	17.53			88		70-130		
Perfluorododecanoic acid	20	14.26			71		70-130		
Perfluoroheptanoic acid	20	21.3			106		70-130		
Perfluorohexanesulfonate	20	16.16			81		70-130		
Perfluorohexanoic acid	20	21.67			108		70-130		
Perfluorononanoic acid	20	18.8			94		70-130		
Perfluoro-octanesulfonate	20	15.23			76		70-130		
Perfluorooctanoic acid	20	19.52			98		70-130		
Perfluorotetradecanoic acid	20	18.99			95		70-130		
Perfluorotridecanoic acid	20	18.63			93		70-130		
Perfluoroundecanoic acid	20	21.2			106		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8301028-8301030								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

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
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040								
TOC	5430	5025.76			93		47-143		
Batch number: 16088949631B	Sample number(s): 8301012-8301017								
TOC	5430	5025.76			93		47-143		
Batch number: 16089049531A	Sample number(s): 8301018-8301027								
TOC	5430	4071.68			75		47-143		
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042								
TOC	5430	4071.68			75		47-143		
	%	**%**	**%**	**%**					
Batch number: 16084820009A	Sample number(s): 8301012-8301019,8301032								
Moisture	89.5	89.44			100		99-101		
Batch number: 16084820009B	Sample number(s): 8301020-8301027,8301031,8301033-8301037								
Moisture	89.5	89.44			100		99-101		
Moisture	89.5	89.44			100		99-101		
Moisture Duplicate	89.5	89.44			100		99-101		
Batch number: 16084820010B	Sample number(s): 8301038-8301042								
Moisture	89.5	89.45			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037 UNSPK: 8301033									
Perfluorobutanesulfonate	0.50 U	20	18.05	20	18.91	90	95	70-130	5	30
Perfluorodecanoic acid	0.20 U	20	18.02	20	15.8	90	79	70-130	13	30
Perfluorododecanoic acid	0.411	20	15.04	20	14.72	73	72	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	22.81	20	17.5	114	88	70-130	26	30
Perfluorohexanesulfonate	0.50 U	20	14.26	20	15.43	71	77	70-130	8	30
Perfluorohexanoic acid	0.20 U	20	17.29	20	20.88	86	104	70-130	19	30
Perfluorononanoic acid	0.250	20	21.42	20	19.28	106	95	70-130	11	30
Perfluoro-octanesulfonate	0.70 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorooctanoic acid	2.50	20	24.37	20	21.12	109	93	70-130	14	30
Perfluorotetradecanoic acid	0.30 U	20	21.78	20	16.63	109	83	70-130	27	30
Perfluorotridecanoic acid	0.60 U	20	13.3	20	16.41	67*	82	70-130	21	30
Perfluoroundecanoic acid	0.30 U	20	14.66	20	17.47	73	87	70-130	17	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16098008	Sample number(s): 8301038-8301042 UNSPK: 8301038									
Perfluorobutanesulfonate	0.50 U	20	21.39	20	18.19	107	91	70-130	16	30
Perfluorodecanoic acid	0.20 U	20	17.75	20	19.06	89	95	70-130	7	30
Perfluorododecanoic acid	0.444	20	14.56	20	15.26	71	74	70-130	5	30
Perfluoroheptanoic acid	0.30 U	20	19.67	20	16.94	98	85	70-130	15	30
Perfluorohexanesulfonate	0.50 U	20	13.07	20	15.84	65*	79	70-130	19	30
Perfluorohexanoic acid	0.20 U	20	18.53	20	18.57	93	93	70-130	0	30
Perfluorononanoic acid	0.20 U	20	18.28	20	18.37	91	92	70-130	0	30
Perfluoro-octanesulfonate	1.07	20	13.95	20	19.52	64*	92	70-130	33*	30
Perfluorooctanoic acid	4.23	20	22.25	20	24.77	90	103	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	17.28	20	16.62	86	83	70-130	4	30
Perfluorotridecanoic acid	0.60 U	20	15.13	20	15.72	76	79	70-130	4	30
Perfluoroundecanoic acid	0.30 U	20	15.46	20	17.98	77	90	70-130	15	30
	ng/l	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8301028-8301030 UNSPK: 8298619									
Perfluorooctanoic acid	353.46	200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77	200	212.06			100		70-130		
Perfluorodecanoic acid	4 U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24	200	217.48			105		70-130		
Perfluorododecanoic acid	10 U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8 U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10 U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4 U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94	200	220.71			94		70-130		
Perfluorobutanesulfonate	20 U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20 U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20 U	200	277.75			139*		70-130		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040 UNSPK: 8301033									
TOC	11042.87	22108	34443.63			106		47-143		
Batch number: 16088949631B	Sample number(s): 8301012-8301017 UNSPK: 8301017									
TOC	4953.35	43605	55174.42			115		47-143		
Batch number: 16089049531A	Sample number(s): 8301018-8301027 UNSPK: 8301018									
TOC	9041.43	60241	70863.45			103		47-143		
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042 UNSPK: 8301042									
TOC	2707.3	29098	24548.98			75		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040 BKG: 8301033			
TOC	11042.87	10354.22	6	7

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16088949631B	Sample number(s): 8301012-8301017 BKG: 8301017			
TOC	4953.35	4680.57	6 (1)	7
Batch number: 16089049531A	Sample number(s): 8301018-8301027 BKG: 8301018			
TOC	9041.43	5388.51	51* (1)	7
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042 BKG: 8301042			
TOC	2707.3	2318.34	15* (1)	7
	%	%		
Batch number: 16084820009A	Sample number(s): 8301012-8301019,8301032 BKG: 8301032			
Moisture	28.78	28.39	1	5
Batch number: 16084820009B	Sample number(s): 8301020-8301027,8301031,8301033-8301037 BKG: 8301033, P301033			
Moisture	24.1	24.34	1	5
Moisture	24.1	24.34	1	5
Moisture Duplicate	24.1	24.34	1	5
Batch number: 16084820010B	Sample number(s): 8301038-8301042 BKG: 8301038			
Moisture	25.26	25.54	1	5

