



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

Mayor Brian P. Sullivan
59 Court Street - Room 202
Westfield, MA 01085

June 13, 2017

RE: MassDEP Private Well Sampling- PFCs
RTN: 1-20093

Dear Mayor Sullivan,

In a collaborative effort to work with both the City of Westfield and the Barnes Air National Guard, MassDEP has implemented a phased approach to investigate whether private wells have been affected by a release of perfluorinated chemicals (PFCs) to the groundwater. To date, we have sampled thirty-three (33) private wells and have issued fifty-five (55) access agreement letters. MassDEP is continuing to call individuals who have received access agreement letters to schedule sampling. As additional data is received MassDEP will review the results and adjust the sampling locations as needed. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt). All results we have received to date are summarized in a table on Page 2 of this letter.

Eighteen (18) of the private well sampling results indicate PFCs were not detected above the laboratory reporting level, which is 17 ppt. In the table these are shown as ND for Non Detect.

Three (3) of the sampling results had detections of PFCs, however, the results were well below the lifetime EPA Health Advisory of 70 ppt. MassDEP will resample the wells to confirm the results.

One (1) sample result was greater than the lifetime health advisory level. MassDEP immediately notified the homeowner and provided bottled water to the resident. MassDEP's contractor is currently working to install a point of entry carbon filtration system in the home to eliminate any health risk from drinking water. As a precaution MassDEP also supplied bottled water and sampled the two other private wells located on Lower Sandy Hill Road given they are in the immediate vicinity of the home with the exceedance.

The EPA advisory is specifically for two PFC compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid)

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

which together or individually exceed 70 ppt. The Health Advisory offers a margin of protection from a lifetime of exposure for all individuals from adverse health effects resulting from exposure from these compounds in drinking water.

Below are the laboratory results of twenty-two (22) of the thirty-three (33) private well sampled to date:

Address	Date Sampled	Laboratory Results for PFOA + PFOS (70 ppt Advisory)
2 Tina Lane	5/19/2017	ND
20 Hillcrest Circle	5/19/2017	ND
539 North Road	5/18/2017	ND
1295 Southampton	5/18/2017	ND
21 Hillcrest Circle	5/18/2017	ND
285 Lower Sandy Hill Road	5/10/2017	864 ppt
232 Buck Pond Road	5/10/2017	19 ppt
27 Indian Ridge Road	5/10/2017	18 ppt
1214 East Mountain Road	5/10/2017	17 ppt
16 Mockingbird Lane	5/10/2017	ND
294 Union Street	5/10/2017	ND
533 North Road	5/10/2017	ND
42 Old Holyoke Road	5/10/2017	ND
43 Hillcrest Circle	5/10/2017	ND
23 Deveno Lane	4/28/2017	ND
95 Old Holyoke Road	4/28/2017	ND
20 Ridge Trail Road	4/28/2017	ND
1524 East Mountain Road	4/28/2017	ND
2050 East Mountain Road	4/28/2017	ND
34 Lewis Road	4/28/2017	ND
1850 East Mountain Road	4/28/2017	ND
1749 East Mountain Road	4/28/2017	ND

Please note that this table includes all of the sampling results to date, including the 4/28/2017 results which were announced previously in May, 2017. The private well owners have been notified of the results prior the issuance of this letter and have been mailed copies of their laboratory results. MassDEP is continuing to sample private wells and will keep the City, its citizens and Barnes Air National Guard Base apprised of the results as we receive them. A copy of all of the laboratory results is accessible through the City of Westfield's website and can be viewed at <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=1-0020093>.

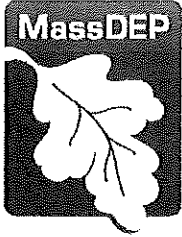
If you have any questions regarding this letter please contact me at (413) 755-2213 or Eva Tor at 413-755-2295.

Sincerely,



Michael Gorski
Regional Director

Ecc: Barnes ANG – Colonel James Suhr
Colonel Peter Green
John Richardson
Barnes Aquifer Protection Committee - Patty Gambarini
Westfield DPW - David Billips
Westfield Health Department - Joseph Rouse
Massachusetts Department of Public Health – Dr. Marc Nascarella



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June 13, 2017

Ms. Maria Hart
1214 East Mountain Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
1214 East Mountain Road
Westfield Private Well Sampling

Dear Ms. Hart,

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water.¹

The sampling result indicated a total PFOA and PFOS concentration of 17.4 ppt. This concentration is well below the health advisory level of 70 ppt. In order to confirm this result, MassDEP will contact you to resample your well. MassDEP will also sample wells in the vicinity of your area in order to gather additional information. The Department thanks you for granting access to your property.

This information is available in alternate format, Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

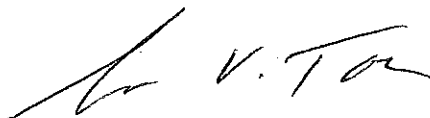
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,



Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123) Lab
Laboratory Report

Ecc : Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 1214 East Mountain Road
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Marie Hart
2. Street Address: 1214 East Mountain Road
City/Town: Westfield Zip Code: 01086

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 1214 East Mountain Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS

ACCUTEST New England

06/07/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

1214 East Mountain, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50375

Sampling Date: 05/10/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 25



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Marty Vitanza 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (A1171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC.

Job No: MC50375

1214 East Mountain, Westfield, MA
Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50375-1	05/10/17	16:20 JB	05/11/17	DW	Drinking Water FB	1214 EAST MOUNTAIN FIELD BLANK
MC50375-2	05/10/17	16:30 JB	05/11/17	DW	Drinking Water	1214 EAST MOUNTAIN-1
MC50375-3	05/10/17	16:31 JB	05/11/17	DW	Drinking Water	1214 EAST MOUNTAIN-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50375

Site: 1214 East Mountain, Westfield, MA

Report Date 6/7/2017 3:14:25 PM

1 Sample was collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.4 Deg. C and intact. These Samples received a job number of MC50375. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW	Batch ID: F:OP65104
------------	---------------------

- MC50375-2: Analysis performed at SGS Accutest, Orlando FL.

MC50375-2, Batch OP65281: Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50375).

Wednesday, June 07, 2017

Page 1 of 1

SGS

4 of 25
ACCUTEST
MC50375

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50375

Site: ATCMAS: 1214 East Mountain, Westfield, MA

Report Date: 6/7/2017 12:15:47 PM

1 Sample(s) were collected on 05/10/2017 and were received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of MC50375. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65104

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) MC50375-2 have surrogates outside control limits. Probable cause is due to matrix interference.

MC50375-2: Confirmed by re-extraction and reanalysis.

MC50375-2 for d5-NEtFOSAA: Outside control limits.

MC50375-2 for 13C2-PFDA: Outside control limits.

Matrix: DW

Batch ID: OP65281

MC50375-2: Confirmation run for surrogate recoveries.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date June 7, 2017

Kim Benham, Client Services (signature on file)

Wednesday, June 07, 2017

Page 1 of 1

Summary of Hits

Job Number: MC50375
Account: ATC Group Services LLC.
Project: 1214 East Mountain, Westfield, MA
Collected: 05/10/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC50375-2	1214 EAST MOUNTAIN-1					
		Perfluorohexanesulfonic acid ^a	0.0277	0.015	ug/l	EPA 537
		Perfluorooctanesulfonic acid ^a	0.0174	0.015	ug/l	EPA 537

(a) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.

Sample Results

Report of Analysis

Report of Analysis

4.1
4

Client Sample ID:	1214 EAST MOUNTAIN-1	Date Sampled:	05/10/17
Lab Sample ID:	MC50375-2	Date Received:	05/11/17
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 537 EPA 537		
Project:	1214 East Mountain, Westfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1587.D	1	05/25/17 16:35	AFL	05/19/17 09:00	F:OP65104	F:S2Q44
Run #2 ^b	2Q1926.D	1	06/05/17 20:41	AFL	06/02/17 09:30	F:OP65281	F:S2Q51

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	260 ml	1.0 ml

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0277		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0174		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	126%	101%	70-130%
	13C2-PFDA	69% ^c	84%	70-130%
	d5-EtFOSAA	37% ^c	91%	70-130%

- (a) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.
- (b) Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.
- (c) Outside control limits.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

5**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

SGS Accutest NE Sample Receipt Summary

Job Number: MC50375

Client: ATC

Project: WESTFIELD

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #s:

Cooler Temps (Initial/Adjusted): #1 (3.9 / 3.4); #2 (4.1 / 3.6);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. SmpI Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | ; IRGUN1; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 2 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments NOTE: 537 volume received
 -1: (1) 120ml N/P and (1) 250ml N/P
 -2 and -3: (2) 250ml N/P

5.1
5

MC50375: Chain of Custody

Page 2 of 2





Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: **SGS Accutest- Marlborough**

Project #: **MC50375**

Project Location: **1214 East Mountain, Westfield, MA**

MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50375-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: H. Madadian Position: Laboratory Director

Printed Name: H. (Brad) Madadian Date: 07-Jun-17

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5

Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50375

1214 East Mountain, Westfield, MA
Project No: 183EM00170



Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50375-2 Collected: 10-MAY-17 16:30 By: JB Received: 11-MAY-17 By: TF 1214 EAST MOUNTAIN-1						

MC50375-2 EPA 537	25-MAY-17 16:35	AFL	19-MAY-17	AFL	LC537LIST
MC50375-2 EPA 537	05-JUN-17 20:41	AFL	02-JUN-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50375
Account: ATC Group Services LLC.
Project: 1214 East Mountain, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50375



Misc. Forms

6

Custody Documents and Other Forms

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



ACCUTEST

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.sgs.com

CHAIN OF CUSTODY

PREM

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes	
Company Name: SGS Accutest		Project Name: 1214 East Mountain, Westfield, MA														DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SOS - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WV - Vials FB - Field Blank EB - Equipment Blank RB - Reuse Blank TB - Trip Blank	
Billing Information (if different from Report to)		Billing Information (if different from Report to)														LAB USE ONLY	
Company Name:		Company Name:															
Street:		Street:															
City:		City:															
State:		State:															
Zip:		Zip:															
Project Contact:		Project #:															
Email:		Street Address:															
Phone #:		City:															
Fax #:		State:															
Client Purchase Order #:		Zip:															
Project Manager:		Attention:															
Sample(s) Name(s):																	
Job #:																	
Turnaround Time (Business days)		Data Deliverable Information				Comments / Special Instructions											
<input type="checkbox"/> 9th, 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> other <u>Due 5/26/2017</u> <small>Emergency & Rush T/A data available VJA Lablink</small>		Approved By (SGS Account #) / Date:				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLY (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> EDD Format <input type="checkbox"/> Commercial "C" <input checked="" type="checkbox"/> Other MAMCP <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data</small>										Ship to ALSE - 10 Day TAT	
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by: <u>1 [Signature]</u>		Date/Time: <u>5/11/17 18:00</u>		Received By: <u>1 [Signature]</u>		Date/Time: <u>5/12-17</u>		Relinquished by: <u>2 [Signature]</u>		Date/Time: <u>5/12-17</u>		Received By: <u>2 [Signature]</u>		Date/Time: <u>10:00</u>			
Relinquished by: <u>3 [Signature]</u>		Date/Time: <u>5/11/17 18:00</u>		Received By: <u>3 [Signature]</u>		Date/Time: <u>5/12-17</u>		Relinquished by: <u>4 [Signature]</u>		Date/Time: <u>5/12-17</u>		Received By: <u>4 [Signature]</u>		Date/Time: <u>10:00</u>			
Relinquished by: <u>5 [Signature]</u>		Date/Time: <u>5/11/17 18:00</u>		Received By: <u>5 [Signature]</u>		Date/Time: <u>5/12-17</u>		Relinquished by: <u>6 [Signature]</u>		Date/Time: <u>5/12-17</u>		Received By: <u>6 [Signature]</u>		Date/Time: <u>10:00</u>			
Custody Seal #		<input type="checkbox"/> Intact		<input type="checkbox"/> Broken		Preserved where applicable		<input type="checkbox"/> Yes		<input type="checkbox"/> No		On-site		Cooler Temp. <u>2.6</u>			

6.1

MC50375: Chain of Custody
Page 1 of 3
SGS Accutest Southeast

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50375 CLIENT: ALWE PROJECT: 1214 East Mountain, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17 10:50 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 7273 7516 2286

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE CS-12-17 REVIEWER SIGNATURE/DATE [Signature] 05/12/17

NF 02/16 receipt confirmation 020116.xls

TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR +0.4
 OBSERVED TEMPS: 2.2
 CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

6.1
6



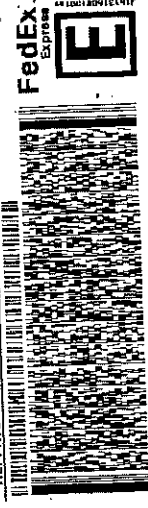
ORIGIN ID: BFEA (508) 481-5200
SGS ACCUTEST LABORATORIES
50 D'ANGELO DR. BUILDING 1
435 TECH CENTER CT 01752
UNITED STATES US

SHIP DATE: 11/01/17
ACTWT: 46.0 LB TAN
CRD: 0998601/CRFE2815

BILL RECIPIENT

10 SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND RD
SUITE C - 15
ORLANDO FL 328115803

REF: ATC

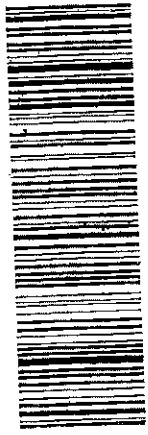


TRK# 7273 7516 2286
0201

FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

EA ORLA

32811
FL-US MCO



MC50375: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50375

ATCMAS: 1214 East Mountain, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50375-2 Collected: 10-MAY-17 16:30 By: JB Received: 11-MAY-17 By: JC 1214 EAST MOUNTAIN-1						

MC50375-2 EPA 537	25-MAY-17 16:35	NAF	19-MAY-17	MB	LC537LIST
MC50375-2 EPA 537	05-JUN-17 20:41	NAF	02-JUN-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC50375
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 1214 East Mountain, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50375-2

7.1.1
7

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EtFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries	Limits	
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EtFOSAA	84%	70-130%

Blank Spike Summary

Job Number: MC50375
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 1214 East Mountain, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	2Q1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50375-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EtFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1

7

Semivolatile Internal Standard Area Summary

Job Number: MC50375
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 1214 East Mountain, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1	IS 2	IS 3	IS 4	IS 5	IS 6						
	AREA	RT	AREA	RT	AREA	RT						
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1	IS 2	IS 3	IS 4	IS 5	IS 6						
	AREA	RT	AREA	RT	AREA	RT						
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
MC50375-2 ^e	35992	4.37	93034 ^f	6.90	54464	6.88	30071 ^f	7.52	33474	7.51	120712 ^f	13.08
ZZZZZZ	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
ZZZZZZ	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
ZZZZZZ	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFD_oDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Confirmed by re-extraction and reanalysis.
- (f) Outside control limits.

7.3.1
7

Semivolatiles Internal Standard Area Summary

Job Number: MC50375
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 1214 East Mountain, Westfield, MA

Check Std:	S2Q51-CC51	Injection Date:	06/05/17
Lab File ID:	2Q1922.D	Injection Time:	19:14
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	45018	4.37	91520	6.99	59879	6.96	37409	7.65	30542	7.54	106448	13.28
Check Std ^b	44043	4.37	90275	6.99	61094	6.96	37624	7.65	31443	7.54	106945	13.23
Upper Limit ^c	67527	5.37	137280	7.99	89819	7.96	56114	8.65	45813	8.54	159672	14.23
Lower Limit ^d	22509	3.37	45760	5.99	29940	5.96	18705	6.65	15271	6.54	53224	12.23

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65281-BS ^e	46162	4.42	91647	6.99	60248	6.96	37281	7.64	31411	7.54	105979	13.24
OP65281-MB	53757	4.37	97301	6.96	69339	6.94	41834	7.63	36218	7.54	120364	13.20
MC50375-2 ^f	45592	4.38	89203	6.97	63616	6.95	36919	7.64	32069	7.54	104631	13.10
ZZZZZZ	48991	4.37	95309	6.96	67639	6.94	38697	7.63	34033	7.54	110606	13.15
ZZZZZZ	46904	4.37	93708	6.96	66748	6.94	38697	7.63	33010	7.54	110860	13.09
ZZZZZZ	45488	4.40	87432	6.99	62790	6.96	36754	7.65	31868	7.54	103246	13.19
ZZZZZZ	48341	4.41	94674	6.97	66836	6.95	39000	7.64	34005	7.54	110894	13.24

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q51-ICC51 2Q1909.D 06/05/17 13:58. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
- (e) Insufficient sample for MS/MSD.
- (f) Confirmation run for surrogate recoveries.