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1643769 Sample # 8301012-42

COC # 493364

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ____

Analysis Requested / Preservation Codes

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	EPA 537	TOC	Moisture	Remarks
180 River Rd 0" to 6"	3/23/16	0904	X		2	X	X	X	
180 River Rd 6" to 12"	3/23/16	0915	X		2	X	X	X	
180 River Rd 12" to 18"	3/23/16	0923	X		2	X	X	X	
180 River Rd 18" to 24"	3/23/16	0933	X		2	X	X	X	
Chemfab Along River 0" to 6"	3/23/16	0955	X		2	X	X	X	
Chemfab Along River 6" to 12"	3/23/16	1003	X		2	X	X	X	
Chemfab Along River 12" to 18"	3/23/16	1011	X		2	X	X	X	
Chemfab Along River 18" to 24"	3/23/16	1019	X		2	X	X	X	
Chemfab W. Side 0" to 6"	3/23/16	1044	X		2	X	X	X	
Chemfab W. Side 6" to 12"	3/23/16	1053	X		2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx x Other ____

Temperature upon receipt 2.6-3.4 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1643769 Sample # 8301012-42

COC # 493466

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil (Sediment ☐)	Water: Potable ☐ Ground ☐ Surface ☐ NPDES ☐	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
Preservation Codes												O							
Chemfab W Side 12" to 18"	3/23/16	1102	X		X			2	X	X	X								
Chemfab W Side 18" to 24"	3/23/16	1111	X		X			2	X	X	X								
Lake Paran 0" to 6"	3/23/16	1147	X		X			2	X	X	X								
Lake Paran 6" to 12"	3/23/16	1202	X		X			2	X	X	X								
Lake Paran 12" to 18"	3/23/16	1212	X		X			2	X	X	X								
Lake Paran 18" to 24"	3/23/16	1218	X		X			2	X	X	X								
Auger Rinse #7	3/23/16	1220	X			X		2				X							Lab DI Water
Bowl Rinse #7	3/23/16	1222	X			X		2				X							Lab DI Water
Transport Blank 032316	3/16/16	—	X			X		1				X							Lab supplied
16 Wilkey Way 0" to 6"	3/23/16	1344	X		X			2	X	X	X								

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day per bid

E-mail address: K.Moline@CTMale.com

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			

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

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.6-7.9 °C

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1643169 Sample # 8301012-42

COC # 493460

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
16 Wilkey Way Duplicate	3/23/16	1348	X			X							1	X	~~X~~		
16 Wilkey Way 6" to 12"	3/23/16	1351	X			X							4	X	X	X	MS/MSD here
16 Wilkey Way 12" to 18"	3/23/16	1357	X			X							2	X	X	X	
16 Wilkey Way 18" to 24"	3/23/16	1405	X			X							2	X	X	X	
Chemfab Blowdown East 0" to 6"	3/23/16	1500	X			X							2	X	X	X	
Chemfab Blowdown East 6" to 12"	3/23/16	1508	X			X							2	X	X	X	
Chemfab Blowdown East 12" to 18"	3/23/16	1515	X			X							2	X	X	X	
Chemfab Blowdown East 18" to 24"	3/23/16	1520	X			X							2	X	X	X	

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			
				3.24.16	945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx X Other

Temperature upon receipt 2.6-2.9 °C

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140454

Group Number(s): 1643769

Client: C.T. Male Assoc.

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/24/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	No	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 11:23 on 03/24/2016

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	3.9	DT	Wet	Y	Bagged	N
2	DT131	2.6	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
180 River Rd 6" to 12"	4.5 oz.plastic cup w/screw lid - None	1	N	Jar broken.

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Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 12, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/25/2016
Group Number: 1644163
SDG: SGP11
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
ChemFab Vent W 0" to 6" Grab Soil	8303038
ChemFab Vent W 6" to 12" Grab Soil	8303039
ChemFab Vent W 12" to 18" Grab Soil	8303040
ChemFab Vent W 18" to 24" Grab Soil	8303041
Pkng Lot W Paran Creek 0" to 6" Grab Soil	8303042
Pkng Lot W Paran Creek 6" to 12" Grab Soil	8303043
Pkng Lot W Paran Creek 12" to 18" Grab Soil	8303044
Pkng Lot W Paran Creek 18" to 24" Grab Soil	8303045
Transport Blank 334008 Blank Water	8303046

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1644163

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8303046 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16089004 (Sample number(s): 8303038-8303045 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotetradecanoic acid, Perfluoroheptanoic acid

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16090049531A (Sample number(s): 8303038-8303045 UNSPK: 8303039 BKG: 8303039)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

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Analysis Report

Sample Description: ChemFab Vent W 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8303038
LL Group # 1644163
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/24/2016 08:55 by LC

Submitted: 03/25/2016 09:35
Reported: 04/12/2016 11:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1201 SDG#: SGP11-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	0.89		0.24	0.47	1
14027	Perfluorododecanoic acid	307-55-1	7.0		0.47	0.94	1
14027	Perfluoroheptanoic acid	375-85-9	0.59	J	0.35	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.32	J	0.24	0.47	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.47	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.82	U	0.82	1.9	1
14027	Perfluorooctanoic acid	335-67-1	20		0.35	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	49		0.35	0.94	1
14027	Perfluorotridecanoic acid	72629-94-8	8.2		0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	0.86		0.35	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	10,400		462	1,390	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	14.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16089004	04/10/2016 04:03	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16090049531A	03/30/2016 11:07	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16085820003A	03/25/2016 19:28	Scott W Freisher	1

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

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Analysis Report

Sample Description: ChemFab Vent W 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8303039
LL Group # 1644163
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/24/2016 09:06 by LC

Submitted: 03/25/2016 09:35
Reported: 04/12/2016 11:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1202 SDG#: SGP11-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.60	U	0.60	1.9	1
14027	Perfluorodecanoic acid	335-76-2	1.1		0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	15		0.48	0.97	1
14027	Perfluoroheptanoic acid	375-85-9	0.51	J	0.36	0.72	1
14027	Perfluorohexanesulfonate	355-46-4	0.60	U	0.60	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.26	J	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	J	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.84	U	0.84	1.9	1
14027	Perfluorooctanoic acid	335-67-1	11		0.36	0.72	1
14027	Perfluorotetradecanoic acid	376-06-7	23		0.36	0.97	1
14027	Perfluorotridecanoic acid	72629-94-8	7.1		0.72	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	2.9		0.36	0.72	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	12,100		228	684	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	17.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16089004	04/10/2016 04:56	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16090049531A	03/30/2016 15:22	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16085820003A	03/25/2016 19:28	Scott W Freisher	1

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

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Analysis Report

Sample Description: ChemFab Vent W 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8303040
LL Group # 1644163
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/24/2016 09:16 by LC

Submitted: 03/25/2016 09:35
Reported: 04/12/2016 11:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1203 SDG#: SGP11-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.59	U	0.59	1.9	1
14027	Perfluorodecanoic acid	335-76-2	1.3		0.24	0.48	1
14027	Perfluorododecanoic acid	307-55-1	31		0.48	0.95	1
14027	Perfluoroheptanoic acid	375-85-9	0.36	J	0.36	0.71	1
14027	Perfluorohexanesulfonate	355-46-4	0.59	U	0.59	1.9	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.48	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.48	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.83	U	0.83	1.9	1
14027	Perfluorooctanoic acid	335-67-1	10		0.36	0.71	1
14027	Perfluorotetradecanoic acid	376-06-7	6.9		0.36	0.95	1
14027	Perfluorotridecanoic acid	72629-94-8	5.7		0.71	1.4	1
14027	Perfluoroundecanoic acid	2058-94-8	9.4		0.36	0.71	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,500		543	1,630	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	15.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16089004	04/10/2016 05:14	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16090049531A	03/30/2016 12:46	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16085820003A	03/25/2016 19:28	Scott W Freisher	1

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

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Analysis Report

Sample Description: ChemFab Vent W 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8303041
LL Group # 1644163
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/24/2016 09:28 by LC

Submitted: 03/25/2016 09:35
Reported: 04/12/2016 11:54

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

P1204 SDG#: SGP11-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.61	U	0.61	2.0	1
14027	Perfluorodecanoic acid	335-76-2	1.0		0.24	0.49	1
14027	Perfluorododecanoic acid	307-55-1	42		0.49	0.98	1
14027	Perfluoroheptanoic acid	375-85-9	0.43	J	0.37	0.73	1
14027	Perfluorohexanesulfonate	355-46-4	0.61	U	0.61	2.0	1
14027	Perfluorohexanoic acid	307-24-4	0.24	U	0.24	0.49	1
14027	Perfluorononanoic acid	375-95-1	0.24	U	0.24	0.49	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.86	U	0.86	2.0	1
14027	Perfluorooctanoic acid	335-67-1	12		0.37	0.73	1
14027	Perfluorotetradecanoic acid	376-06-7	5.7		0.37	0.98	1
14027	Perfluorotridecanoic acid	72629-94-8	5.0		0.73	1.5	1
14027	Perfluoroundecanoic acid	2058-94-8	3.9		0.37	0.73	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	16,400		411	1,230	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	18.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16089004	04/10/2016 05:31	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16090049531A	03/30/2016 13:03	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16085820003A	03/25/2016 19:28	Scott W Freisher	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/12/2016 11:54

Group Number: 1644163

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/g		ng/g	ng/g
Batch number: 16089004	Sample number(s): 8303038-8303045			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8303046			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg
Batch number: 16090049531A	Sample number(s): 8303038-8303045			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16089004	Sample number(s): 8303038-8303045								
Perfluorobutanesulfonate	20	23.85			119		70-130		
Perfluorodecanoic acid	20	17.41			87		70-130		
Perfluorododecanoic acid	20	18.41			92		70-130		

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/12/2016 11:54

Group Number: 1644163

Analysis Name	LCS Spike Added ng/g	LCS Conc ng/g	LCSD Spike Added ng/g	LCSD Conc ng/g	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluoroheptanoic acid	20	15.88			79		70-130		
Perfluorohexanesulfonate	20	17.52			88		70-130		
Perfluorohexanoic acid	20	17.65			88		70-130		
Perfluorononanoic acid	20	15.78			79		70-130		
Perfluoro-octanesulfonate	20	18.43			92		70-130		
Perfluorooctanoic acid	20	16.98			85		70-130		
Perfluorotetradecanoic acid	20	18.97			95		70-130		
Perfluorotridecanoic acid	20	15.04			75		70-130		
Perfluoroundecanoic acid	20	19.2			96		70-130		
	ng/l	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16085004	Sample number(s): 8303046								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16090049531A	Sample number(s): 8303038-8303045								
TOC	5430	4176.44			77		47-143		
	%	**%**	**%**	**%**					
Batch number: 16085820003A	Sample number(s): 8303038-8303045								
Moisture	89.5	89.44			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16089004	Sample number(s): 8303038-8303045 UNSPK: 8303038									
Perfluorobutanesulfonate	0.50 U	20	19.81	20	18.18	99	91	70-130	9	30
Perfluorodecanoic acid	0.760	20	18.27	20	16.97	88	81	70-130	7	30
Perfluorododecanoic acid	5.96	20	25.95	20	21.54	100	78	70-130	19	30
Perfluoroheptanoic acid	0.500	20	14.35	20	17.2	69*	84	70-130	18	30
Perfluorohexanesulfonate	0.50 U	20	18.14	20	18.44	91	92	70-130	2	30
Perfluorohexanoic acid	0.272	20	14.55	20	16.26	71	80	70-130	11	30
Perfluorononanoic acid	0.20 U	20	15.43	20	14.85	77	74	70-130	4	30
Perfluoro-octanesulfonate	0.70 U	20	17.92	20	19.06	90	95	70-130	6	30
Perfluorooctanoic acid	16.66	20	41.11	20	32.9	122	81	70-130	22	30
Perfluorotetradecanoic acid	41.32	20	51.88	20	66.14	53*	124	70-130	24	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/12/2016 11:54

Group Number: 1644163

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluorotridecanoic acid	6.97	20	23.26	20	24.68	81	89	70-130	6	30
Perfluoroundecanoic acid	0.736	20	18.04	20	18.8	87	90	70-130	4	30
	ng/l	**ng/l**	**ng/l**	**ng/l**	**ng/l**					
Batch number: 16085004	Sample number(s): 8303046 UNSPK: 8298619									
Perfluorooctanoic acid	353.46	200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77	200	212.06			100		70-130		
Perfluorodecanoic acid	4 U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24	200	217.48			105		70-130		
Perfluorododecanoic acid	10 U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8 U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10 U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4 U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94	200	220.71			94		70-130		
Perfluorobutanesulfonate	20 U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20 U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20 U	200	277.75			139*		70-130		
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16090049531A	Sample number(s): 8303038-8303045 UNSPK: 8303039									
TOC	10067.95	20450	26066.8			78		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16090049531A	Sample number(s): 8303038-8303045 BKG: 8303039			
TOC	10067.95	8830.18	13*	7
	%	**%**		
Batch number: 16085820003A	Sample number(s): 8303038-8303045 BKG: P294540			
Moisture	15.87	15.52	2	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 37191 Group # 1644163 Sample # 8303038-46