7.3.2
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50375
Account: ALNE SGS Accutest New England
Project: ATCMAS: 1214 East Mountain, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50375-2	2Q1587.D	126	69* a	37* a
MC50375-2	2Q1926.D	101	84	91
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

(a) Outside control limits.

7.4.1





Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Suuberg
Commissioner

June 13, 2017

David and Karen Lewis
27 Indian Ridge Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
27 Indian Ridge Road
Westfield Private Well Sampling

Dear Mr. and Mrs. Lewis,

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water. ¹

The sampling result indicated a total PFOA and PFOS concentration of 18.1 ppt. This concentration is well below the health advisory level of 70 ppt. In order to confirm this result, MassDEP will contact you to resample your well. MassDEP will also sample wells in the vicinity of your area in order to gather additional information. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

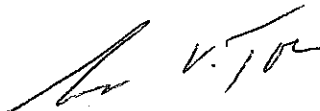
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,



Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123) Lab
Laboratory Report

Ecc : Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 27 Indian Ridge Road
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Karen & David Lewis
2. Street Address: 27 Indian Ridge Road
City/Town: Westfield Zip Code: 01086

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 27 Indian Ridge Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Technical Report for**ATC Group Services LLC.**

27 Indian Ridge, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50374

Sampling Date: 05/10/17

Report to:ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 24

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.
H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AI171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC.

Job No: MC50374

27 Indian Ridge, Westfield, MA
Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50374-1	05/10/17	15:50 JB	05/11/17	DW	Drinking Water FB	27 INDIAN RIDGE FIELD BLANK
MC50374-2	05/10/17	15:54 JB	05/11/17	DW	Drinking Water	27 INDIAN RIDGE-1
MC50374-3	05/10/17	15:55 JB	05/11/17	DW	Drinking Water	27 INDIAN RIDGE-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50374

Site: 27 Indian Ridge, Westfield, MA

Report Date 6/1/2017 1:58:17 PM

1 Sample was collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.4 Deg. C and intact. These Samples received a job number of MC50374. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65104

MC50374-2: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50374).

Thursday, June 01, 2017

Page 1 of 1

SGS

4 of 24
ACCUTEST
MC50374

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50374

Site: ATCMAS: 27 Indian Ridge, Westfield, MA

Report Date 5/31/2017 10:04:04 PM

1 Sample was collected on 05/10/2017 and was received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. This Sample received an SASE job number of MC50374. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65104

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) MC50374-2 has surrogates outside control limits. Probable cause is due to matrix interference.

MC50374-2 for d5-NEtFOSAA: Outside control limits due to matrix interference. Confirmed by MS/MSD.

MC50374-2 for 13C2-PFDA: Outside control limits due to matrix interference. Confirmed by MS/MSD.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Lovelie Metzgar, QA Officer (signature on file)

Date: May 31, 2017

Wednesday, May 31, 2017

Page 1 of 1

SGS

5 of 24
ACCUTEST
MC50374

Summary of Hits

Job Number: MC50374
Account: ATC Group Services LLC.
Project: 27 Indian Ridge, Westfield, MA
Collected: 05/10/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC50374-2	27 INDIAN RIDGE-1					
Perfluorooctanesulfonic acid ^a		0.0181	0.015		ug/l	EPA 537

(a) Analysis performed at SGS Accutest, Orlando FL.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 27 INDIAN RIDGE-1	Date Sampled: 05/10/17
Lab Sample ID: MC50374-2	Date Received: 05/11/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 27 Indian Ridge, Westfield, MA	

4.1
4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1584.D	1	05/25/17 15:30	AFL	05/19/17 09:00	F:OP65104	F:S2Q44
Run #2							

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0181		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EiFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	113%		70-130%
	13C2-PFDA	68% ^b		70-130%
	d5-EiFOSAA	47% ^b		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

(b) Outside control limits due to matrix interference. Confirmed by MS/MSD.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



Misc. Forms

67

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7153
www.accutest.com

PREM

FED-EX Tracking #
Boths Order Control #
SGS Accutest Quote #
SGS Accutest Job # MC50374

Form containing Client/Reporting Information, Project Information, Billing Information, Requested Analysis, Matrix Codes, Collection table, Data Deliverable Information, and Sample Custody sections.

5.1 5

MC50374: Chain of Custody
Page 1 of 2



SGS Accutest NE Sample Receipt Summary

Job Number: MC50374

Client: ATC

Project: 27 INDIAN RIDGE

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1 (3.9 / 3.4); #2: (4.1/3.6);

Cooler Security

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smp'l Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | <u>IRGUN1;</u> | |
| 3. Cooler media: | <u>Ice (Bag)</u> | |
| 4. No. Coolers: | <u>2</u> | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | <u>Intact</u> | |

Sample integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

NOTE: 537 volume received

- 1: (1) 120ml N/P and (1) 250ml N/P poly
- 2, -3: (2) 250ml N/P poly

5.1
5

MC50374: Chain of Custody

Page 2 of 2





Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

52
5

Laboratory Name: SGS Accutest- Marlborough Project #: MC50374

Project Location: 27 Indian Ridge, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50374-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status"

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [Signature] Position: Laboratory Director

Printed Name: H. (Brad) Madadian Date: 01-Jun-17



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50374

27 Indian Ridge, Westfield, MA
Project No: 183EM00170

5.3
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50374-2 Collected: 10-MAY-17 15:54 By: JB Received: 11-MAY-17 By: TF 27 INDIAN RIDGE-1						
MC50374-2	EPA 537	25-MAY-17 15:30	AFL	19-MAY-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50374
Account: ATC Group Services LLC.
Project: 27 Indian Ridge, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50374

Misc. Forms

**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



ACCUTEST

CHAIN OF CUSTODY

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7153
www.sgs.com

PREM

Client / Reporting Information Company Name: SGS Accutest Street Address: 60 D'Angelo Drive, 495 Technology Center West, BLDG One City: Marlborough, MA 01752 Project Contact: JEREMY WEINBAU@accutest.com Phone #: 508-481-6200 Sample(s) Name(s): JB				Project Information Project Name: 27 Indian Ridge, Westfield, MA Billing Information (if different from Report to): Project #: Client Purchase Order #: Project Manager: Attention:				Requested Analysis (see TEST CODE sheet) <table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> 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TB - Tap Blank LAB USE ONLY			
Turnaround Time (Business days) <input type="checkbox"/> Bld. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> other Due 5/25/2017 Emergency & Rush T/A data available VIA Lablink		Approved By (SGS Accutest PM): J Date: _____						Data Deliverable Information <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULL T (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> NJ Reduced <input type="checkbox"/> RPD Format <input type="checkbox"/> Commercial "C" <input checked="" type="checkbox"/> Other MAMCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Flow data						Comments / Special Instructions SNIP TO ALSE - 10 Day TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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MC50374: Chain of Custody
Page 1 of 3
SGS Accutest Southeast

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50374 CLIENT: ALWE PROJECT: 27 Indian Ridge, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17, 10:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: _____
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 7273 7516 2286

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR +0.4
 OBSERVED TEMPS: 2.2
 CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE Scos-12-17 REVIEWER SIGNATURE/DATE [Signature] 05/12/17

NF 02/16

receipt confirmation 020116.xls

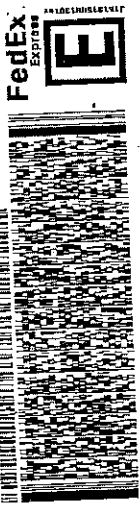
6.1
6

ORIGIN ID: BBEA (508) 481-8200
SAMPLE MANAGEMENT
SGS ACCUTEST LABORATORIES
3500 WOODLAND DR
435 TECH CENTER N, BUILDING 1
HARLBOROUGH, MA
UNITED STATES 01752

BILL RECIPIENT

TO SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND RD
SUITE C-15
ORLANDO FL 328115803

(407) 428-8700
REF-ATC



FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

TRAK 7273 7516 2286

EA ORLA

32811
FL-US MCO



MC50374: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50374

ATCMAS: 27 Indian Ridge, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50374-2 Collected: 10-MAY-17 15:54 By: JB Received: 11-MAY-17 By: JC 27 INDIAN RIDGE-1						
MC50374-2	EPA 537	25-MAY-17 15:30	NAF	19-MAY-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50374
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 27 Indian Ridge, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50374-2

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EtFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries	Limits	
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EtFOSAA	84%	70-130%

7.1.1
7

Blank Spike Summary

Job Number: MC50374
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 27 Indian Ridge, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	2Q1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50374-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EiFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EiFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1
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Semivolatile Internal Standard Area Summary

Job Number: MC50374
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 27 Indian Ridge, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
ZZZZZZ	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
ZZZZZZ	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
ZZZZZZ	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDODA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1
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Semivolatile Surrogate Recovery Summary

Job Number: MC50374
Account: ALNE SGS Accutest New England
Project: ATCMAS: 27 Indian Ridge, Westfield, MA

Method: EPA 537	Matrix: DW
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50374-2	2Q1584.D	113	68* a	47* a
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84

Surrogate Compounds	Recovery Limits
---------------------	-----------------

S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

(a) Outside control limits due to matrix interference. Confirmed by MS/MSD.

7.4.1
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Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

June 13, 2017

Couture Partners LLC
Attn: Bob Couture
504 11th Street
Hermosa Beach, CA 90254

Re: Notice of Environmental Sampling
285 Lower Sandy Hill Road
Westfield Private Well Sampling
Westfield, RTN 1-20093

Dear Mr. Couture:

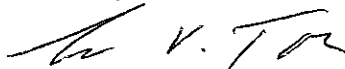
The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water.¹

The sampling results indicate a combined PFOA and PFOS concentration of 864 ppt in the drinking water sample. Based on the detection of a combined concentration of PFOA and PFOS above the EPA Health Advisory, MassDEP provided bottle water to the residence on June 1, 2017 and advised the tenants not to utilize the well water for drinking and cooking. We also initiated the process of installing a point-of-entry water treatment system at the residence. The system should be installed in approximately four weeks. The Department thanks you for granting access to your property.

Notice of Environmental Sampling
285 Lower Sandy Hill Road
Westfield, RTN 1-20093
June 13, 2017
Page 2 of 2

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,



Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

Ecc : Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 285 Lower Sandy Hill Road
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Couture Partners, LLC
2. Street Address: 285 Lower Sandy Hill Road
City/Town: Westfield Zip Code: 01086

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 285 Lower Sandy Hill Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- Immediate Response Action
- Release Abatement Measure
- Utility-related Abatement Measure
- Phase I Initial Site Investigation
- Phase II Comprehensive Site Assessment
- Phase III Feasibility Evaluation
- Phase IV Remedy Implementation Plan
- Phase V/Remedy Operation Status
- Post-Temporary Solution Operation, Maintenance and Monitoring
- Other _____ (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310. CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Technical Report for**ATC Group Services LLC.**

285 Lower Sandy Hill, Westfield, MA

083EM0070

SGS Accutest Job Number: MC50376

Sampling Date: 05/10/17

Report to:ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 24

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.
H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AH171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC.

Job No: MC50376

285 Lower Sandy Hill, Westfield, MA
Project No: 083EM0070

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50376-1	05/10/17	10:38 JB	05/11/17	DW	Drinking Water FB	285 LOWER SANDY HILL FIELD BLANK
MC50376-2	05/10/17	10:48 JB	05/11/17	DW	Drinking Water	285 LOWER SANDY HILL-1
MC50376-3	05/10/17	10:49 JB	05/11/17	DW	Drinking Water	285 LOWER SANDY HILL-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50376

Site: 285 Lower Sandy Hill, Westfield, MA

Report Date 5/31/2017 6:26:07 PM

1 Sample(s) was collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.4 Deg. C and intact. These Samples received a job number of MC50376. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65104

- MC50376-2: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50376).

Wednesday, May 31, 2017

Page 1 of 1

SGS

4 of 24
ACCUTEST
MC50376

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50376

Site: ATCMAS: 285 Lower Sandy Hill, Westfield, MA

Report Date 5/30/2017 5:58:39 PM

1 Sample(s) were collected on 05/10/2017 and were received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of MC50376. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65104

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date May 30, 2017

Kim Benham, Client Services (signature on file)

Tuesday, May 30, 2017

Page 1 of 1

Summary of Hits

Job Number: MC50376
Account: ATC Group Services LLC.
Project: 285 Lower Sandy Hill, Westfield, MA
Collected: 05/10/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC50376-2	285 LOWER SANDY HILL-1					
	Perfluorohexanoic acid ^a	0.0869	0.015		ug/l	EPA 537
	Perfluoroheptanoic acid ^a	0.0281	0.015		ug/l	EPA 537
	Perfluorooctanoic acid ^a	0.164	0.015		ug/l	EPA 537
	Perfluorobutanesulfonic acid ^a	0.0204	0.015		ug/l	EPA 537
	Perfluorohexanesulfonic acid ^a	0.355	0.015		ug/l	EPA 537
	Perfluorooctanesulfonic acid ^a	0.701	0.015		ug/l	EPA 537

(a) Analysis performed at SGS Accutest, Orlando FL.

Sample Results

Report of Analysis

Report of Analysis

4.1
4

Client Sample ID: 285 LOWER SANDY HILL-1	Date Sampled: 05/10/17
Lab Sample ID: MC50376-2	Date Received: 05/11/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 285 Lower Sandy Hill, Westfield, MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1588.D	1	05/25/17 16:57	AFL	05/19/17 09:00	F:OP65104	F:S2Q44
Run #2							

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL RL	Units	Q
307-24-4	Perfluorohexanoic acid	0.0869	0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0281	0.015	ug/l	
335-67-1	Perfluorooctanoic acid	0.164	0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	0.0204	0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.355	0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.701	0.015	ug/l	
2355-31-9	MeFOSAA	ND	0.038	ug/l	
2991-50-6	EtFOSAA	ND	0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	111%		70-130%
	13C2-PFDA	87%		70-130%
	d5-EtFOSAA	91%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Client Reporting Information			Project Information							Requested Analysis (See TEST CODE sheet)							Matrix Codes										
Company Name: PHI Group Services			Project Name: 285 Lower Sandy Hill							<div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;"> EPA method 837 modified Total Iron, H₂S, Hardness, TDS </div>							<div style="font-size: small;"> DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div>										
Street Address: 73 William Frank Dr			Street: 285 Lower Sandy Hill																								
City: West Springfield MA 01087			City: Westfield																								
Project Contact: Rob Smith PHIGroup.com			Project: 183EM0070																								
Phone #: 413-781-0070 ext 101			Client PO#: _____																								
Sampler(s) Name(s): Joe DeLuc			Project Manager: Rob Smith																								
Phone #: 413-207-1788			Attention: _____																								
FWS Accutest Sample #	Field ID / Point of Collection	MECHDI Val #	Date	Time	Sampler	Matrix	# of bottles	Number of preserved bottles																			
								PH	AL	AMNH	ANCI	ARSD	BAR	BI	BOH	BT	CB	CO	COC	ES							
1	285 Lower Sandy Hill Field Blank		5-10-17	1038	RW	2													X								
2	285 Lower Sandy Hill-1		5-10-17	1048	SB	6	3	L				2							X	X							
3	285 Lower Sandy Hill-2		5-10-17	1049	SB	2						2							X								
<input checked="" type="checkbox"/> Standard Turnaround Times (Business days) <input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A rates available VIA Lablink												Approved By (SGS Accutest P#) / Date: _____ Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP <input type="checkbox"/>					<input type="checkbox"/> RYASP Category A <input type="checkbox"/> RYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other										
<input checked="" type="checkbox"/> Hold Field Blank + Sample - 2 <input checked="" type="checkbox"/> Also Hold Sample - 1 for Total AS <input checked="" type="checkbox"/> Iron, Hardness + TAC																											
Sample Custody must be documented below each time samples change possession, including courier delivery.																											
1	Received by: Michelle Larter	Date/Time: 5/10/17 1700	2	Received by: Michelle Larter	Date/Time: 5/11/17	3	Received by: [Signature]	Date/Time: _____																			
2	Received by: [Signature]	Date/Time: _____	4	Received by: [Signature]	Date/Time: _____																						
3	Received by: [Signature]	Date/Time: _____	5	Received by: [Signature]	Date/Time: _____																						
4	Received by: [Signature]	Date/Time: _____																									
				Custody Seal # _____ <input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact _____																							
				On Ice <input checked="" type="checkbox"/> Cooler Temp: 39.4																							