COC # 493357

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ NPDES ☐ Surface ☐ Other: ____

Analysis Requested / Preservation Codes

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	EPA 537	TOC	Moisture	EPA 537	Remarks
ChemFab Vent W 0"to 6"	3/24/16	855	X		2	X	X	X		
ChemFab Vent W 6"to 12"	3/24/16	906	X		2	X	X	X		
ChemFab Vent W 12"to 18"	3/24/16	916	X		2	X	X	X		
ChemFab Vent W 18"to 24"	3/24/16	928	X		2	X	X	X		
PKng Lot W Paran Creek 0"to 6"	3/24/16	1012	X		2	X	X	X		
PKng Lot W Paran Creek 6"to 12"	3/24/16	1026	X		2	X	X	X		
PKng Lot W Paran Creek 12"to 18"	3/24/16	1038	X		2	X	X	X		
PKng Lot W Paran Creek 18"to 24"	3/24/16	1050	X		2	X	X	X		
Transport Blank 334008	3/18/16	—	X		1				X	Lab Provided

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.moline@ctmale.com

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/24/16	1746			

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

EDD Required? Yes No

If yes, format: ____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 3.1-4.0 °C

Received by: [illegible] Date 3/25/16 Time 935

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140608

Group Number(s): 164463

Client: C.T. Male Associates

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/25/2016 9:35
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): Sodium Thiosulfate

Unpacked by Joseph Huber (7831) at 11:09 on 03/25/2016

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	DT121	3.1	DT	Wet	Y	Bagged	N
2	DT121	4.0	DT	Wet	Y	Bagged	N

General Comments: All samples arrived frozen.

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 14, 2016

Project: N. Bennington Soil Sampling

Submittal Date: 03/24/2016
Group Number: 1643769
SDG: SGP10
PO Number: 16.6131
State of Sample Origin: VT

Client Sample Description	Lancaster Labs (LL) #
180 River Rd 0" to 6" Grab Soil	8301012
180 River Rd 6" to 12" Grab Soil	8301013
180 River Rd 12" to 18" Grab Soil	8301014
180 River Rd 18" to 24" Grab Soil	8301015
Chemfab Along River 0" to 6" Grab Soil	8301016
Chemfab Along River 6" to 12" Grab Soil	8301017
Chemfab Along River 12" to 18" Grab Soil	8301018
Chemfab Along River 18" to 24" Grab Soil	8301019
Chemfab W Side 0" to 6" Grab Soil	8301020
Chemfab W Side 6" to 12" Grab Soil	8301021
Chemfab W Side 12" to 18" Grab Soil	8301022
Chemfab W Side 18" to 24" Grab Soil	8301023
Lake Paran 0" to 6" Grab Soil	8301024
Lake Paran 6" to 12" Grab Soil	8301025
Lake Paran 12" to 18" Grab Soil	8301026
Lake Paran 18" to 24" Grab Soil	8301027
Auger Rinse #7 Grab Blank Water	8301028
Bowl Rinse #7 Grab Blank Water	8301029
Transport Blank 032316 Blank Water	8301030
16 Wilkey Way 0" to 6" Grab Soil	8301031
16 Wilkey Way Duplicate Grab Soil	8301032
16 Wilkey Way 6" to 12" Grab Soil	8301033
16 Wilkey Way 6" to 12" MS Grab Soil	8301034
16 Wilkey Way 6" to 12" MSD Grab Soil	8301035
16 Wilkey Way 6" to 12" Dupl Grab Soil	8301036
16 Wilkey Way 12" to 18" Grab Soil	8301037
16 Wilkey Way 18" to 24" Grab Soil	8301038
Chemfab Blowdown East 0" to 6" Grab Soil	8301039
Chemfab Blowdown East 6" to 12" Grab Soil	8301040
Chemfab Blowdown East 12" to 18" Grab Soil	8301041
Chemfab Blowdown East 18" to 24" Grab Soil	8301042

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Project Name: N. Bennington Soil Sampling
LL Group #: 1643769

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

EPA 537 Rev. 1.1 modified, Misc. Organics

Batch #: 16085004 (Sample number(s): 8301028-8301030 UNSPK: MS)

The relative percent difference(s) for the following analyte(s) in the LCS/LCSD were outside acceptance windows: Perfluorohexanesulfonate

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Perfluorooctanoic acid, Perfluorotetradecanoic acid, Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

Batch #: 16098007 (Sample number(s): 8301012-8301027, 8301031-8301035, 8301037 UNSPK: MS)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorotridecanoic acid

Batch #: 16098008 (Sample number(s): 8301038-8301042 UNSPK: 8301038)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Perfluorohexanesulfonate, Perfluoro-octanesulfonate

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Perfluoro-octanesulfonate

SM 5310 B modified-2000, Wet Chemistry

Batch #: 16089049531A (Sample number(s): 8301018-8301027 UNSPK: 8301018 BKG: 8301018)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Batch #: 16089049531B (Sample number(s): 8301031, 8301041-8301042 UNSPK: 8301042 BKG: 8301042)

The duplicate RPD for the following analyte(s) exceeded the acceptance window: TOC Solids/Sludges Combustion