5.1
5

SGS Accutest NE Sample Receipt Summary

Job Number: MC50376

Client: ATC

Project: 285 LOWER SANDY HILL

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #s: _____

Cooler Temps (Initial/Adjusted): #1 (3.9 / 3.4); #2 (4.1 / 3.6);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | <u>IRGUN1;</u> | |
| 3. Cooler media: | <u>Ice (Bag)</u> | |
| 4. No. Coolers: | <u>2</u> | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | <u>Intact</u> | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments NOTE: 537 volume received
-1, -2, -3: (2) 120ml N/P poly

5.1
5

MC50376: Chain of Custody
Page 2 of 2



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough

Project #: MC50376

Project Location: 285 Lower Sandy Hill, Westfield, MA

MADEP RTN

None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50376-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status"

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:

Position: Laboratory Director

Printed Name: H. (Brad) Madadian

Date: 31-May-17

5.2
5



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50376

285 Lower Sandy Hill, Westfield, MA
Project No: 083EM0070

5.3
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50376-2 Collected: 10-MAY-17 10:48 By: JB Received: 11-MAY-17 By: TF 285 LOWER SANDY HILL-1						
MC50376-2	EPA 537	25-MAY-17 16:57	AFL	19-MAY-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50376
Account: ATC Group Services LLC.
Project: 285 Lower Sandy Hill, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50376

Misc. Forms

**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



ACCUTEST

CHAIN OF CUSTODY

50 D'Angelo Drive, 495 Technology Center West, Higg One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7131
www.sgs.com

Client / Reporting Information Company Name: SGS Accutest Street Address: 50 D'Angelo Drive, 495 Technology Center West, Higg One City: Marlborough, MA 01752 Project Contact: JEREMY MENNEAU@Accutest.com Phone #: 508-481-6200 Sample(s) Name(s): JB		Project Information Project Name: 285 Lower Sandy Hill, Westfield, MA Street Address: 285 Lower Sandy Hill, Westfield, MA City: Westfield, MA State: MA Zip: 01186 Project #: Client Purchase Order #: Project Manager:		Requested Analysis (see TEST CODE sheet) (Columns for various analytes: DW, GW, WW, SW, SO, SS, SED-Sediment, OI, OS, LIQ, AIR, BSL, WP, FB-Field Blank, EQ-Equipment Blank, RB-Rose Blank, YB-Tip Blank)										Matrix Codes (List of matrix codes)							
Collection Field ID / Point of Collection: 285 LOWER SAND HILL FIELD BLANK Date: 5/10/17 Time: 10:38:00 AM Sampled by: JB Matrix: DW # of bottles: 2		Data Deliverable Information <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other: MAMCP Comments: Ship to ALSE - 10 Day JAT		Number of preserved bottles (Columns for various preservation methods: FROZEN, COLD, etc.)										LAB USE ONLY							
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> other: Due 5/25/2017 <small>Emergency & Rush TJA data available via Lablink</small>		Approved by (SGS Accutest PM): _____ _____ _____		Sample Custody must be documented below each time samples change possession, including courier delivery.										Comments / Special Instructions							
Requisitioned by: 1. [Signature] Date/Time: 5/10/17 10:30		Received By: 1. [Signature] Date/Time: 5/10/17 10:30		Requisitioned by: 2. [Signature] Date/Time: 05-12-17		Received By: 2. J. Corne (dise) 10:00 Date/Time:		Requisitioned by: 3. [Signature] Date/Time:		Received By: 3. [Signature] Date/Time:		Requisitioned by: 4. [Signature] Date/Time:		Received By: 4. [Signature] Date/Time:		Requisitioned by: 5. [Signature] Date/Time:		Received By: 5. [Signature] Date/Time:		Preserved where applicable: <input type="checkbox"/> Cold <input type="checkbox"/> Hot/Refr. Cooler Temp: 2.6	

G1 6

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50376 CLIENT: ALWE PROJECT: 285 Lower Sandy Hill, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17; 10:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 7273 7516 2286

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____
 TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR + 0.4
- OBSERVED TEMPS: 2.2
- CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE e 05/12/17 REVIEWER SIGNATURE/DATE [Signature] 05/12/17

NF 02/16

receipt confirmation 020116.xls

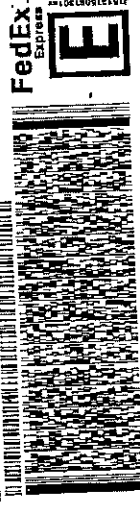
6.1
6



ORIGIN ID: BBFA (508) 481-6200
SAMPLE PRESS LABORATORIES
300 PANGLOSS DR. BUILDING 1
495 TECH CENTER 01752
UNITED STATES US

TO
SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND RD
SUITE C-15
ORLANDO FL 328115803
(407) 481-6700
REF: ATC

SHIP DATE: 11/04/17
ACTIVITY: 46.0 LB-PPM
CRD: 0588001/CAFE2815
BILL RECIPIENT



TX# 7273 7516 2286
06031
FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

EA ORLA
32811
FL-US MCO



MC50376: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50376

ATCMAS: 285 Lower Sandy Hill, Westfield, MA
Project No: 083EM0070

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50376-2 Collected: 10-MAY-17 10:48 By: JB Received: 11-MAY-17 By: JC 285 LOWER SANDY HILL-1						
MC50376-2	EPA 537	25-MAY-17 16:57	NAF	19-MAY-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50376
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 285 Lower Sandy Hill, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50376-2

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EtFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EtFOSAA	84%	70-130%

7.1.1
7



Blank Spike Summary

Job Number: MC50376
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 285 Lower Sandy Hill, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	2Q1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50376-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EtFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50376
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 285 Lower Sandy Hill, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
MC50376-2	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
ZZZZZZ	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
ZZZZZZ	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

(a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
 (b) Check Std Limit = -50 to +50% of initial cal area.
 (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
 (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50376
Account: ALNE SGS Accutest New England
Project: ATCMAS: 285 Lower Sandy Hill, Westfield, MA

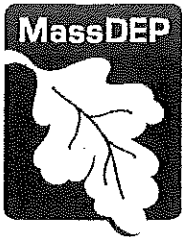
Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50376-2	2Q1588.D	111	87	91
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Suuberg
Commissioner

June 13, 2017

Benjamin and Ahanna Timakov
232 Buck Pond Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
232 Buck Pond Road
Westfield Private Well Sampling

Dear Mr. and Mrs. Timakov,

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water. ¹

The sampling result indicated a total PFOA and PFOS concentration of 19.4 ppt. This concentration is well below the health advisory level of 70 ppt. However, MassDEP noted that the laboratory results showed high concentrations of other compounds and we would therefore like to resample your well. We also will sample wells in the vicinity of your area in order to gather additional information. In the meantime, therefore, and in order to be protective, MassDEP has supplied you with bottled water to use for drinking and cooking. We will reevaluate the continued use of bottled water once we receive results of the additional tests. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

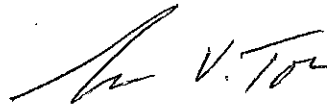
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,



Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

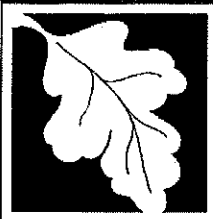
¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123) Lab
Laboratory Report

Ecc : Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 232 Buckpond Road
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Ben & Zhanna Timakov
2. Street Address: 232 Buckpond Road
City/Town: Westfield Zip Code: 01086

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 232 Buckpond Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

232 Buck Pond, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50381

Sampling Date: 05/10/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 26



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
H. (Brad) Madadian
Lab Director

Client Service contact: Marty Vitanza 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (A1171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC.

Job No: MC50381

232 Buck Pond, Westfield, MA
Project No: 183EM00170

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC50381-1	05/10/17	08:57 JB	05/11/17	DW	Drinking Water FB	232 BUCK POND FIELD BLANK
MC50381-2	05/10/17	09:07 JB	05/11/17	DW	Drinking Water	232 BUCK POND-1
MC50381-3	05/10/17	09:08 JB	05/11/17	DW	Drinking Water	232 BUCK POND-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50381

Site: 232 Buck Pond, Westfield, MA

Report Date 6/7/2017 1:23:25 PM

1 Sample(s) was collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.4 Deg. C and intact. These Samples received a job number of MC50381. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65104

- MC50381-2: Analysis performed at SGS Accutest, Orlando FL.

MC50381-2, Batch OP65281: Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50381).

Wednesday, June 07, 2017

Page 1 of 1

SGS

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ACCUTEST
MC50381

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50381

Site: ATCMAS: 232 Buck Pond, Westfield, MA

Report Date: 6/7/2017 12:15:08 PM

1 Sample(s) were collected on 05/10/2017 and were received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of MC50381. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65104

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) MC50381-2 have surrogates outside control limits. Probable cause is due to matrix interference.

MC50381-2 for d5-NEtFOSAA: Outside control limits.

MC50381-2: Confirmed by re-extraction and reanalysis.

Matrix: DW

Batch ID: OP65281

MC50381-2: Confirmation run for surrogate recoveries.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date June 7, 2017

Kim Benham, Client Services (signature on file)

Wednesday, June 07, 2017

Page 1 of 1

Summary of Hits

Job Number: MC50381
Account: ATC Group Services LLC.
Project: 232 Buck Pond, Westfield, MA
Collected: 05/10/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC50381-2	232 BUCK POND-1					
Perfluorooctanoic acid ^a		0.0194	0.015		ug/l	EPA 537
Perfluorohexanesulfonic acid ^a		0.104	0.015		ug/l	EPA 537

(a) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID: 232 BUCK POND-1	Date Sampled: 05/10/17
Lab Sample ID: MC50381-2	Date Received: 05/11/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 232 Buck Pond, Westfield, MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1654.D	1	05/26/17 20:42	AFL	05/19/17 09:00	F:OP65104	F:S2Q45
Run #2 ^b	2Q1929.D	1	06/05/17 21:46	AFL	06/02/17 09:30	F:OP65281	F:S2Q51

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	0.0194		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.104		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	115%	97%	70-130%
	13C2-PFDA	86%	87%	70-130%
	d5-EtFOSAA	64% ^c	93%	70-130%

- (a) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.
- (b) Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.
- (c) Outside control limits.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

5**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
60 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-6200 FAX: 608-481-7753
www.accutest.com

PREM PAGE 1 OF 2

FBI-EX Tracking #
Batch Order Control #
SGS Accutest Quote #
SGS Accutest Job # MC50381

Form containing client/reporting information, project information, collection data table, data deliverable information, and sample custody log.

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SGS Accutest NE Sample Receipt Summary

Job Number: MC50381

Client: ATC

Project: 232 BUCK POND

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #s:

Cooler Temps (Initial/Adjusted): #1 (3.9 / 3.4); #2 (4.1 / 3.6);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | ; IRGUN1; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 2 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments NOTE: 537 volume received
-1, -2, -3: (2) 120ml N/P poly

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Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough Project #: MC50381

Project Location: 232 Buck Pond, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50381-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total Cyanide/PAC () CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [Signature] Position: Laboratory Director

Printed Name: H. (Brad) Madadian Date: 07-Jun-17

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Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50381

232 Buck Pond, Westfield, MA
Project No: 183EM00170

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Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
---------------	--------	----------	----	---------	----	------------

MC50381-2 Collected: 10-MAY-17 09:07 By: JB Received: 11-MAY-17 By: TF
232 BUCK POND-1

MC50381-2 EPA 537	26-MAY-17 20:42	AFL	19-MAY-17	AFL	LC537LIST
MC50381-2 EPA 537	05-JUN-17 21:46	AFL	02-JUN-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50381
Account: ATC Group Services LLC.
Project: 232 Buck Pond, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

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5

* Sample used for QC is not from job MC50381

Misc. Forms

9**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



ACCUTEST

CHAIN OF CUSTODY

PREM

30 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL: 508-481-0200 FAX: 508-481-2753
www.sgs.com

Table with columns: FED-EX Tracking #, Bottle Order Control #, SGS Account Order #, SGS Account Job (MC50381)

Client/Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes. Includes fields for Company Name (SGS Accutest), Project Name (232 Buck Pond, Westfield, MA), and various contact and billing details.

Table with columns: Sample #, Field ID / Point of Collection, MECH/FA Vol #, Date, Time, Sampled By, Matrix, # of bottles, and various chemical analysis columns (Pb, Ni, Mn, etc.). Includes samples 1, 2, and 3 from 232 Buck Pond.

Turnaround Time / Business days, Date Deliverable information, Comments / Special Instructions. Includes checkboxes for standard (10, 5, 3, 2, 1 day) and emergency options, and delivery instructions like 'Ship to ALSE - 10 Day TAT'.

Chain of Custody table with columns: Relinquished by, Date/Time, Received by, Date/Time. Includes handwritten entries for samples 1, 2, 3, and 4.

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MC50381: Chain of Custody
Page 1 of 3
SGS Accutest Southeast

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50381 CLIENT: ALNE PROJECT: 232 Buck Pond, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17 10:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 72737516 0286

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____
 TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____
 SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR +0.4
- OBSERVED TEMPS: 2.2
- CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

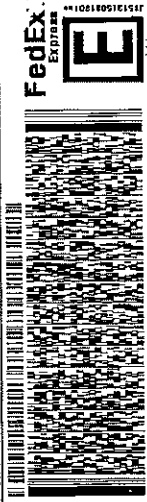
6.1
6

TECHNICIAN SIGNATURE/DATE [Signature] 05-12-17 REVIEWER SIGNATURE/DATE [Signature] 05/12/17
 NF 02/16 receipt confirmation 020116.xls

ORIGIN ID: BBEA (508) 481-6200
SHIP DATE: 11 MAY 14
SHIP TO: PSC LABORATORIES
50 D'ARCELLO DR
485 TECH CENTER BLDG 1
UNITED STATES US
BILL RECEIPT

TO
SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND RD
SUITE C-15
ORLANDO FL 328115803

(407) 481-6100
REF: ATC



FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

TRAK 7273 7516 2286

EA ORLA

32811
FL-US MCO



MC50381: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50381

ATCMAS: 232 Buck Pond, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50381-2 Collected: 10-MAY-17 09:07 By: JB Received: 11-MAY-17 By: JC 232 BUCK POND-1						
MC50381-2	EPA 537	26-MAY-17 20:42	NAF	19-MAY-17	MB	LC537LIST
MC50381-2	EPA 537	05-JUN-17 21:46	NAF	02-JUN-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

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Method Blank Summary

Job Number: MC50381
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 232 Buck Pond, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50381-2

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EtFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EtFOSAA	84%	70-130%

7.1.1



Blank Spike Summary

Job Number: MC50381
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 232 Buck Pond, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	2Q1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50381-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EtFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50381
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 232 Buck Pond, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
ZZZZZZ	35992	4.37	93034 ^e	6.90	54464	6.88	30071 ^e	7.52	33474	7.51	120712 ^e	13.08
ZZZZZZ	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
ZZZZZZ	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
ZZZZZZ	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Outside control limits.

7.3.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50381
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 232 Buck Pond, Westfield, MA

Check Std:	S2Q45-CC44	Injection Date:	05/26/17
Lab File ID:	2Q1645.D	Injection Time:	17:25
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52688	4.37	133810	6.90	71963	6.88	44313	7.52	42019	7.51	162016	12.80
Upper Limit ^c	71162	5.37	191871	7.90	103576	7.88	60508	8.52	58898	8.51	242876	13.80
Lower Limit ^d	35581	3.37	95936	5.90	51788	5.88	30254	6.52	29449	6.51	121438	11.80

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
MC50381-2 ^e	40022	4.40	97193	6.91	54628	6.89	33657	7.53	34385	7.53	119366 ^f	12.88

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Confirmed by re-extraction and reanalysis.
- (f) Outside control limits.