Sample Description: 16 Wilkey Way 0" to 6" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301031
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 13:44 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1020- SDG#: SGP10-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.71	U	0.71	2.3	1
14027	Perfluorodecanoic acid	335-76-2	0.62		0.28	0.56	1
14027	Perfluorododecanoic acid	307-55-1	0.72	J	0.56	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.42	U	0.42	0.85	1
14027	Perfluorohexanesulfonate	355-46-4	0.71	U	0.71	2.3	1
14027	Perfluorohexanoic acid	307-24-4	0.28	U	0.28	0.56	1
14027	Perfluorononanoic acid	375-95-1	0.28	U	0.28	0.56	1
14027	Perfluoro-octanesulfonate	1763-23-1	2.0	JB	0.99	2.3	1
14027	Perfluorooctanoic acid	335-67-1	2.9		0.42	0.85	1
14027	Perfluorotetradecanoic acid	376-06-7	0.42	U	0.42	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.95	J	0.85	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.42	U	0.42	0.85	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	25,900		1,380	4,140	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	29.2		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 15:56	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16089049531B	03/29/2016 13:45	Clinton M Wilson	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 16 Wilkey Way Duplicate Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301032
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 13:48 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1021D SDG#: SGP10-21FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.70	U	0.70	2.2	1
14027	Perfluorodecanoic acid	335-76-2	0.68		0.28	0.56	1
14027	Perfluorododecanoic acid	307-55-1	0.74	J	0.56	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.42	U	0.42	0.84	1
14027	Perfluorohexanesulfonate	355-46-4	0.70	U	0.70	2.2	1
14027	Perfluorohexanoic acid	307-24-4	0.28	U	0.28	0.56	1
14027	Perfluorononanoic acid	375-95-1	0.32	J	0.28	0.56	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.5	JB	0.98	2.2	1
14027	Perfluorooctanoic acid	335-67-1	3.1		0.42	0.84	1
14027	Perfluorotetradecanoic acid	376-06-7	0.42	U	0.42	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.84	U	0.84	1.7	1
14027	Perfluoroundecanoic acid	2058-94-8	0.42	U	0.42	0.84	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	28.8		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 16:31	Jason W Knight	1
00111	Moisture	SM 2540 G-1997	1	16084820009A	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 16 Wilkey Way 6" to 12" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301033
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 13:51 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1022Q SDG#: SGP10-22BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.66	U	0.66	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.53	1
14027	Perfluorododecanoic acid	307-55-1	0.54	J	0.53	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.40	U	0.40	0.79	1
14027	Perfluorohexanesulfonate	355-46-4	0.66	U	0.66	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.53	1
14027	Perfluorononanoic acid	375-95-1	0.33	J	0.26	0.53	1
14027	Perfluoro-octanesulfonate	1763-23-1	0.92	U	0.92	2.1	1
14027	Perfluorooctanoic acid	335-67-1	3.3		0.40	0.79	1
14027	Perfluorotetradecanoic acid	376-06-7	0.40	U	0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.79	U	0.79	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.40	U	0.40	0.79	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	14,500		401	1,200	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	24.1		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 09:43	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/10/2016 09:26	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631A	03/28/2016 21:20	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 16 Wilkey Way 6" to 12" MS Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301034
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 13:51 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1022Q SDG#: SGP10-22MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	24		0.66	2.1	1
14027	Perfluorodecanoic acid	335-76-2	24		0.26	0.53	1
14027	Perfluorododecanoic acid	307-55-1	20		0.53	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	30		0.40	0.79	1
14027	Perfluorohexanesulfonate	355-46-4	19		0.66	2.1	1
14027	Perfluorohexanoic acid	307-24-4	23		0.26	0.53	1
14027	Perfluorononanoic acid	375-95-1	28		0.26	0.53	1
14027	Perfluoro-octanesulfonate	1763-23-1	22	B	0.92	2.1	1
14027	Perfluorooctanoic acid	335-67-1	32		0.40	0.79	1
14027	Perfluorotetradecanoic acid	376-06-7	29		0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	18		0.79	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	19		0.40	0.79	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	45,400		971	2,910	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00118	Moisture	n.a.	24.1		0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 10:01	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/10/2016 09:43	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631A	03/28/2016 21:34	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 16 Wilkey Way 6" to 12" MSD Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301035
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 13:51 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1022Q SDG#: SGP10-22MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	25		0.66	2.1	1
14027	Perfluorodecanoic acid	335-76-2	21		0.26	0.53	1
14027	Perfluorododecanoic acid	307-55-1	19		0.53	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	23		0.40	0.79	1
14027	Perfluorohexanesulfonate	355-46-4	20		0.66	2.1	1
14027	Perfluorohexanoic acid	307-24-4	28		0.26	0.53	1
14027	Perfluorononanoic acid	375-95-1	25		0.26	0.53	1
14027	Perfluoro-octanesulfonate	1763-23-1	22	B	0.92	2.1	1
14027	Perfluorooctanoic acid	335-67-1	28		0.40	0.79	1
14027	Perfluorotetradecanoic acid	376-06-7	22		0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	22		0.79	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	23		0.40	0.79	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00118	Moisture	n.a.	24.1		0.50	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 10:18	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/10/2016 10:01	Jason W Knight	1
00118	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 16 Wilkey Way 6" to 12" Dupl Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301036
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 13:51 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1022Q SDG#: SGP10-22DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 5310 B modified-2000**		mg/kg	mg/kg	mg/kg	
02079	TOC	n.a.	13,600	386	1,160	1
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00118	Moisture	n.a.	24.1	0.50	0.50	1
00121	Moisture Duplicate	n.a.	24.3	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02079	TOC	SM 5310 B modified-2000	1	16088949631A	03/28/2016 21:46	James S Mathiot	1
00118	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1
00121	Moisture Duplicate	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

Sample Description: 16 Wilkey Way 12" to 18" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301037
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 13:57 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1023- SDG#: SGP10-23

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.65	U	0.65	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.26	U	0.26	0.52	1
14027	Perfluorododecanoic acid	307-55-1	0.52	U	0.52	1.0	1
14027	Perfluoroheptanoic acid	375-85-9	0.39	U	0.39	0.78	1
14027	Perfluorohexanesulfonate	355-46-4	0.65	U	0.65	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.26	U	0.26	0.52	1
14027	Perfluorononanoic acid	375-95-1	0.26	U	0.26	0.52	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.2	JB	0.91	2.1	1
14027	Perfluorooctanoic acid	335-67-1	4.6		0.39	0.78	1
14027	Perfluorotetradecanoic acid	376-06-7	0.39	U	0.39	1.0	1
14027	Perfluorotridecanoic acid	72629-94-8	0.78	U	0.78	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.39	U	0.39	0.78	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	15,400		543	1,630	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	22.9		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098007	04/09/2016 16:49	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631A	03/28/2016 21:58	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820009B	03/25/2016 09:48	William C Schwebel	1

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

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Analysis Report

Sample Description: 16 Wilkey Way 18" to 24" Grab Soil
N. Bennington Soil Sampling

LL Sample # SW 8301038
LL Group # 1643769
Account # 37191

Project Name: N. Bennington Soil Sampling

Collected: 03/23/2016 14:05 by LC

Submitted: 03/24/2016 09:45
Reported: 04/14/2016 10:50

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

1024- SDG#: SGP10-24

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Misc. Organics	**EPA 537 Rev. 1.1 modified**		**ng/g**		**ng/g**	**ng/g**	
14027	Perfluorobutanesulfonate	375-73-5	0.67	U	0.67	2.1	1
14027	Perfluorodecanoic acid	335-76-2	0.27	U	0.27	0.54	1
14027	Perfluorododecanoic acid	307-55-1	0.59	J	0.54	1.1	1
14027	Perfluoroheptanoic acid	375-85-9	0.40	U	0.40	0.80	1
14027	Perfluorohexanesulfonate	355-46-4	0.67	U	0.67	2.1	1
14027	Perfluorohexanoic acid	307-24-4	0.27	U	0.27	0.54	1
14027	Perfluorononanoic acid	375-95-1	0.27	U	0.27	0.54	1
14027	Perfluoro-octanesulfonate	1763-23-1	1.4	J	0.94	2.1	1
14027	Perfluorooctanoic acid	335-67-1	5.7		0.40	0.80	1
14027	Perfluorotetradecanoic acid	376-06-7	0.40	U	0.40	1.1	1
14027	Perfluorotridecanoic acid	72629-94-8	0.80	U	0.80	1.6	1
14027	Perfluoroundecanoic acid	2058-94-8	0.40	U	0.40	0.80	1
Wet Chemistry	**SM 5310 B modified-2000**		**mg/kg**		**mg/kg**	**mg/kg**	
02079	TOC	n.a.	6,800		455	1,370	1
Wet Chemistry	**SM 2540 G-1997**		**%**		**%**	**%**	
00111	Moisture	n.a.	25.3		0.50	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/09/2016 18:00	Jason W Knight	1
14027	Full List PFC's	EPA 537 Rev. 1.1 modified	1	16098008	04/10/2016 12:23	Jason W Knight	1
02079	TOC	SM 5310 B modified-2000	1	16088949631A	03/28/2016 22:10	James S Mathiot	1
00111	Moisture	SM 2540 G-1997	1	16084820010B	03/25/2016 09:18	William C Schwebel	1

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

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

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/g		ng/g	ng/g
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.94	J	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
Batch number: 16098008	Sample number(s): 8301038-8301042			
Perfluorobutanesulfonate	0.50	U	0.50	1.6
Perfluorodecanoic acid	0.20	U	0.20	0.40
Perfluorododecanoic acid	0.40	U	0.40	0.80
Perfluoroheptanoic acid	0.30	U	0.30	0.60
Perfluorohexanesulfonate	0.50	U	0.50	1.6
Perfluorohexanoic acid	0.20	U	0.20	0.40
Perfluorononanoic acid	0.20	U	0.20	0.40
Perfluoro-octanesulfonate	0.70	U	0.70	1.6
Perfluorooctanoic acid	0.30	U	0.30	0.60
Perfluorotetradecanoic acid	0.30	U	0.30	0.80
Perfluorotridecanoic acid	0.60	U	0.60	1.2
Perfluoroundecanoic acid	0.30	U	0.30	0.60
	ng/l		ng/l	ng/l
Batch number: 16085004	Sample number(s): 8301028-8301030			
Perfluorooctanoic acid	1	U	1	2
Perfluorononanoic acid	1	U	1	2
Perfluorodecanoic acid	1	U	1	2
Perfluoroundecanoic acid	2	U	2	4
Perfluorododecanoic acid	3	U	3	5
Perfluorotridecanoic acid	2	U	2	4
Perfluorotetradecanoic acid	3	U	3	5
Perfluorohexanoic acid	1	U	1	2
Perfluoroheptanoic acid	1	U	1	2
Perfluorobutanesulfonate	4	U	4	10
Perfluorohexanesulfonate	4	U	4	10
Perfluoro-octanesulfonate	5	U	5	10
	mg/kg		mg/kg	mg/kg

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	Result		MDL**	LOQ
	mg/kg		mg/kg	mg/kg
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040			
TOC	100	U	100	300
Batch number: 16088949631B	Sample number(s): 8301012-8301017			
TOC	100	U	100	300
Batch number: 16089049531A	Sample number(s): 8301018-8301027			
TOC	100	U	100	300
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042			
TOC	100	U	100	300

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/g	ng/g	ng/g	ng/g					
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037								
Perfluorobutanesulfonate	20	19.73			99		70-130		
Perfluorodecanoic acid	20	17.73			89		70-130		
Perfluorododecanoic acid	20	20.72			104		70-130		
Perfluoroheptanoic acid	20	19.02			95		70-130		
Perfluorohexanesulfonate	20	16.59			83		70-130		
Perfluorohexanoic acid	20	19.41			97		70-130		
Perfluorononanoic acid	20	19.6			98		70-130		
Perfluoro-octanesulfonate	20	20.09			100		70-130		
Perfluorooctanoic acid	20	21.8			109		70-130		
Perfluorotetradecanoic acid	20	18.88			94		70-130		
Perfluorotridecanoic acid	20	20.53			103		70-130		
Perfluoroundecanoic acid	20	17.63			88		70-130		
Batch number: 16098008	Sample number(s): 8301038-8301042								
Perfluorobutanesulfonate	20	21.89			109		70-130		
Perfluorodecanoic acid	20	17.53			88		70-130		
Perfluorododecanoic acid	20	14.26			71		70-130		
Perfluoroheptanoic acid	20	21.3			106		70-130		
Perfluorohexanesulfonate	20	16.16			81		70-130		
Perfluorohexanoic acid	20	21.67			108		70-130		
Perfluorononanoic acid	20	18.8			94		70-130		
Perfluoro-octanesulfonate	20	15.23			76		70-130		
Perfluorooctanoic acid	20	19.52			98		70-130		
Perfluorotetradecanoic acid	20	18.99			95		70-130		
Perfluorotridecanoic acid	20	18.63			93		70-130		
Perfluoroundecanoic acid	20	21.2			106		70-130		
	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8301028-8301030								
Perfluorooctanoic acid	200	187.69	200	208.39	94	104	70-130	10	30
Perfluorononanoic acid	200	180.81	200	225.92	90	113	70-130	22	30
Perfluorodecanoic acid	200	216.97	200	234.99	108	117	70-130	8	30
Perfluoroundecanoic acid	200	199.88	200	208.01	100	104	70-130	4	30
Perfluorododecanoic acid	200	216.91	200	236.94	108	118	70-130	9	30
Perfluorotridecanoic acid	200	209.67	200	257.49	105	129	70-130	20	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