7.3.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC50381
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 232 Buck Pond, Westfield, MA

Check Std:	S2Q51-CC51	Injection Date:	06/05/17
Lab File ID:	2Q1922.D	Injection Time:	19:14
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	45018	4.37	91520	6.99	59879	6.96	37409	7.65	30542	7.54	106448	13.28
Check Std ^b	44043	4.37	90275	6.99	61094	6.96	37624	7.65	31443	7.54	106945	13.23
Upper Limit ^c	67527	5.37	137280	7.99	89819	7.96	56114	8.65	45813	8.54	159672	14.23
Lower Limit ^d	22509	3.37	45760	5.99	29940	5.96	18705	6.65	15271	6.54	53224	12.23

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65281-BS ^e	46162	4.42	91647	6.99	60248	6.96	37281	7.64	31411	7.54	105979	13.24
OP65281-MB	53757	4.37	97301	6.96	69339	6.94	41834	7.63	36218	7.54	120364	13.20
ZZZZZZ	45592	4.38	89203	6.97	63616	6.95	36919	7.64	32069	7.54	104631	13.10
ZZZZZZ	48991	4.37	95309	6.96	67639	6.94	38697	7.63	34033	7.54	110606	13.15
ZZZZZZ	46904	4.37	93708	6.96	66748	6.94	38697	7.63	33010	7.54	110860	13.09
MC50381-2 ^f	45488	4.40	87432	6.99	62790	6.96	36754	7.65	31868	7.54	103246	13.19
ZZZZZZ	48341	4.41	94674	6.97	66836	6.95	39000	7.64	34005	7.54	110894	13.24

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q51-ICC51 2Q1909.D 06/05/17 13:58. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
- (e) Insufficient sample for MS/MSD.
- (f) Confirmation run for surrogate recoveries.

7.3.3
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50381
Account: ALNE SGS Accutest New England
Project: ATCMAS: 232 Buck Pond, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50381-2	2Q1654.D	115	86	64* a
MC50381-2	2Q1929.D	97	87	93
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84

Surrogate Compounds Recovery Limits

S1 = 13C2-PFHxA 70-130%
S2 = 13C2-PFDA 70-130%
S3 = d5-EtFOSAA 70-130%

(a) Outside control limits.

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Stueberg
Commissioner

June 13, 2017

Bintula Patal
21 Hillcrest Circle
Westfield, MA 01085

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Ms. Patel:

The Department of Environmental Protection collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 8 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
21 Hillcrest Circle
Westfield, RTN 1-20093
June 13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 21 Hillcrest Circle
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Bintula Patal
2. Street Address: 21 Hillcrest Circle
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 21 Hillcrest Circle
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

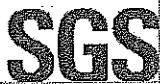
When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



ACCUTEST
New England

06/07/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

21 Hillcrest, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50448

Sampling Date: 05/18/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 27



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Marty Vitanza 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AII171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

New England • 50 D'Angelo Drive • Building 1 • Marlborough, MA 01752 • tel: 508-481-6200 • fax: 508-481-7753 • <http://www.accutest.com>

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Review standard terms at: <http://www.sgs.com/en/terms-and-conditions>



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ACCUTEST
MC50448

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Sample Summary

ATC Group Services LLC.

Job No: MC50448

21 Hillcrest, Westfield, MA
 Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50448-1	05/18/17	08:48 JJ	05/19/17	DW	Drinking Water TB	TRIP BLANK
MC50448-2	05/18/17	08:45 JJ	05/19/17	DW	Drinking Water FB	21 HILLCREST-FIELD BLANK
MC50448-3	05/18/17	08:47 JJ	05/19/17	DW	Drinking Water	21 HILLCREST-1
MC50448-4	05/18/17	08:48 JJ	05/19/17	DW	Drinking Water	21 HILLCREST-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50448

Site: 21 Hillcrest, Westfield, MA

Report Date 6/7/2017 11:30:34 AM

1 Sample(s), 1 Trip Blank(s) were collected on 05/18/2017 and were received at SGS Accutest New England on 05/19/2017 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC50448. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65200

- MC50448-1,3: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50448).

Wednesday, June 07, 2017

Page 1 of 1

SGS

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ACCUTEST
MC50448

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50448

Site: ATCMAS: 21 Hillcrest, Westfield, MA

Report Date: 6/6/2017 7:12:05 PM

1 Sample(s), 1 Trip Blank(s) were collected on 05/18/2017 and were received at SGS Accutest Southeast (SASE) on 05/20/2017 properly preserved, at 1.1 Deg. C and intact. These Samples received an SASE job number of MC50448. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65200

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) MC50448-3 have surrogates outside control limits.

MC50448-3: Confirmed by re-extraction and reanalysis.

MC50448-3 for d5-NEIFOSAA: Outside control limits.

Matrix: DW

Batch ID: OP65281

MC50448-3: Confirmation run for surrogate recoveries.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date June 6, 2017

Kim Benham, Client Services (signature on file)

Tuesday, June 06, 2017

Page 1 of 1

Summary of Hits

Job Number: MC50448
Account: ATC Group Services LLC.
Project: 21 Hillcrest, Westfield, MA
Collected: 05/18/17



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

MC50448-1 TRIP BLANK

No hits reported in this sample.

MC50448-3 21 HILLCREST-1

No hits reported in this sample.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK	Date Sampled: 05/18/17
Lab Sample ID: MC50448-1	Date Received: 05/19/17
Matrix: DW - Drinking Water TB	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 21 Hillcrest, Westfield, MA	

4.1
4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1797.D	1	06/01/17 00:49	AFL	05/26/17 10:00	F:OP65200	F:S2Q48
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.0077	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.0077	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.0077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0077	ug/l	
2355-31-9	MeFOSAA	ND		0.019	ug/l	
2991-50-6	EiFOSAA	ND		0.019	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	94%		70-130%
	13C2-PFDA	86%		70-130%
	d5-EiFOSAA	77%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

4.2
4

Client Sample ID: 21 HILLCREST-1	Date Sampled: 05/18/17
Lab Sample ID: MC50448-3	Date Received: 05/19/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 21 Hillcrest, Westfield, MA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1798.D	1	06/01/17 01:11	AFL	05/26/17 10:00	F:OP65200	F:S2Q48
Run #2 ^b	2Q1939.D	1	06/06/17 01:25	AFL	06/02/17 09:30	F:OP65281	F:S2Q51

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	260 ml	1.0 ml

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0080	ug/l	
2355-31-9	MeFOSAA	ND		0.020	ug/l	
2991-50-6	EtFOSAA	ND		0.020	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	91%	93%	70-130%
	13C2-PFDA	74%	64% ^c	70-130%
	d5-EtFOSAA	69% ^c	78%	70-130%

- (a) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.
- (b) Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.
- (c) Outside control limits.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-2753
www.accutest.com

FED-EX Tracking #		Bode Order Control #	
SGS Accutest Quote #		SGS Accutest Job # MC50448	
Requested Analysis (see TEST CODE sheet)			Matrix Codes
OPA Method SBE Method Total As, Iron, Hardness, TDS			DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
			LAB USE ONLY
INITIAL ASSESSMENT <input checked="" type="checkbox"/>			
LABEL VERIFICATION <input checked="" type="checkbox"/>			

Company Name Arc Group Services		Project Name Hillcrest	
Street Address 73 William Franks Dr		Street Hillcrest	
City West Springfield MA 01089		City Westfield	
Project Contact Rob Smith @ arcassociates.com		Billing Information (if different from Report to)	
Phone # 413-781-0070		Company Name	
Fax # 413-781-0070		Street Address	
Sample Name(s) Jen Sny		City	
Project Manager Rob Smith		State	
Client POC		Zip	
Altitude		POB	

SGS Account Sample #	Field ID / Point of Collection	MEQ/SH Val #	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved bottles																
								PH	PH3	PH3A	PH3B	PH3C	PH3D	PH3E	PH3F	PH3G	PH3H	PH3I	PH3J					
-1	TRIP Blank		5/17/17	8:00p	SS	DW	1																	
-2	21 Hillcrest - Field Blank		5/18/17	8:45	SS	DW	2	X	X	X														
-3	21 Hillcrest - 1		5/18/17	8:47	SS	DW	6			X														
-4	21 Hillcrest - 2		5/18/17	8:48	SS	DW	8			X														

Turnaround Time (Business days)	Approved By (SGS Accutest PM): / Date:	Commercial "A" (Level 1)	NYASP Category A
<input type="checkbox"/> Std. 10 Business Days		Commercial "B" (Level 2)	NYASP Category B
<input checked="" type="checkbox"/> Std. 5 Business Days (By Contract only)		FULLT1 (Level 3+4)	State Forms
<input type="checkbox"/> 5 Day RUSH		CT RCP	EDD Format
<input type="checkbox"/> 3 Day EMERGENCY		MA MCP	Other
<input type="checkbox"/> 2 Day EMERGENCY		Commercial "A" = Results Only Commercial "B" = Results + QC Summary	
<input type="checkbox"/> 1 Day EMERGENCY			

Emergency & Rush TIA data available via Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.

1	Requisitioned by Sampler: J. Sny	Date Time: 5/18/17 9:30	Received By: Scale Reference	2	Requisitioned By: J Sny	Date Time: 5/19/17 3:50	Received By: Rob Smith
3	Requisitioned by Sampler: B-C	Date Time: 5-19-17 8:00	Received By: B-C	4	Requisitioned By:	Date Time:	Received By:
5	Requisitioned by:	Date Time:	Received By:	Custody Seal #			

Initial Preserved where applicable On Ice Cooler Temp. **25.1.1**

Not Initial

MC50448: Chain of Custody
Page 1 of 3

5.1 5



SGS Accutest Sample Receipt Summary

Job Number: MC50448

Client: ATC

Project: 21 HILLCREST

Date / Time Received: 5/19/2017 6:00:00 PM

Delivery Method: SGS COURIER

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1 (0.5 / 0); #2 (1.1 / 0.6);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smp'l Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IRGUN1 | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y

N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

CQC seems to be checked incorrectly.

-2 21 Hillcrest-Field Blank: checked for As, Fe, Hardness, and TOC. Only (2) 250ml N/P poly received for volume

-3 21 Hillcrest-1: Only checked for EPA 537 Modified. Received (2) 250ml N/P poly, (3) 40ml HCL pres. vials, and (1) 500ml HNO3 pres poly.

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample rec'd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y

N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume rec'd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

5.1

5

MC50448: Chain of Custody

Page 2 of 3



Sample Receipt Summary - Problem Resolution

Job Number: MC50448

CSR: Jeremy Vienneau

Response Date 5/23/2017

Response: The client confirmed the COC was incorrectly checked off and Hillcrest-1 should be run for 537.

5.1

5

MC50448: Chain of Custody
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SGS

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ACCUTEST
MC50448



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

5.2
5

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough Project #: MC50448

Project Location: 21 Hillcrest, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50448-1,MC50448-3

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [Signature] Position: Laboratory Director

Printed Name: H. (Brad) Madadian Date: 07-Jun-17



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50448

21 Hillcrest, Westfield, MA
 Project No: 183EM00170

5.3
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50448-1 Collected: 18-MAY-17 08:48 By: JJ Received: 19-MAY-17 By: TF TRIP BLANK						
MC50448-1	EPA 537	01-JUN-17 00:49	AFL	26-MAY-17 AFL		LC537LIST
MC50448-3 Collected: 18-MAY-17 08:47 By: JJ Received: 19-MAY-17 By: TF 21 HILLCREST-1						
MC50448-3	EPA 537	01-JUN-17 01:11	AFL	26-MAY-17 AFL		LC537LIST
MC50448-3	EPA 537	06-JUN-17 01:25	AFL	02-JUN-17 AFL		LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50448
Account: ATC Group Services LLC.
Project: 21 Hillcrest, Westfield, MA
Collected: 05/18/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50448

Misc. Forms

9**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

Company Name		Project Name		Project Information												Reference #	Batch Order Control #
ATC Group Services		Hillcrest		Billing Information (If different from Report to)												SGS Accutest Job #	MC50448
Street Address		Street		Company Name												Reference #	Batch Order Control #
73 William Franks Dr		Hillcrest		Street Address												Reference #	Batch Order Control #
City		City		City												Reference #	Batch Order Control #
West Springfield MA 01089		Westfield		State												Reference #	Batch Order Control #
Project Contact		Project #		City												Reference #	Batch Order Control #
Rob Smith @ atcassociates.com		Client POF		State												Reference #	Batch Order Control #
Phone #		Client POF		Zip												Reference #	Batch Order Control #
413-781-0070		Project Manager		City												Reference #	Batch Order Control #
Jendrey		Rob Smith		State												Reference #	Batch Order Control #
Fax #		Attention		Zip												Reference #	Batch Order Control #
413-781-0070		PO#		City												Reference #	Batch Order Control #
Sample(s) Name(s)		Collection		Number of preserved Bottles												Reference #	Batch Order Control #
Jendrey		MECHANI Val #		Date												Reference #	Batch Order Control #
Field ID / Point of Collection		Time		Sampled by												Reference #	Batch Order Control #
TR, P, Blank		8:00p		Matrix												Reference #	Batch Order Control #
21 Hillcrest Field Blank		8:45		# of bottles												Reference #	Batch Order Control #
21 Hillcrest-1		8:47		PCB												Reference #	Batch Order Control #
21 Hillcrest-2		8:48		INCH												Reference #	Batch Order Control #
				VOC												Reference #	Batch Order Control #
				METALS												Reference #	Batch Order Control #
				OTHER												Reference #	Batch Order Control #
				NYASP												Reference #	Batch Order Control #
				STATE												Reference #	Batch Order Control #
				EDD												Reference #	Batch Order Control #
				OTHER												Reference #	Batch Order Control #
				Commercial "A" = Results Only												Reference #	Batch Order Control #
				Commercial "B" = Results + QC Summary												Reference #	Batch Order Control #
				Comments / Special Instructions												Reference #	Batch Order Control #
				Hold Field Blank and Sample - 3												Reference #	Batch Order Control #
				Also hold sample - for												Reference #	Batch Order Control #
				total As, Iron, Hardness, TOC												Reference #	Batch Order Control #
Turnaround Time (Business days)		Approved By (SGS Accutest PM):		Commercial "A" (Level 1)												Reference #	Batch Order Control #
<input type="checkbox"/> Std. 10 Business Days		Date:		Commercial "B" (Level 2)												Reference #	Batch Order Control #
<input checked="" type="checkbox"/> Std. 5 Business Days (By Contract only)				FULLT1 (Level 3+4)												Reference #	Batch Order Control #
<input type="checkbox"/> 5 Day RUSH				CYRCP												Reference #	Batch Order Control #
<input type="checkbox"/> 3 Day EMERGENCY				MA MCP												Reference #	Batch Order Control #
<input type="checkbox"/> 2 Day EMERGENCY				Commercial "A" = Results Only												Reference #	Batch Order Control #
<input type="checkbox"/> 1 Day EMERGENCY				Commercial "B" = Results + QC Summary												Reference #	Batch Order Control #
Emergency & Rush TIA data available via Lablink				Sample Custody must be documented below each time samples change possession, including courier delivery.												Reference #	Batch Order Control #
Retinquished by Sampler:		Date/Time:		Received By:												Reference #	Batch Order Control #
J. Scan		5/17/17 9:30		S. LePage												Reference #	Batch Order Control #
Retinquished by Sampler:		Date/Time:		Received By:												Reference #	Batch Order Control #
B.C.		5-19-17		B.C.												Reference #	Batch Order Control #
Retinquished by:		Date/Time:		Received By:												Reference #	Batch Order Control #
Fz		05/20/17 10:30		C. f.												Reference #	Batch Order Control #
Custody Seal #		Intact		Preserved when applicable												Reference #	Batch Order Control #
		<input checked="" type="checkbox"/>		<input type="checkbox"/>												Reference #	Batch Order Control #
		On Ice		Cooler Temp.												Reference #	Batch Order Control #
		<input checked="" type="checkbox"/>		2.5, 1.1												Reference #	Batch Order Control #

6.1
6

SGS Accutest Sample Receipt Summary

Job Number: MC50448

Client: ATC

Project: HILLCREST

Date / Time Received: 5/20/2017 10:30:00 AM

Delivery Method: FX

Airbill #s: 727375162573

Therm ID: IR 1; Therm CF: 0.4; # of Coolers: 1
 Cooler Temps (Raw Measured) °C: Cooler : (0.7); Cooler 1: (0.1);
 Cooler Temps (Corrected) °C: Cooler : (1.1); Cooler 1: (0.5);

<u>Cooler Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Temp criteria achieved	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

<u>Sample Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Sample labels present on bottles	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume/containers recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Condition of sample	Intact			
5. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match Sample Label	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
7. VOCs have headspace	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Trip Blank Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	<u>W</u>	<u>or</u>	<u>S</u>	<u>N/A</u>
3. Type Of TB Received	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Misc. Information
 Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001 Rev. Date 05/24/17 Technician: CARLOSP Date: 5/20/2017 10:30:00 A Reviewer: PDS Date: 6/7/2017