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
Perfluorotetradecanoic acid	200	194.48	200	228.2	97	114	70-130	16	30
Perfluorohexanoic acid	200	179.57	200	206.29	90	103	70-130	14	30
Perfluoroheptanoic acid	200	193.13	200	221.2	97	111	70-130	14	30
Perfluorobutanesulfonate	200	143.28	200	144.13	72	72	70-130	1	30
Perfluorohexanesulfonate	200	179.57	200	248.43	90	124	70-130	32*	30
Perfluoro-octanesulfonate	200	152.32	200	187.87	76	94	70-130	21	30
	mg/kg	**mg/kg**	**mg/kg**	**mg/kg**					
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040								
TOC	5430	5025.76			93		47-143		
Batch number: 16088949631B	Sample number(s): 8301012-8301017								
TOC	5430	5025.76			93		47-143		
Batch number: 16089049531A	Sample number(s): 8301018-8301027								
TOC	5430	4071.68			75		47-143		
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042								
TOC	5430	4071.68			75		47-143		
	%	**%**	**%**	**%**					
Batch number: 16084820009A	Sample number(s): 8301012-8301019,8301032								
Moisture	89.5	89.44			100		99-101		
Batch number: 16084820009B	Sample number(s): 8301020-8301027,8301031,8301033-8301037								
Moisture	89.5	89.44			100		99-101		
Moisture	89.5	89.44			100		99-101		
Moisture Duplicate	89.5	89.44			100		99-101		
Batch number: 16084820010B	Sample number(s): 8301038-8301042								
Moisture	89.5	89.45			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16098007	Sample number(s): 8301012-8301027,8301031-8301035,8301037 UNSPK: 8301033									
Perfluorobutanesulfonate	0.50 U	20	18.05	20	18.91	90	95	70-130	5	30
Perfluorodecanoic acid	0.20 U	20	18.02	20	15.8	90	79	70-130	13	30
Perfluorododecanoic acid	0.411	20	15.04	20	14.72	73	72	70-130	2	30
Perfluoroheptanoic acid	0.30 U	20	22.81	20	17.5	114	88	70-130	26	30
Perfluorohexanesulfonate	0.50 U	20	14.26	20	15.43	71	77	70-130	8	30
Perfluorohexanoic acid	0.20 U	20	17.29	20	20.88	86	104	70-130	19	30
Perfluorononanoic acid	0.250	20	21.42	20	19.28	106	95	70-130	11	30
Perfluoro-octanesulfonate	0.70 U	20	16.91	20	16.34	85	82	70-130	3	30
Perfluorooctanoic acid	2.50	20	24.37	20	21.12	109	93	70-130	14	30
Perfluorotetradecanoic acid	0.30 U	20	21.78	20	16.63	109	83	70-130	27	30
Perfluorotridecanoic acid	0.60 U	20	13.3	20	16.41	67*	82	70-130	21	30
Perfluoroundecanoic acid	0.30 U	20	14.66	20	17.47	73	87	70-130	17	30

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	Unspiked Conc ng/g	MS Spike Added ng/g	MS Conc ng/g	MSD Spike Added ng/g	MSD Conc ng/g	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16098008	Sample number(s): 8301038-8301042 UNSPK: 8301038									
Perfluorobutanesulfonate	0.50 U	20	21.39	20	18.19	107	91	70-130	16	30
Perfluorodecanoic acid	0.20 U	20	17.75	20	19.06	89	95	70-130	7	30
Perfluorododecanoic acid	0.444	20	14.56	20	15.26	71	74	70-130	5	30
Perfluoroheptanoic acid	0.30 U	20	19.67	20	16.94	98	85	70-130	15	30
Perfluorohexanesulfonate	0.50 U	20	13.07	20	15.84	65*	79	70-130	19	30
Perfluorohexanoic acid	0.20 U	20	18.53	20	18.57	93	93	70-130	0	30
Perfluorononanoic acid	0.20 U	20	18.28	20	18.37	91	92	70-130	0	30
Perfluoro-octanesulfonate	1.07	20	13.95	20	19.52	64*	92	70-130	33*	30
Perfluorooctanoic acid	4.23	20	22.25	20	24.77	90	103	70-130	11	30
Perfluorotetradecanoic acid	0.30 U	20	17.28	20	16.62	86	83	70-130	4	30
Perfluorotridecanoic acid	0.60 U	20	15.13	20	15.72	76	79	70-130	4	30
Perfluoroundecanoic acid	0.30 U	20	15.46	20	17.98	77	90	70-130	15	30
	ng/l	ng/l	ng/l	ng/l	ng/l					
Batch number: 16085004	Sample number(s): 8301028-8301030 UNSPK: 8298619									
Perfluorooctanoic acid	353.46	200	264.76			-43*		70-130		
Perfluorononanoic acid	11.77	200	212.06			100		70-130		
Perfluorodecanoic acid	4 U	200	202.02			101		70-130		
Perfluoroundecanoic acid	7.24	200	217.48			105		70-130		
Perfluorododecanoic acid	10 U	200	196.94			98		70-130		
Perfluorotridecanoic acid	8 U	200	175.4			88		70-130		
Perfluorotetradecanoic acid	10 U	200	124.3			62*		70-130		
Perfluorohexanoic acid	4 U	200	283.38			142*		70-130		
Perfluoroheptanoic acid	32.94	200	220.71			94		70-130		
Perfluorobutanesulfonate	20 U	200	142.26			71		70-130		
Perfluorohexanesulfonate	20 U	200	402			201*		70-130		
Perfluoro-octanesulfonate	20 U	200	277.75			139*		70-130		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040 UNSPK: 8301033									
TOC	11042.87	22108	34443.63			106		47-143		
Batch number: 16088949631B	Sample number(s): 8301012-8301017 UNSPK: 8301017									
TOC	4953.35	43605	55174.42			115		47-143		
Batch number: 16089049531A	Sample number(s): 8301018-8301027 UNSPK: 8301018									
TOC	9041.43	60241	70863.45			103		47-143		
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042 UNSPK: 8301042									
TOC	2707.3	29098	24548.98			75		47-143		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16088949631A	Sample number(s): 8301033-8301034,8301036-8301040 BKG: 8301033			
TOC	11042.87	10354.22	6	7