6.1
6

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50448

ATCMAS: 21 Hillcrest, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50448-1 Collected: 18-MAY-17 08:48 By: JJ Received: 19-MAY-17 By: CP TRIP BLANK						
MC50448-1	EPA 537	01-JUN-17 00:49	NAF	26-MAY-17	MB	LC537LIST
MC50448-3 Collected: 18-MAY-17 08:47 By: JJ Received: 19-MAY-17 By: CP 21 HILLCREST-1						
MC50448-3	EPA 537	01-JUN-17 01:11	NAF	26-MAY-17	MB	LC537LIST
MC50448-3	EPA 537	06-JUN-17 01:25	NAF	02-JUN-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50448
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 21 Hillcrest, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-MB	2Q1786.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50448-1, MC50448-3

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	ND	0.020	ug/l	
2991-50-6	EtFOSAA	ND	0.020	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	102%	70-130%
	13C2-PFDA	107%	70-130%
	d5-EtFOSAA	85%	70-130%

7.1.1
7

Blank Spike Summary

Job Number: MC50448
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 21 Hillcrest, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-BS	2Q1785.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50448-1, MC50448-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.154	0.157	102	70-130
375-85-9	Perfluoroheptanoic acid	0.154	0.176	114	70-130
335-67-1	Perfluorooctanoic acid	0.154	0.176	114	70-130
375-95-1	Perfluorononanoic acid	0.154	0.180	117	70-130
335-76-2	Perfluorodecanoic acid	0.154	0.160	104	70-130
2058-94-8	Perfluoroundecanoic acid	0.154	0.166	108	70-130
307-55-1	Perfluorododecanoic acid	0.154	0.130	84	70-130
72629-94-8	Perfluorotridecanoic acid	0.154	0.116	75	70-130
376-06-7	Perfluorotetradecanoic acid	0.154	0.111	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.154	0.171	111	70-130
355-46-4	Perfluorohexanesulfonic acid	0.154	0.181	118	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.154	0.161	105	70-130
2355-31-9	MeFOSAA	0.154	0.184	120	70-130
2991-50-6	EtFOSAA	0.154	0.169	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	111%	70-130%
	13C2-PFDA	118%	70-130%
	d5-EtFOSAA	98%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatiles Internal Standard Area Summary

Job Number: MC50448
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 21 Hillcrest, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1783.D	Injection Time:	19:44
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	51592	4.38	121075	6.94	80626	6.91	41993	7.57	43847	7.51	180708	13.07
Upper Limit ^c	67239	5.38	160989	7.94	92905	7.91	55710	8.57	56839	8.51	217633	14.07
Lower Limit ^d	33620	3.38	80494	5.94	46453	5.91	27855	6.57	28419	6.51	108816	12.07

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65200-BS	51974	4.40	125480	6.94	80378	6.91	41812	7.58	45865	7.51	174916	13.07
OP65200-MB	51025	4.40	112651	6.94	79329	6.91	40513	7.58	44232	7.51	166827	13.04
ZZZZZZ	49707	4.40	115571	6.95	79567	6.93	40176	7.58	44028	7.51	162546	13.20
ZZZZZZ	45000	4.40	112438	6.94	73978	6.93	37997	7.58	41784	7.51	154581	13.22
ZZZZZZ	51556	4.40	119562	6.95	80653	6.93	40934	7.59	44230	7.51	167238	13.17
MC50445-2	49613	4.41	121847	6.95	85331	6.93	41953	7.59	47423	7.53	170676	13.22
OP65200-MS	52146	4.41	126442	6.95	79638	6.93	42098	7.59	45993	7.53	173344	13.12
OP65200-MSD	52428	4.41	127024	6.95	80987	6.93	42360	7.59	46691	7.53	174018	13.08

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50448
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 21 Hillcrest, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1793.D	Injection Time:	23:22
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	53549	4.41	124338	6.95	80885	6.93	43054	7.59	45631	7.53	180941	13.09
Upper Limit ^c	67239	5.41	160989	7.95	92905	7.93	55710	8.59	56839	8.53	217633	14.09
Lower Limit ^d	33620	3.41	80494	5.95	46453	5.93	27855	6.59	28419	6.53	108816	12.09

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	50095	4.41	128610	6.96	86324	6.94	43190	7.60	49265	7.53	176796	13.25
ZZZZZZ	50542	4.41	121368	6.96	81919	6.94	40990	7.60	44784	7.53	167982	13.25
MC50448-1	51367	4.42	120767	6.96	84395	6.94	41457	7.60	46485	7.53	168609	13.28
MC50448-3 ^e	50479	4.42	121226	6.96	84095	6.94	41278	7.60	46645	7.53	166819	13.29
ZZZZZZ	51715	4.42	120864	6.96	81455	6.94	41150	7.60	44644	7.53	167392	13.19
ZZZZZZ	50506	4.42	121004	6.96	80467	6.94	41022	7.60	45067	7.53	167742	13.13
S2Q48-ECC47	48769	4.43	117087	6.97	69109	6.95	42623	7.63	42206	7.53	150668	13.19

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Confirmed by re-extraction and reanalysis.

7.3.2
7

Semivolatiles Internal Standard Area Summary

Job Number: MC50448
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 21 Hillcrest, Westfield, MA

Check Std:	S2Q51-CC51	Injection Date:	06/05/17
Lab File ID:	2Q1931.D	Injection Time:	22:30
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	45018	4.37	91520	6.99	59879	6.96	37409	7.65	30542	7.54	106448	13.28
Check Std ^b	45639	4.40	91716	6.99	61909	6.96	37443	7.65	31540	7.54	107463	13.18
Upper Limit ^c	63025	5.40	128128	7.99	83831	7.96	52373	8.65	42759	8.54	149027	14.18
Lower Limit ^d	31513	3.40	64064	5.99	41915	5.96	26186	6.65	21379	6.54	74514	12.18

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	46804	4.36	97968	6.96	68501	6.94	39246	7.63	35036	7.54	110719	13.12
ZZZZZZ	48481	4.41	98302	6.97	69306	6.95	39286	7.64	34031	7.54	111464	13.20
ZZZZZZ	46764	4.41	95823	6.99	67523	6.96	39335	7.65	34671	7.54	111840	13.24
ZZZZZZ	47157	4.41	95928	6.96	67186	6.94	38193	7.63	34037	7.54	110228	13.23
ZZZZZZ	47078	4.42	95976	6.99	68157	6.96	39807	7.65	34569	7.54	112619	13.24
ZZZZZZ	47426	4.41	94837	6.99	66938	6.96	38925	7.64	34298	7.54	111674	13.17
MC50448-3 ^e	47850	4.46	100902	7.06	71802	7.03	42015	7.74	38144	7.54	113080	13.13
S2Q51-ECC51	47635	4.45	89867	6.97	58466	6.95	36769	7.63	29880	7.54	108155	13.08

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFD_oDA

- (a) Initial Cal is: S2Q51-ICC51 2Q1909.D 06/05/17 13:58. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Confirmation run for surrogate recoveries.

7.3.3
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50448
Account: ALNE SGS Accutest New England
Project: ATCMAS: 21 Hillcrest, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50448-1	2Q1797.D	94	86	77
MC50448-3	2Q1798.D	91	74	69* a
MC50448-3	2Q1939.D	93	64* a	78
OP65200-BS	2Q1785.D	111	118	98
OP65200-MB	2Q1786.D	102	107	85

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

(a) Outside control limits.

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

June 13, 2017

Shirley Mongeau
16 Mockingbird Lane
Westfield, MA 01085

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Mrs. Mongeau:

The Department of Environmental Protection collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 15 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
16 Mockingbird Lane
Westfield, RTN 1-20093
Jun13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

cc w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 16 Mockingbird Lane
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Shirley Mongeau
2. Street Address: 16 Mockingbird Lane
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 16 Mockingbird Lane
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.*e-Hardcopy 2.0*
*Automated Report***Technical Report for****ATC Group Services LLC.**

16 Mockingbird, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50382

Sampling Date: 05/10/17

Report to:ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 25

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.
H. (Brad) Madadian
Lab Director

Client Service contact: Marty Vitanza 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AII171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC.

Job No: MC50382

16 Mockingbird, Westfield, MA
Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
MC50382-1	05/10/17	09:55 JB	05/11/17	DW Drinking Water FB	16 MOCKINGBIRD FIELD BLANK
MC50382-2	05/10/17	10:05 JB	05/11/17	DW Drinking Water	16 MOCKINGBIRD-1
MC50382-3	05/10/17	10:06 JB	05/11/17	DW Drinking Water	16 MOCKINGBIRD-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50382

Site: 16 Mockingbird, Westfield, MA

Report Date 6/7/2017 3:09:54 PM

1 Sample(s) were collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.4 Deg. C and intact. These Samples received a job number of MC50382. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65104

- MC50382-2: Analysis performed at SGS Accutest, Orlando FL.

MC50382-2, Batch OP65281: Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50382).

Wednesday, June 07, 2017

Page 1 of 1

SGS

4 of 25
ACCUTEST
MC50382

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50382

Site: ATCMAS: 16 Mockingbird, Westfield, MA

Report Date: 6/6/2017 7:10:47 PM

1 Sample(s) were collected on 05/10/2017 and were received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of MC50382. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65104

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) MC50382-2 have surrogates outside control limits. Probable cause is due to matrix interference.

MC50382-2: Confirmed ND by re-extraction and reanalysis.

MC50382-2 for d5-NEtFOSAA: Outside control limits.

Matrix: DW

Batch ID: OP65281

MC50382-2: Confirmation run for surrogate recoveries.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date June 6, 2017

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: MC50382
Account: ATC Group Services LLC.
Project: 16 Mockingbird, Westfield, MA
Collected: 05/10/17



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

MC50382-2 16 MOCKINGBIRD-1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	16 MOCKINGBIRD-1	Date Sampled:	05/10/17
Lab Sample ID:	MC50382-2	Date Received:	05/11/17
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 537 EPA 537		
Project:	16 Mockingbird, Westfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1655.D	1	05/26/17 21:03	AFL	05/19/17 09:00	F:OP65104	F:S2Q45
Run #2 ^b	2Q1930.D	1	06/05/17 22:08	AFL	06/02/17 09:30	F:OP65281	F:S2Q51

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	116%	105%	70-130%
	13C2-PFDA	79%	79%	70-130%
	d5-EtFOSAA	64% ^c	86%	70-130%

(a) Confirmed ND by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.

(b) Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.

(c) Outside control limits.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4.1
4

Misc. Forms

67

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-8200 FAX: 508-481-7763
www.accutest.com

PREM PAGE 1 OF 1

Form containing client reporting information, project information, collection data table, and chain of custody details. Includes handwritten entries for company name (AFC Group Services), project name (16 Mockingbird), and collection records for three samples.

5.1
5

SGS Accutest NE Sample Receipt Summary

Job Number: MC50382

Client: ATC

Project: 16 MOCKINGBIRD

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1 (3.9 / 3.4); #2 (4.1 / 3.6);

Cooler Security

- | | | | |
|---------------------------|--|------------------------|--|
| | <u>Y or N</u> | | <u>Y or N</u> |
| 1. Custody Seals Present: | <input type="checkbox"/> <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> <input checked="" type="checkbox"/> | 4. Smp'l Dates/Time OK | <input checked="" type="checkbox"/> <input type="checkbox"/> |

Cooler Temperature

- | | |
|----------------------------|--|
| | <u>Y or N</u> |
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Thermometer ID: | IRGUN1; |
| 3. Cooler media: | Ice (Bag) |
| 4. No. Coolers: | 2 |

Quality Control Preservation

- | | | |
|---------------------------------|---|------------|
| | <u>Y or N</u> | <u>N/A</u> |
| 1. Trip Blank present / cooler: | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |

Sample Integrity - Documentation

- | | |
|--|--|
| | <u>Y or N</u> |
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> <input type="checkbox"/> |

Sample Integrity - Condition

- | | |
|----------------------------------|--|
| | <u>Y or N</u> |
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Condition of sample: | Intact |

Sample Integrity - Instructions

- | | | |
|---|--|-------------------------------------|
| | <u>Y or N</u> | <u>N/A</u> |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments NOTE: 537 volume received
-1, -2, -3: (2) 120ml N/P poly

5.1
5



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

5.2
5

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough Project #: MC50382

Project Location: 16 Mockingbird, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50382-2,MC50382-3

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [Signature] Position: Laboratory Director
Printed Name: H. (Brad) Madadian Date: 07-Jun-17



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50382

16 Mockingbird, Westfield, MA
Project No: 183EM00170

53
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50382-2 Collected: 10-MAY-17 10:05 By: JB Received: 11-MAY-17 By: TP						
16 MOCKINGBIRD-1						

MC50382-2 EPA 537	26-MAY-17 21:03	AFL	19-MAY-17	AFL	LC537LIST
MC50382-2 EPA 537	05-JUN-17 22:08	AFL	02-JUN-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50382
Account: ATC Group Services LLC.
Project: 16 Mockingbird, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50382

Misc. Forms

6**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50382 CLIENT: ALNE PROJECT: 16 Mockingbird, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17; 10:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 72737516 2786

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____
 TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR +0.4
- OBSERVED TEMPS: 2.2
- CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE J. Coe 05-12-17

NF 02/16

REVIEWER SIGNATURE/DATE [Signature] 05/12/17

receipt confirmation 020116.xls

6.1
6

MC50382: Chain of Custody
Page 2 of 3

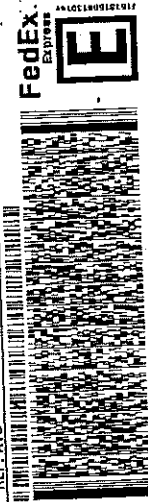


ORIGIN ID: 88FA CS08D 481-6200
SAMPLE TRANSFER LABORATORIES
500 PANGLOSS DR
455 TECH CENTER BLDG 1
UNION CITY TN 37515
SHIP DATE: 11MAY17
PCKT WT: 46.0 LB. MAX
CRD: 09BD801/CRPE2815

BILL RECIPIENT

TO
SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND RD
SUITE C-15
ORLANDO FL 328115803

(407) 461-6700
REF: ATC



TRKA 7273 7516 2286
FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

EA ORLA

32811
FL-US MCO



MC50382: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50382

ATCMAS: 16 Mockingbird, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50382-2 Collected: 10-MAY-17 10:05 By: JB Received: 11-MAY-17 By: JC 16 MOCKINGBIRD-1						
MC50382-2	EPA 537	26-MAY-17 21:03	NAF	19-MAY-17	MB	LC537LIST
MC50382-2	EPA 537	05-JUN-17 22:08	NAF	02-JUN-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50382
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 16 Mockingbird, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50382-2

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EtFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries	Limits	
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EtFOSAA	84%	70-130%

7.11
7

Blank Spike Summary

Job Number: MC50382
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 16 Mockingbird, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	2Q1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50382-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EtFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50382
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 16 Mockingbird, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
ZZZZZZ	35992	4.37	93034 ^e	6.90	54464	6.88	30071 ^e	7.52	33474	7.51	120712 ^e	13.08
ZZZZZZ	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
ZZZZZZ	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
ZZZZZZ	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Outside control limits.

7.3.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50382
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 16 Mockingbird, Westfield, MA

Check Std:	S2Q51-CC51	Injection Date:	06/05/17
Lab File ID:	2Q1922.D	Injection Time:	19:14
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	45018	4.37	91520	6.99	59879	6.96	37409	7.65	30542	7.54	106448	13.28
Check Std ^b	44043	4.37	90275	6.99	61094	6.96	37624	7.65	31443	7.54	106945	13.23
Upper Limit ^c	67527	5.37	137280	7.99	89819	7.96	56114	8.65	45813	8.54	159672	14.23
Lower Limit ^d	22509	3.37	45760	5.99	29940	5.96	18705	6.65	15271	6.54	53224	12.23

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65281-BS ^e	46162	4.42	91647	6.99	60248	6.96	37281	7.64	31411	7.54	105979	13.24
OP65281-MB	53757	4.37	97301	6.96	69339	6.94	41834	7.63	36218	7.54	120364	13.20
ZZZZZZ	45592	4.38	89203	6.97	63616	6.95	36919	7.64	32069	7.54	104631	13.10
ZZZZZZ	48991	4.37	95309	6.96	67639	6.94	38697	7.63	34033	7.54	110606	13.15
ZZZZZZ	46904	4.37	93708	6.96	66748	6.94	38697	7.63	33010	7.54	110860	13.09
ZZZZZZ	45488	4.40	87432	6.99	62790	6.96	36754	7.65	31868	7.54	103246	13.19
MC50382-2 ^f	48341	4.41	94674	6.97	66836	6.95	39000	7.64	34005	7.54	110894	13.24

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q51-ICC51 2Q1909.D 06/05/17 13:58. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
- (e) Insufficient sample for MS/MSD.
- (f) Confirmation run for surrogate recoveries.

7.32
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50382
Account: ALNE SGS Accutest New England
Project: ATCMAS: 16 Mockingbird, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50382-2	2Q1930.D	105	79	86
MC50382-2	2Q1655.D	116	79	64* ^a
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84

Surrogate Compounds	Recovery Limits
---------------------	-----------------

S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

(a) Outside control limits.

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Suuberg
Commissioner

June 13, 2017

Norman & Nancy Scott
42 Old Holyoke Road
Westfield, MA 01085

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Mr. & Mrs. Scott:

The Department of Environmental Protection collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 15 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
42 Old Holyoke Road
Westfield, RTN 1-20093
Jun13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

cc w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 42 Old Holyoke Road
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Norman & Nancy Scott
2. Street Address: 42 Old Holyoke Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 42 Old Holyoke Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS

ACCUTEST New England

05/31/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

42 Holyoke, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50380

Sampling Date: 05/10/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089

ATTN: Rob Smith

Total number of pages in report: 25



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AII171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

New England • 50 D'Angelo Drive • Building 1 • Marlborough, MA 01752 • tel: 508-481-6200 • fax: 508-481-7753 • <http://www.accutest.com>

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: <http://www.sgs.com/en/terms-and-conditions>

1 of 25
ACCUTEST
MC50380

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Sample Summary

ATC Group Services LLC.

Job No: MC50380

42 Holyoke, Westfield, MA
Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50380-1	05/10/17	08:15 JB	05/11/17	DW	Drinking Water FB	42 OLD HOLYOKE FIELD BLANK
MC50380-2	05/10/17	08:25 JB	05/11/17	DW	Drinking Water	42 OLD HOLYOKE-1
MC50380-3	05/10/17	08:26 JB	05/11/17	DW	Drinking Water	42 OLD HOLYOKE-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50380

Site: 42 Holyoke, Westfield, MA

Report Date 5/31/2017 6:32:26 PM

1 Sample was collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.4 Deg. C and intact. These Samples received a job number of MC50380. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65104

- MC50380-2: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50380).

Wednesday, May 31, 2017

Page 1 of 1

SGS

4 of 25
ACCUTEST
MC50380

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50380

Site: ATCMAS: 42 Holyoke, Westfield, MA

Report Date: 5/30/2017 5:59:13 PM

1 Sample(s) were collected on 05/10/2017 and were received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of MC50380. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65104

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date May 30, 2017

Kim Benham, Client Services (signature on file)

Tuesday, May 30, 2017

Page 1 of 1



Summary of Hits

Job Number: MC50380
Account: ATC Group Services LLC.
Project: 42 Holyoke, Westfield, MA
Collected: 05/10/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC50380-2	42 OLD HOLYOKE-1					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 42 OLD HOLYOKE-1	Date Sampled: 05/10/17
Lab Sample ID: MC50380-2	Date Received: 05/11/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 42 Holyoke, Westfield, MA	

4.1
4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1632.D	1	05/26/17 12:19	AFL	05/19/17 09:00	F:OP65104	F:S2Q45
Run #2							

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	112%		70-130%
	13C2-PFDA	77%		70-130%
	d5-EtFOSAA	76%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

SGS Accutest NE Sample Receipt Summary

Job Number: MC50380

Client: ATC

Project: 42 HOLYOKE

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #s:

Cooler Temps (Initial/Adjusted): #1 (3.9 / 3.4); #2 (4.1 / 3.6);

Cooler Security Y or N Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | : IRGUN1; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 2 | |

Quality Control Preservation Y or N N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments NOTE: 537 volume received
-1, -2, -3: (2) 120ml N/P poly

5.1
5



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

5.2
5

Laboratory Name: SGS Accutest- Marlborough Project #: MC50380

Project Location: 42 Holyoke, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50380-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: H. Madadian Position: Laboratory Director

Printed Name: H. (Brad) Madadian Date: 31-May-17



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50380

42 Holyoke, Westfield, MA
Project No: 183EM00170

5.3
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50380-2 Collected: 10-MAY-17 08:25 By: JB Received: 11-MAY-17 By: TF 42 OLD HOLYOKE-1						
MC50380-2	EPA 537	26-MAY-17 12:19	AFL	19-MAY-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50380
Account: ATC Group Services LLC.
Project: 42 Holyoke, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50380



Misc. Forms

6**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50380 CLIENT: ALNE PROJECT: 42 Holyoke, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17 10:05 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 72737516 2286

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR +0.4
 OBSERVED TEMPS: 2.2
 CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

6.1
 6

TECHNICIAN SIGNATURE/DATE Leos-12-17 REVIEWER SIGNATURE/DATE [Signature] 05/12/17
 NF 02/16 receipt confirmation 020116.xls

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50380

ATCMAS: 42 Holyoke, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50380-2 Collected: 10-MAY-17 08:25 By: JB Received: 11-MAY-17 By: JC 42 OLD HOLYOKE-1						
MC50380-2	EPA 537	26-MAY-17 12:19	NAF	19-MAY-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50380
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 42 Holyoke, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50380-2

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EiFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries	Limits	
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EiFOSAA	84%	70-130%

7.1.1
7

Blank Spike Summary

Job Number: MC50380
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 42 Holyoke, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	ZQ1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50380-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EtFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatle Internal Standard Area Summary

Job Number: MC50380
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 42 Holyoke, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
ZZZZZZ	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
ZZZZZZ	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
ZZZZZZ	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDODA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50380
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 42 Holyoke, Westfield, MA

Check Std:	S2Q45-CC44	Injection Date:	05/26/17
Lab File ID:	2Q1622.D	Injection Time:	08:25
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	43502	4.42	101124	6.94	54012	6.92	39139	7.57	33784	7.53	113531	13.24
Upper Limit ^c	71162	5.42	191871	7.94	103576	7.92	60508	8.57	58898	8.53	242876	14.24
Lower Limit ^d	35581	3.42	95936	5.94	51788	5.92	30254	6.57	29449	6.53	121438	12.24

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	49362	4.41	118499	6.92	64033	6.90	42183	7.55	40708	7.53	132367	13.12
MC50380-2	50481	4.40	123732	6.92	65441	6.90	44216	7.55	44527	7.53	143223	13.11

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFD_oDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.2
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50380
Account: ALNE SGS Accutest New England
Project: ATCMAS: 42 Holyoke, Westfield, MA

Method: EPA 537 Matrix: DW

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50380-2	2Q1632.D	112	77	76
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

7.4.1





Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Suuberg
Commissioner

June 13, 2017

Massachusetts Foundation for Learning Disabilities, Inc.
c/o Martin Pion, President
533 North Road
Westfield, MA 01085

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Mr. Pion:

The Department of Environmental Protection collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 15 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
533 North Road
Westfield, RTN 1-20093
June 13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 533 North Road
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: MA Foundation for Learning Disabilities, Inc.
2. Street Address: 533 North Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 533 North Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

White Oak, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50379

Sampling Date: 05/10/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 34



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Marty Vitanza 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AH171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.



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Sample Summary

ATC Group Services LLC.

Job No: MC50379

White Oak, Westfield, MA
 Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50379-1	05/10/17	16:14 JB	05/11/17	DW	Drinking Water TB	TRIP BLANK
MC50379-2	05/10/17	07:30 JB	05/11/17	DW	Drinking Water FB	WHITE OAK FIELD BLANK
MC50379-3	05/10/17	07:40 JB	05/11/17	DW	Drinking Water	WHITE OAK-1
MC50379-4	05/10/17	07:41 JB	05/11/17	DW	Drinking Water	WHITE OAK-1

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50379

Site: White Oak, Westfield, MA

Report Date 6/7/2017 11:25:31 AM

2 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.6 Deg. C and intact. These Samples received a job number of MC50379. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW	Batch ID: F:OP65104
-------------------	----------------------------

- Analysis performed at SGS Accutest, Orlando FL.

Matrix: DW	Batch ID: F:OP65145
-------------------	----------------------------

- Analysis performed at SGS Accutest, Orlando FL.
- MC50379-2, -4, Batch OP65281: Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50379).

Wednesday, June 07, 2017

Page 1 of 1

SGS

4 of 34
ACCUTEST
MC50379

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50379

Site: ATCMAS: White Oak, Westfield, MA

Report Date: 6/6/2017 7:09:59 PM

2 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were collected on 05/10/2017 and were received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of MC50379. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW **Batch ID:** OP65104

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Matrix: DW **Batch ID:** OP65145

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for Perfluorododecanoic acid, Perfluorotetradecanoic acid, Perfluorotridecanoic acid are outside control limits.

Sample(s) OP65145-MB, MC50379-4, MC50379-2 have surrogates outside control limits.

OP65145-MB for 13C2-PFDA: Outside control limits. Sample was ND.

OP65145-BS: Insufficient sample for MS/MSD.

MC50379-2: Confirmed ND by re-extraction and reanalysis.

MC50379-2 for Perfluorododecanoic acid: Associated BS recovery outside control limits.

MC50379-2 for d5-NEtFOSAA: Outside control limits.

MC50379-2 for Perfluorotridecanoic acid: Associated BS recovery outside control limits.

MC50379-2 for Perfluorotetradecanoic acid: Associated BS recovery outside control limits.

MC50379-4 for Perfluorotridecanoic acid: Associated BS recovery outside control limits.

MC50379-4: Confirmed by re-extraction and reanalysis.

MC50379-4 for Perfluorododecanoic acid: Associated BS recovery outside control limits.

MC50379-4 for d5-NEtFOSAA: Outside control limits.

MC50379-4 for 13C2-PFDA: Outside control limits.

MC50379-4 for Perfluorotetradecanoic acid: Associated BS recovery outside control limits.

Matrix: DW **Batch ID:** OP65281

MC50379-2: Confirmation run for surrogate recoveries.

MC50379-4: Confirmation run for surrogate recoveries.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date June 6, 2017

Kim Benham, Client Services (signature on file)

Tuesday, June 06, 2017

Page 1 of 1

Summary of Hits

Job Number: MC50379
Account: ATC Group Services LLC.
Project: White Oak, Westfield, MA
Collected: 05/10/17



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
--------------------------	------------------	-----------------	----	-----	-------	--------

MC50379-1 TRIP BLANK

No hits reported in this sample.

MC50379-2 WHITE OAK FIELD BLANK

No hits reported in this sample.

MC50379-3 WHITE OAK-1

No hits reported in this sample.

MC50379-4 WHITE OAK-1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK		Date Sampled: 05/10/17
Lab Sample ID: MC50379-1		Date Received: 05/11/17
Matrix: DW - Drinking Water TB	Percent Solids: n/a	
Method: EPA 537 EPA 537		
Project: White Oak, Westfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1660.D	1	05/26/17 22:52	AFL	05/19/17 09:00	F:OP65104	F:S2Q45
Run #2							

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

4.1
4

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	113%		70-130%
	13C2-PFDA	83%		70-130%
	d5-EtFOSAA	80%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

4.2
4

Client Sample ID:	WHITE OAK FIELD BLANK	Date Sampled:	05/10/17
Lab Sample ID:	MC50379-2	Date Received:	05/11/17
Matrix:	DW - Drinking Water FB	Percent Solids:	n/a
Method:	EPA 537 EPA 537		
Project:	White Oak, Westfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1782.D	1	05/31/17 19:22	AFL	05/23/17 11:00	F:OP65145	F:S2Q48
Run #2 ^b	2Q1927.D	1	06/05/17 21:03	AFL	06/02/17 09:30	F:OP65281	F:S2Q51

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid ^c	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid ^c	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid ^c	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	80%	101%	70-130%
	13C2-PFDA	71%	80%	70-130%
	d5-EtFOSAA	61% ^d	90%	70-130%

- (a) Confirmed ND by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.
- (b) Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.
- (c) Associated BS recovery outside control limits.
- (d) Outside control limits.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

4.3
4

Client Sample ID: WHITE OAK-1	Date Sampled: 05/10/17
Lab Sample ID: MC50379-3	Date Received: 05/11/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: White Oak, Westfield, MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1631.D	1	05/26/17 11:57	AFL	05/19/17 09:00	F:OP65104	F:S2Q45
Run #2							

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	105%		70-130%
	13C2-PFDA	76%		70-130%
	d5-EtFOSAA	81%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WHITE OAK-1	Date Sampled:	05/10/17
Lab Sample ID:	MC50379-4	Date Received:	05/11/17
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 537 EPA 537		
Project:	White Oak, Westfield, MA		

Run	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1641.D	1	05/26/17 15:58	AFL	05/23/17 11:00	F:OP65145	F:S2Q45
Run #2 ^b	2Q1928.D	1	06/05/17 21:25	AFL	06/02/17 09:30	F:OP65281	F:S2Q51

Run	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid ^c	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid ^c	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid ^c	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	84%	97%	70-130%
	13C2-PFDA	69% ^d	86%	70-130%
	d5-EtFOSAA	63% ^d	93%	70-130%

- (a) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.
- (b) Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.
- (c) Associated BS recovery outside control limits.
- (d) Outside control limits.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Misc. Forms

5**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-461-8200 FAX: 508-491-7763
www.accutest.com

PREM PAGE 1 OF 1

FED-EX Tracking #
SGS Accutest Order #
SGS Accutest Job # MC50379

Form containing client reporting information, project information, collection data table, data delivery information, and sample custody tracking details.

5.1 5



SGS Accutest NE Sample Receipt Summary

Job Number: MC50379

Client: ATC

Project: WHITE OAK

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1 (3.8 / 3.3); #2 (4.1 / 3.6); #3: (4.1/3.6);

Cooler Security

	<u>Y</u> or <u>N</u>		<u>Y</u> or <u>N</u>
1. Custody Seals Present:	<input type="checkbox"/> <input checked="" type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input type="checkbox"/> <input checked="" type="checkbox"/>	4. Smp'l Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

Cooler Temperature

	<u>Y</u> or <u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Thermometer ID:	IRGUN1; IRGUN1;
3. Cooler media:	Ice (Bag)
4. No. Coolers:	2

Quality Control Preservation

	<u>Y</u> or <u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Sample Integrity - Documentation

	<u>Y</u> or <u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/> <input type="checkbox"/>

Sample Integrity - Condition

	<u>Y</u> or <u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/> <input type="checkbox"/>
3. Condition of sample:	Intact

Sample Integrity - Instructions

	<u>Y</u> or <u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/> <input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/> <input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments NOTE: 537 volume received

-1: (1) 120ml N/P

-2, -3, -4: (2) 250ml N/P

5.1 5



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS Accutest- Marlborough	Project #:	MC50379
Project Location:	White Oak, Westfield, MA	MADEP RTN	None
This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s) MC50379-1,MC50379-2,MC50379-3,MC50379-4			
Matrices:	Groundwater/Surface Water ()	Soil/Sediment ()	Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status"

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:		Position:	Laboratory Director
Printed Name:	H. (Brad) Madadian	Date:	07-Jun-17

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5



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50379

White Oak, Westfield, MA
 Project No: 183EM00170

5.3
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50379-1 Collected: 10-MAY-17 16:14 By: JB Received: 11-MAY-17 By: TF TRIP BLANK						
MC50379-1	EPA 537	26-MAY-17 22:52	AFL	19-MAY-17	AFL	LC537LIST
MC50379-2 Collected: 10-MAY-17 07:30 By: JB Received: 11-MAY-17 By: TF WHITE OAK FIELD BLANK						
MC50379-2	EPA 537	31-MAY-17 19:22	AFL	23-MAY-17	AFL	LC537LIST
MC50379-2	EPA 537	05-JUN-17 21:03	AFL	02-JUN-17	AFL	LC537LIST
MC50379-3 Collected: 10-MAY-17 07:40 By: JB Received: 11-MAY-17 By: TF WHITE OAK-1						
MC50379-3	EPA 537	26-MAY-17 11:57	AFL	19-MAY-17	AFL	LC537LIST
MC50379-4 Collected: 10-MAY-17 07:41 By: JB Received: 11-MAY-17 By: TF WHITE OAK-1						
MC50379-4	EPA 537	26-MAY-17 15:58	AFL	23-MAY-17	AFL	LC537LIST
MC50379-4	EPA 537	05-JUN-17 21:25	AFL	02-JUN-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50379
Account: ATC Group Services LLC.
Project: White Oak, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50379