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/14/2016 10:50

Group Number: 1643769

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 16088949631B	Sample number(s): 8301012-8301017 BKG: 8301017			
TOC	4953.35	4680.57	6 (1)	7
Batch number: 16089049531A	Sample number(s): 8301018-8301027 BKG: 8301018			
TOC	9041.43	5388.51	51* (1)	7
Batch number: 16089049531B	Sample number(s): 8301031,8301041-8301042 BKG: 8301042			
TOC	2707.3	2318.34	15* (1)	7
	%	%		
Batch number: 16084820009A	Sample number(s): 8301012-8301019,8301032 BKG: 8301032			
Moisture	28.78	28.39	1	5
Batch number: 16084820009B	Sample number(s): 8301020-8301027,8301031,8301033-8301037 BKG: 8301033, P301033			
Moisture	24.1	24.34	1	5
Moisture	24.1	24.34	1	5
Moisture Duplicate	24.1	24.34	1	5
Batch number: 16084820010B	Sample number(s): 8301038-8301042 BKG: 8301038			
Moisture	25.26	25.54	1	5

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643769 Sample # 8301012-42

COC # 493364

Client Information

Client: C.T. Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

Matrix

Sediment ☐ Soil ☒ Water: Ground ☐ Potable ☐ Surface ☐ NPDES ☐ Other: ____

Analysis Requested / Preservation Codes

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Total # of Containers	EPA 537	TOC	Moisture	Remarks
180 River Rd 0" to 6"	3/23/16	0904	X		2	X	X	X	
180 River Rd 6" to 12"	3/23/16	0915	X		2	X	X	X	
180 River Rd 12" to 18"	3/23/16	0923	X		2	X	X	X	
180 River Rd 18" to 24"	3/23/16	0933	X		2	X	X	X	
Chemfab Along River 0" to 6"	3/23/16	0955	X		2	X	X	X	
Chemfab Along River 6" to 12"	3/23/16	1003	X		2	X	X	X	
Chemfab Along River 12" to 18"	3/23/16	1011	X		2	X	X	X	
Chemfab Along River 18" to 24"	3/23/16	1019	X		2	X	X	X	
Chemfab W. Side 0" to 6"	3/23/16	1044	X		2	X	X	X	
Chemfab W. Side 6" to 12"	3/23/16	1053	X		2	X	X	X	

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS ____ FedEx x Other ____

Temperature upon receipt 2.6-3.4 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643769 Sample # 8301012-42

COC # 493466

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Matrix: Soil (Sediment ☐)	Water: Potable ☐ Ground ☐ Surface ☐ NPDES ☐	Other:	Total # of Containers	EPA 537	TOC	Moisture	EPA 537							Remarks
Preservation Codes												O							
Chemfab W Side 12" to 18"	3/23/16	1102	X		X			2	X	X	X								
Chemfab W Side 18" to 24"	3/23/16	1111	X		X			2	X	X	X								
Lake Paran 0" to 6"	3/23/16	1147	X		X			2	X	X	X								
Lake Paran 6" to 12"	3/23/16	1202	X		X			2	X	X	X								
Lake Paran 12" to 18"	3/23/16	1212	X		X			2	X	X	X								
Lake Paran 18" to 24"	3/23/16	1218	X		X			2	X	X	X								
Auger Rinse #7	3/23/16	1220	X			X		2				X							Lab DI Water
Bowl Rinse #7	3/23/16	1222	X			X		2				X							Lab DI Water
Transport Blank 032316	3/16/16	—	X			X		1				X							Lab supplied
16 Wilkey Way 0" to 6"	3/23/16	1344	X		X			2	X	X	X								

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day per bid

E-mail address: K.Moline@CTMale.com

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			

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

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS ____ FedEx X Other ____

Temperature upon receipt 2.6-7.9 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

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Acct. # 37191 Group # 1643169 Sample # 8301012-42

COC # 493460

Client Information

Client: CT Male Associates

Acct. #:

Project Name/#: N. Bennington Soil Sampling

PWSID #:

Project Manager: Kirk Moline

P.O. #: 16.6131

Sampler: Larene Cameron

Quote #:

State where samples were collected: VT

For Compliance: Yes ☐ No ☐

For Lab Use Only

FSC:

SCR#:

Sample Identification	Collected Date	Collected Time	Grab	Composite	Sediment	Soil ☒	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	EPA 537	TOC	Moisture	Remarks
16 Wilkey Way Duplicate	3/23/16	1348	X			X							1	X	~~X~~		
16 Wilkey Way 6" to 12"	3/23/16	1351	X			X							4	X	X	X	MS/MSD here
16 Wilkey Way 12" to 18"	3/23/16	1357	X			X							2	X	X	X	
16 Wilkey Way 18" to 24"	3/23/16	1405	X			X							2	X	X	X	
Chemfab Blowdown East 0" to 6"	3/23/16	1500	X			X							2	X	X	X	
Chemfab Blowdown East 6" to 12"	3/23/16	1508	X			X							2	X	X	X	
Chemfab Blowdown East 12" to 18"	3/23/16	1515	X			X							2	X	X	X	
Chemfab Blowdown East 18" to 24"	3/23/16	1520	X			X							2	X	X	X	

Preservation Codes

H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Turnaround Time (TAT) Requested (please circle)

Standard Rush

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

Date results are needed: 3 day verbal

E-mail address: K.Moline@CTMale.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

Relinquished by	Date	Time	Received by	Date	Time
Larene Cameron	3/23/16	1648			
				3.24.16	945

EDD Required? Yes No

If yes, format:

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier: UPS FedEx X Other

Temperature upon receipt 2.6-2.9 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 1115

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Sample Administration Receipt Documentation Log

Doc Log ID: 140454

Group Number(s): 1643769

Client: C.T. Male Assoc.

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/24/2016 9:45
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	VT		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	1
Paperwork Enclosed:	Yes	Trip Blank Type:	Na2S2O3
Samples Intact:	No	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Timothy Cubberley (6520) at 11:23 on 03/24/2016

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	3.9	DT	Wet	Y	Bagged	N
2	DT131	2.6	DT	Wet	Y	Bagged	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
180 River Rd 6" to 12"	4.5 oz.plastic cup w/screw lid - None	1	N	Jar broken.

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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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.

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