Misc. Forms

**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50379 CLIENT: ALWE PROJECT: White Oak, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17 10:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: _____
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 72737516 2286

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR +0.4
 OBSERVED TEMPS: 2.2
 CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

6.1
6

TECHNICIAN SIGNATURE/DATE Je 05-12-17 REVIEWER SIGNATURE/DATE [Signature] 05/12/17

NF 02/16

receipt confirmation 020116.xls

MC50379: Chain of Custody

Page 2 of 3



ORIGIN TO: BRFA (SGB) 481-6200
SAMPLE MANAGEMENT
SGS ACCUTEST LABORATORIES
D. ACCUTEST CENTER #1, BUILDING 1
285 TECH CENTER #1, BUILDING 1
HALLSBOUGH, PA 01782
UNITED STATES US

REC-218/1058

BILL RECEIPT

TO: SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND RD
SUITE C-15
ORLANDO FL 328115803

(407) 425-6700
REF: ATC



FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

7273 7516 2286

EA ORLA

32811
FL-US MCO



MC50379: Chain of Custody
Page 3 of 3

SGS

21 of 34
ACCUTEST
MC50379

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50379

ATCMAS: White Oak, Westfield, MA
 Project No: 183EM00170

6.2
6

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50379-1 Collected: 10-MAY-17 16:14 By: JB Received: 11-MAY-17 By: JC TRIP BLANK						
MC50379-1	EPA 537	26-MAY-17 22:52	NAF	19-MAY-17	MB	LC537LIST
MC50379-2 Collected: 10-MAY-17 07:30 By: JB Received: 11-MAY-17 By: JC WHITE OAK FIELD BLANK						
MC50379-2	EPA 537	31-MAY-17 19:22	NAF	23-MAY-17	MB	LC537LIST
MC50379-2	EPA 537	05-JUN-17 21:03	NAF	02-JUN-17	MB	LC537LIST
MC50379-3 Collected: 10-MAY-17 07:40 By: JB Received: 11-MAY-17 By: JC WHITE OAK-1						
MC50379-3	EPA 537	26-MAY-17 11:57	NAF	19-MAY-17	MB	LC537LIST
MC50379-4 Collected: 10-MAY-17 07:41 By: JB Received: 11-MAY-17 By: JC WHITE OAK-1						
MC50379-4	EPA 537	26-MAY-17 15:58	NAF	23-MAY-17	MB	LC537LIST
MC50379-4	EPA 537	05-JUN-17 21:25	NAF	02-JUN-17	MB	LC537LIST

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50379-1, MC50379-3

7.1.1
7

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EtFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries	Limits	
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EtFOSAA	84%	70-130%

Method Blank Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65145-MB	2Q1639.D	1	05/26/17	NAF	05/23/17	OP65145	S2Q45

The QC reported here applies to the following samples:

Method: EPA 537

MC50379-2, MC50379-4

7.1.2
7

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0077	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0077	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.00390	0.0077	ug/l	J
2355-31-9	MeFOSAA	ND	0.019	ug/l	
2991-50-6	EtFOSAA	ND	0.019	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	133%* a	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	107%	70-130%

(a) Outside control limits. Sample was ND.

Method Blank Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65145-MB	2Q1777.D	1	05/31/17	NAF	05/23/17	OP65145	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50379-2, MC50379-4

7.1.3
7

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0077	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0077	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0077	ug/l	
2355-31-9	MeFOSAA	ND	0.019	ug/l	
2991-50-6	EtFOSAA	ND	0.019	ug/l	

CAS No.	Surrogate Recoveries	Limits	
	13C2-PFHxA	122%	70-130%
	13C2-PFDA	132%* a	70-130%
	d5-EtFOSAA	115%	70-130%

(a) Outside control limits. Sample was ND.

Blank Spike Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	2Q1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50379-1, MC50379-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EtFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1
7

Blank Spike Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65145-BS ^a	2Q1638.D	1	05/26/17	NAF	05/23/17	OP65145	S2Q45

The QC reported here applies to the following samples:

Method: EPA 537

MC50379-2, MC50379-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.0769	0.0902	117	70-130
375-85-9	Perfluoroheptanoic acid	0.0769	0.0821	107	70-130
335-67-1	Perfluorooctanoic acid	0.0769	0.0770	100	70-130
375-95-1	Perfluorononanoic acid	0.0769	0.0851	111	70-130
335-76-2	Perfluorodecanoic acid	0.0769	0.0759	99	70-130
2058-94-8	Perfluoroundecanoic acid	0.0769	0.0708	92	70-130
307-55-1	Perfluorododecanoic acid	0.0769	0.0460	60*	70-130
72629-94-8	Perfluorotridecanoic acid	0.0769	0.0406	53*	70-130
376-06-7	Perfluorotetradecanoic acid	0.0769	0.0446	58*	70-130
375-73-5	Perfluorobutanesulfonic acid	0.0769	0.0828	108	70-130
355-46-4	Perfluorohexanesulfonic acid	0.0769	0.0847	110	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.0769	0.0757	98	70-130
2355-31-9	MeFOSAA	0.0769	0.0813	106	70-130
2991-50-6	EtFOSAA	0.0769	0.0726	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	121%	70-130%
	13C2-PFDA	100%	70-130%
	d5-EtFOSAA	93%	70-130%

(a) Insufficient sample for MS/MSD.

* = Outside of Control Limits.

7.2.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
ZZZZZZ	35992	4.37	93034 ^e	6.90	54464	6.88	30071 ^e	7.52	33474	7.51	120712 ^e	13.08
ZZZZZZ	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
ZZZZZZ	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
ZZZZZZ	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Outside control limits.

7.3.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Check Std:	S2Q45-CC44	Injection Date:	05/26/17
Lab File ID:	2Q1622.D	Injection Time:	08:25
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	43502	4.42	101124	6.94	54012	6.92	39139	7.57	33784	7.53	113531	13.24
Upper Limit ^c	71162	5.42	191871	7.94	103576	7.92	60508	8.57	58898	8.53	242876	14.24
Lower Limit ^d	35581	3.42	95936	5.94	51788	5.92	30254	6.57	29449	6.53	121438	12.24

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
MC50379-3	49362	4.41	118499	6.92	64033	6.90	42183	7.55	40708	7.53	132367	13.12
ZZZZZZ	50481	4.40	123732	6.92	65441	6.90	44216	7.55	44527	7.53	143223	13.11

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Check Std:	S2Q45-CC44	Injection Date:	05/26/17
Lab File ID:	2Q1633.D	Injection Time:	12:44
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	50909	4.41	131278	6.92	64381	6.90	44933	7.54	43657	7.53	144676	12.99
Upper Limit ^c	71162	5.41	191871	7.92	103576	7.90	60508	8.54	58898	8.53	242876	13.99
Lower Limit ^d	35581	3.41	95936	5.92	51788	5.90	30254	6.54	29449	6.53	121438	11.99

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	46961	4.37	118833	6.90	61371	6.88	41790	7.53	41935	7.51	134267	12.99
ZZZZZZ	44857	4.37	119672	6.90	62945	6.88	41168	7.53	42435	7.51	135053	13.01
OP65145-BS ^e	48876	4.37	128027	6.90	63600	6.88	42458	7.52	41113	7.51	146589	13.04
OP65145-MB	46356	4.38	112584	6.90	58079	6.89	40927	7.53	42700	7.51	126608	12.82
MC50379-4 ^f	49801	4.37	121966	6.89	64773	6.87	43338	7.50	41322	7.50	142821	12.90
ZZZZZZ	45367	4.37	109540	6.89	58404	6.87	38366	7.50	38796	7.51	122118	12.90
ZZZZZZ	57664	4.37	139440	6.89	72962	6.87	49064	7.50	46861	7.51	154200	12.85

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Insufficient sample for MS/MSD.
- (f) Confirmed by re-extraction and reanalysis.

7.3.3 7

Semivolatiles Internal Standard Area Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1771.D	Injection Time:	15:13
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	51888	4.33	118415	6.89	84019	6.86	40820	7.53	43151	7.49	183912	13.00
Upper Limit ^c	67239	5.33	160989	7.89	92905	7.86	55710	8.53	56839	8.49	217633	14.00
Lower Limit ^d	33620	3.33	80494	5.89	46453	5.86	27855	6.53	28419	6.49	108816	12.00

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	46898	4.36	118659	6.90	72119	6.88	36914	7.50	41664	7.50	161291	12.90
ZZZZZZ	48753	4.37	110910	6.91	73762	6.89	38082	7.54	40522	7.50	158514	13.05
ZZZZZZ	33578*	4.37	81872	6.91	53823	6.90	27424*	7.55	29262	7.50	116180	13.10
OP65145-MB	40363	4.37	87402	6.92	61910	6.90	31672	7.55	33810	7.50	134358	12.97
MC50379-2 ^e	45128	4.38	101130	6.92	71738	6.90	35895	7.57	39601	7.50	147955	13.14

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDODA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Confirmed ND by re-extraction and reanalysis.

7.3.4
7

Semivolatile Internal Standard Area Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Check Std:	S2Q51-CC51	Injection Date:	06/05/17
Lab File ID:	2Q1922.D	Injection Time:	19:14
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	45018	4.37	91520	6.99	59879	6.96	37409	7.65	30542	7.54	106448	13.28
Check Std ^b	44043	4.37	90275	6.99	61094	6.96	37624	7.65	31443	7.54	106945	13.23
Upper Limit ^c	67527	5.37	137280	7.99	89819	7.96	56114	8.65	45813	8.54	159672	14.23
Lower Limit ^d	22509	3.37	45760	5.99	29940	5.96	18705	6.65	15271	6.54	53224	12.23

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65281-BS ^e	46162	4.42	91647	6.99	60248	6.96	37281	7.64	31411	7.54	105979	13.24
OP65281-MB	53757	4.37	97301	6.96	69339	6.94	41834	7.63	36218	7.54	120364	13.20
ZZZZZZ	45592	4.38	89203	6.97	63616	6.95	36919	7.64	32069	7.54	104631	13.10
MC50379-2 ^f	48991	4.37	95309	6.96	67639	6.94	38697	7.63	34033	7.54	110606	13.15
MC50379-4 ^f	46904	4.37	93708	6.96	66748	6.94	38697	7.63	33010	7.54	110860	13.09
ZZZZZZ	45488	4.40	87432	6.99	62790	6.96	36754	7.65	31868	7.54	103246	13.19
ZZZZZZ	48341	4.41	94674	6.97	66836	6.95	39000	7.64	34005	7.54	110894	13.24

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q51-ICC51 2Q1909.D 06/05/17 13:58. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
- (e) Insufficient sample for MS/MSD.
- (f) Confirmation run for surrogate recoveries.

7.3.5
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50379
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: White Oak, Westfield, MA

Method: EPA 537	Matrix: DW
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50379-1	2Q1660.D	113	83	80
MC50379-2	2Q1782.D	80	71	61* a
MC50379-2	2Q1927.D	101	80	90
MC50379-3	2Q1631.D	105	76	81
MC50379-4	2Q1928.D	97	86	93
MC50379-4	2Q1641.D	84	69* a	63* a
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84
OP65145-BS	2Q1638.D	121	100	93
OP65145-MB	2Q1639.D	133* b	101	107
OP65145-MB	2Q1777.D	122	132* b	115

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

- (a) Outside control limits.
- (b) Outside control limits. Sample was ND.

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

June 13, 2017

Independent Roofing Co., Inc.
c/o Peter Ruzsala, Owner
P.O. Box 1446
Westfield, MA 01085-1446

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Ruzsala:

The Department of Environmental Protection collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 15 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
294 Union Street
Westfield, RTN 1-20093
June 13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

cc w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 294 Union Street
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Independent Roofing Co., Inc.
2. Street Address: 294 Union Street
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 294 Union Street
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

294 Union, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50378

Sampling Date: 05/10/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 24



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (A1171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC.

Job No: MC50378

294 Union, Westfield, MA
Project No: 183EM00170

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC50378-1	05/10/17	12:15 JB	05/11/17	DW	Drinking Water FB	294 UNION FIELD BLANK
MC50378-2	05/10/17	12:25 JB	05/11/17	DW	Drinking Water	294 UNION-1
MC50378-3	05/10/17	12:26 JB	05/11/17	DW	Drinking Water	294 UNION-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50378

Site: 294 Union, Westfield, MA

Report Date 5/31/2017 6:29:04 PM

1 Sample was collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.6 Deg. C and intact. These Samples received a job number of MC50378. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65104

- MC50378-2: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50378).

Wednesday, May 31, 2017

Page 1 of 1

SGS

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ACCUTEST
MC50378

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50378

Site: ATCMAS: 294 Union, Westfield, MA

Report Date: 5/30/2017 5:57:22 PM

1 Sample(s) were collected on 05/10/2017 and were received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of MC50378. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW **Batch ID:** OP65104

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date May 30, 2017

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: MC50378
Account: ATC Group Services LLC.
Project: 294 Union, Westfield, MA
Collected: 05/10/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC50378-2 294 UNION-1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 294 UNION-1	Date Sampled: 05/10/17
Lab Sample ID: MC50378-2	Date Received: 05/11/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 294 Union, Westfield, MA	

4.1
4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1590.D	1	05/25/17 17:40	AFL	05/19/17 09:00	F:OP65104	F:S2Q44
Run #2							

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

Per fluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	100%		70-130%
	13C2-PFDA	83%		70-130%
	d5-EtFOSAA	76%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

GT

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01782
TEL: 508-481-6280 FAX: 508-481-7753
www.accutest.com

PREM PAGE 1 OF 1

FED-EX Tracking #
Boite Order Contact #
SGS Account Queue #
SGS Account Job # MC50378

Client Reporting Information, Project Information, Requested Analysis, Matrix Codes, Collection table with columns for Field ID, Date, Time, Sampled by, Matrix, # of bottles, and various test codes.

Data Deliverable Information, Comments/Special Instructions. Includes turnaround time options and special instructions like 'Hold Field Blank + Sample-2'.

Chain of Custody table with columns for Relinquished By, Date Time, Received By, Date Time, and Custody Seal #.

5.1 5

SGS Accutest NE Sample Receipt Summary

Job Number: MC50378

Client: ATC

Project: 294 UNION

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #s:

Cooler Temps (Initial/Adjusted): #1 (3.9 / 3.4); #2 (4.1 / 3.6);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | ; IRGUN1; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 2 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments NOTE: 537 volume received
-1, -2, -3: (2) 120ml N/P poly

5.1



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM
July 1, 2010
Final

Exhibit VII A
Revision No. 1

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

5.2
5

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough Project #: MC50378
Project Location: 294 Union, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50378-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status"

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [Signature] Position: Laboratory Director
Printed Name: H. (Brad) Madadian Date: 31-May-17



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50378

294 Union, Westfield, MA
Project No: 183EM00170

5.3
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50378-2 Collected: 10-MAY-17 12:25 By: JB Received: 11-MAY-17 By: TF 294 UNION-1						
MC50378-2	EPA 537	25-MAY-17 17:40	AFL	19-MAY-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50378
Account: ATC Group Services LLC.
Project: 294 Union, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50378

Misc. Forms

**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



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CHAIN OF CUSTODY

PREM

50 D'Angelo Drive, 495 Technology Center West, Dldg One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7733
www.sgs.com

FED-EX Tracking # Date Order Contact #
SGS Account Order # SGS Account Job MC50378

Form containing Client/Reporting Information, Project Information, Requested Analysis, Matrix Codes, Collection table, Turnaround Time, Data Deliverable Information, Ship to ALSE, and Sample Custody logs.

6.1 6

MC50378: Chain of Custody
Page 1 of 3
SGS Accutest Southeast

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50378 CLIENT: ALNE PROJECT: 294 Union, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17; 10:50 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 7773 7516 2286

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____
 TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR +0.4
- OBSERVED TEMPS: 2.2
- CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE [Signature] 05-12-17 REVIEWER SIGNATURE/DATE [Signature] 05/12/17

NF 02/16

receipt confirmation 020116.xls

6.1
6

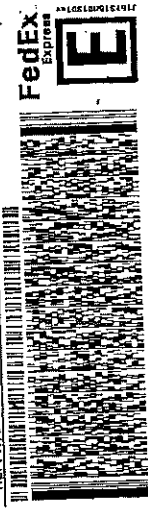


SHIP DATE: 11MAY17
ACTWT: 46.0 LB. MAX
CRG: 095801/CRFES15
BILL RECIPIENT

DALSH ID: BBEA (509) 491-8200
SGS ACCUTEST LABORATORIES
50 D'ANGELO DR. BUILDING 1
4800 BUCKINGHAM FR 01762
UNITED STATES US

TO SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND RD
SUITE C-15
ORLANDO FL 328115803

(407) 493-6700
REF: ATC



FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

TRK# 7273 7516 2286

EA ORLA

32811
FL-US MCO



MC50378: Chain of Custody
Page 3 of 3



Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50378

ATCMAS: 294 Union, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50378-2 Collected: 10-MAY-17 12:25 By: JB Received: 11-MAY-17 By: JC 294 UNION-1						
MC50378-2	EPA 537	25-MAY-17 17:40	NAF	19-MAY-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50378
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 294 Union, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50378-2

7.1.1
7

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EtFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EtFOSAA	84%	70-130%

Blank Spike Summary

Job Number: MC50378
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 294 Union, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	2Q1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50378-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EtFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50378
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 294 Union, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
ZZZZZZ	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
ZZZZZZ	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
MC50378-2	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1
7

Semivolatle Surrogate Recovery Summary

Job Number: MC50378
Account: ALNE SGS Accutest New England
Project: ATCMAS: 294 Union, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50378-2	2Q1590.D	100	83	76
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

7.4.1

7

**MassDEP
Well Completion Report**

6/1/2017 11:29:50 AM

WELL LOCATION		
GPS North: Address: 555 Holyoke Road Subdivision Name: City/Town: Westfield	GPS West:	Assessors Map: Assessors Lot #: Permit number: Date Issued: Board of Health permit obtained: NR

Work Performed	Proposed Use	Drilling Method Overburden	Drilling Method Bedrock
New Well	Domestic	Mud Rotary	Air Hammer

ADDITIONAL WELL INFORMATION	PERMANENT PUMP (IF AVAILABLE)
Developed : Disinfected : Total Well Depth : 405 Fracture Enhancement : Well Seal Type : Depth to Bedrock : 55	Pump description : Type : Nominal Pump Capacity : Intake Depth : Horsepower : Comments : Well is located 300' South of Holyoke Road. Protective well seal="drive shoe." Casing length into bedrock 4'.

CASING				
From (ft)	To (ft)	Type	Thickness	Diameter
0	61		17#	6

SCREEN				
From (ft)	To (ft)	Type	Slot Size	Diameter

WELL SEAL / FILTER PACK / ABANDONMENT MATERIAL			
From (ft)	To (ft)	Material Description	Purpose

STATIC WATER LEVEL (ALL WELLS)	
Date Measured	Depth Below Ground Surface (ft)
06/08/1994	0

WELL TEST DATA (ALL SECTIONS MANDATORY FOR PRODUCTION WELLS)						
Date	Method	Yield (GPM)	Time Pumped (hrs & min)	Pumping Level (Ft. BGS)	Time To Recover (Hrs & Min)	Recovery (Ft. BGS)
06/08/1994	Air Lift	2.50	1:30	405	1:00	100

OVER BURDEN								
From (ft)	To (ft)	Lithology	Color	Comment	Water Zone	Loss/Add of fluid	Drill Stem Drop	Drill Rate
0	1			Top Soil	No			
1	21	Sand And Gravel			No			
21	41	Sand And Gravel			No			
41	55	Sand And Gravel			No			

BEDROCK										
From (ft)	To (ft)	Lithology	Comment	Water Zone	Drill Stem Drop	Extra Large	Drill Rate	Rust Stain	Loss/Add of fluid	# of Fract per ft
55	155		Rock	No						
155	215		Rock	No						
215	220		Red Rock	Yes						
220	320		Rock	No						

MassDEP
Well Completion Report

6/1/2017 11:29:50 AM

320	395	Rock	No
395	400	Red Rock	Yes
400	405	Rock	No



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

June 13, 2017

Matthew & Renee Wroth
20 Hillcrest Circle
Westfield, MA 01085

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Mr. & Mrs. Wroth:

The Department of Environmental Protection collected a drinking water sample from your private well on May 19, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 8 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
20 Hillcrest Circle
Westfield, RTN 1-20093
June 13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 20 Hillcrest Circle

City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Matthew & Renee Wroth

2. Street Address: 20 Hillcrest Circle

City/Town: Westfield Zip Code: 01086

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 20 Hillcrest Circle

City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |

(specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection

Street Address: 436 Dwight Street

City/Town: Springfield Zip Code: 01103

Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS

ACCUTEST New England

06/07/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

20 Hillcrest Circle, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50447

Sampling Date: 05/19/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 25



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Marty Vitanza 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AII71119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

New England • 50 D'Angelo Drive • Building 1 • Marlborough, MA 01752 • tel: 508-481-6200 • fax: 508-481-7753 • <http://www.accutest.com>

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: <http://www.sgs.com/en/terms-and-conditions>

ACCUTEST
MC50447

1 of 25

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Sample Summary

ATC Group Services LLC.

Job No: MC50447

20 Hillcrest Circle, Westfield, MA
Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
MC50447-1	05/19/17	14:37 EO	05/19/17	DW Drinking Water FB	20 HILLCREST CIRCLE-FIELD BLANK
MC50447-2	05/19/17	14:54 EO	05/19/17	DW Drinking Water	20 HILLCREST CIRCLE-1
MC50447-3	05/19/17	14:55 EO	05/19/17	DW Drinking Water	20 HILLCREST CIRCLE-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50447

Site: 20 Hillcrest Circle, Westfield, MA

Report Date 6/7/2017 11:17:28 AM

1 Sample was collected on 05/19/2017 and were received at SGS Accutest New England on 05/19/2017 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC50447. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65200

- MC50447-2: Analysis performed at SGS Accutest, Orlando FL.

MC50447-2, Batch OP65281: Confirmation run for surrogate. Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50447).

Wednesday, June 07, 2017

Page 1 of 1

SGS

4 of 25
ACCUTEST
MC50447

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50447

Site: ATCMAS: 20 Hillcrest Circle, Westfield, MA

Report Date: 6/6/2017 7:11:32 PM

1 Sample(s) were collected on 05/19/2017 and were received at SGS Accutest Southeast (SASE) on 05/20/2017 properly preserved, at 1.1 Deg. C and intact. These Samples received an SASE job number of MC50447. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW **Batch ID:** OP65200

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) MC50447-2 have surrogates outside control limits.

MC50447-2: Confirmed by re-extraction and reanalysis.

MC50447-2 for d5-NEFOSAA: Outside control limits.

Matrix: DW **Batch ID:** OP65281

MC50447-2: Confirmation run for surrogate recoveries.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date June 6, 2017

Kim Benham, Client Services (signature on file)

Tuesday, June 06, 2017

Page 1 of 1

Summary of Hits

Job Number: MC50447
Account: ATC Group Services LLC.
Project: 20 Hillcrest Circle, Westfield, MA
Collected: 05/19/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC50447-2 20 HILLCREST CIRCLE-1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	20 HILLCREST CIRCLE-1	Date Sampled:	05/19/17
Lab Sample ID:	MC50447-2	Date Received:	05/19/17
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 537 EPA 537		
Project:	20 Hillcrest Circle, Westfield, MA		

4.1
4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1796.D	1	06/01/17 00:27	AFL	05/26/17 10:00	F:OP65200	F:S2Q48
Run #2 ^b	2Q1938.D	1	06/06/17 01:03	AFL	06/02/17 09:30	F:OP65281	F:S2Q51

Run #	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	ND	0.020	ug/l	
2991-50-6	EtFOSAA	ND	0.020	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	93%	98%	70-130%
	13C2-PFDA	89%	90%	70-130%
	d5-EtFOSAA	68% ^c	85%	70-130%

- (a) Confirmed by re-extraction and reanalysis. Analysis performed at SGS Accutest, Orlando FL.
- (b) Confirmation run for surrogate recoveries. Analysis performed at SGS Accutest, Orlando FL.
- (c) Outside control limits.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
60 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-4200 FAX: 508-481-7753
www.accutest.com

PREM PAGE 1 OF 1

PEL-EX Tracking #
Botle Order Control #
SGS Accutest Quote #
SGS Accutest Job # MC50447

Form containing Client/Reporting Information, Project Information, Collection table, Date Deliverable Information, and Chain of Custody table.

5.1 5

SGS Accutest NE Sample Receipt Summary

Job Number: MC50447

Client: ATC

Project: 20 HILLCREST CIRCLE

Date / Time Received: 5/19/2017 8:00:00 PM

Delivery Method: SGS COURIER

Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1 (0.5 / 0); #2 (1.1 / 0.6);

Cooler Security

Y or N

1. Custody Seals Present:
2. Custody Seals Intact:

Y or N

3. COC Present:
4. Smpl Dates/Time OK:

Cooler Temperature

Y or N

1. Temp criteria achieved:
2. Thermometer ID: IRGUNI;
3. Cooler media: Ice (Bag)
4. No. Coolers: 1

Quality Control Preservation

Y or N

N/A

1. Trip Blank present / cooler:
2. Trip Blank listed on COC:
3. Samples preserved properly:
4. VOCs headspace free:

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles:
2. Container labeling complete:
3. Sample container label / COC agree:

Sample Integrity - Condition

Y or N

1. Sample recvd within HT:
2. All containers accounted for:
3. Condition of sample: Intact

Sample Integrity - Instructions

Y or N

N/A

1. Analysis requested is clear:
2. Bottles received for unspecified tests:
3. Sufficient volume recvd for analysis:
4. Compositing instructions clear:
5. Filtering instructions clear:

Comments

5.1
5

MC50447: Chain of Custody

Page 2 of 2





Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough Project #: MC50447

Project Location: 20 Hillcrest Circle, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50447-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM VA	9014 Total Cyanide/PAC () CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [Signature] Position: Laboratory Director

Printed Name: H. (Brad) Madadian Date: 07-Jun-17

5.2
5



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50447

20 Hillcrest Circle, Westfield, MA
Project No: 183EM00170



Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50447-2 Collected: 19-MAY-17 14:54 By: EO Received: 19-MAY-17 By: TF						
20 HILLCREST CIRCLE-1						

MC50447-2 EPA 537	01-JUN-17 00:27	AFL	26-MAY-17 AFL	LC537LIST
MC50447-2 EPA 537	06-JUN-17 01:03	AFL	02-JUN-17 AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50447
Account: ATC Group Services LLC.
Project: 20 Hillcrest Circle, Westfield, MA
Collected: 05/19/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
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No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50447

Misc. Forms

6

Custody Documents and Other Forms

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

SGS

ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7763
www.accutest.com

MC50447
PAGE 1 OF 1

PREM

FED-EX Tracking #	SGS Account Order #	SGS Account Job #
		MC50447
Requested Analysis		Match Codes
EPA Method 537 Modified		DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SD - Sediment OI - Oil LIQ - Other Liquid AS - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinsate Blank TB - Trip Blank
EPA Method 537 Modified Filter: 1.2 µm, Membrane-JDC 5/19/17 TR		5/19/17 0512017

Client/Reporting Information		Project Information	
Company Name: ATC Group Services		Project Name: 20 Hillcrest Circle, Westfield	
Street Address: 73 William Franks Dr.		Street: 20 Hillcrest Circle	
City: West Springfield MA 01089		City: Westfield	
Project Contact: Rob Smith c atccassociates.com		Project: 183EH00170	
Phone #: (413) 781-0070 ext 101		Client PO#:	
Sample(s) Name(s): Elizabeth O'Connor		Project Manager: Rob Smith	

ACR Account Sample #	Field ID / Point of Collection	METHOD/Val #	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved bottles															
								HCl	NO3	NO2	AS04	AS05	AS06	AS07	AS08	AS09	AS10	AS11	AS12	AS13	AS14		
-1	20 Hillcrest Circle - field blank		5/19/17	14:37	ED DW		2																X
-2	20 Hillcrest Circle - 1		5/19/17	14:54	ED DW		6	3	1	2													X
-3	20 Hillcrest Circle - 2		5/19/17	14:55	ED DW		2			2													X

<input type="checkbox"/> Turnaround Time (Business days) <input type="checkbox"/> Std. 10 Business Days <input checked="" type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A date available VIA LabLink</small>	Approved By (SGS Account PM): J Date: _____ _____ _____	<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 2+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary</small>	<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other: _____
--	---	---	--

Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler: <i>EO</i> Date/Time: 5/19/17 15:30	Received By: <i>Sample fridge ED</i> Date/Time: 5-19-17 18:00	Relinquished by: <i>J. Smith</i> Date/Time: 5-19-17	Received By: <i>FCO</i> Date/Time: 5-19-17
Relinquished by: <i>Be</i> Date/Time: 05/19/17 00:30	Received By: <i>Be</i>	Relinquished by: <i>FCO</i>	Received By: <i>FCO</i>

Comments / Special Instructions:

Hold = 20 Hillcrest Circle - field blank
 Hold = 20 Hillcrest Circle - 2
 Hold = 20 Hillcrest Circle - 1 for
 Total As, Fe, Hardness, TDC

6.1
6

SGS Accutest Sample Receipt Summary

Job Number: MC50447

Client: ATC

Project: 20 HILLCREST CIRCLE

Date / Time Received: 5/20/2017 10:30:00 AM

Delivery Method: FX

Airbill #'s: 727375162573

Therm ID: <u>IR 1;</u>	Therm CF: <u>0.4;</u>	# of Coolers: <u>1</u>
Cooler Temps (Raw Measured) °C: Cooler : (<u>0.7</u>); Cooler 1: (<u>0.1</u>);		
Cooler Temps (Corrected) °C: Cooler : (<u>1.1</u>); Cooler 1: (<u>0.5</u>);		

<u>Cooler Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Temp criteria achieved	<input checked="" type="checkbox"/>		<input type="checkbox"/>
4. Cooler temp verification	<u>IR Gun</u>		
5. Cooler media	<u>Ice (Bag)</u>		

<u>Sample Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Sample labels present on bottles	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume/containers recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Condition of sample	<u>Intact</u>			
5. Sample recvd within HT	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
6. Dates/Times/IDs on COC match Sample Label	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
7. VOCs have headspace	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Voa Soil Kits/Jars received past 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Trip Blank Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<u>W</u>	<u>or</u>	<u>S</u>	<u>N/A</u>
3. Type OfTB Received	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Misc. Information</u>			
Number of Encores: 25-Gram _____	5-Gram _____	Number of 5035 Field Kits: _____	Number of Lab Filtered Metals: _____
Test Strip Lot #s: pH 0-3 _____	230315 _____	pH 10-12 _____	219813A _____
Residual Chlorine Test Strip Lot #: _____		Other: (Specify) _____	

Comments

SM001 Rev. Date 05/24/17 Technician: CARLOSP Date: 5/20/2017 10:30:00 A Reviewer: PDS Date: 6/7/2017

MC50447: Chain of Custody
Page 2 of 2

6.1
6

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50447

ATCMAS: 20 Hillcrest Circle, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50447-2 Collected: 19-MAY-17 14:54 By: EO Received: 19-MAY-17 By: CP 20 HILLCREST CIRCLE-1						
MC50447-2	EPA 537	01-JUN-17 00:27	NAF	26-MAY-17	MB	LC537LIST
MC50447-2	EPA 537	06-JUN-17 01:03	NAF	02-JUN-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50447
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 20 Hillcrest Circle, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-MB	2Q1786.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50447-2

7.1.1
7

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	ND	0.020	ug/l	
2991-50-6	EtFOSAA	ND	0.020	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	102%	70-130%
	13C2-PFDA	107%	70-130%
	d5-EtFOSAA	85%	70-130%

Blank Spike Summary

Job Number: MC50447
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 20 Hillcrest Circle, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-BS	2Q1785.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50447-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.154	0.157	102	70-130
375-85-9	Perfluoroheptanoic acid	0.154	0.176	114	70-130
335-67-1	Perfluorooctanoic acid	0.154	0.176	114	70-130
375-95-1	Perfluorononanoic acid	0.154	0.180	117	70-130
335-76-2	Perfluorodecanoic acid	0.154	0.160	104	70-130
2058-94-8	Perfluoroundecanoic acid	0.154	0.166	108	70-130
307-55-1	Perfluorododecanoic acid	0.154	0.130	84	70-130
72629-94-8	Perfluorotridecanoic acid	0.154	0.116	75	70-130
376-06-7	Perfluorotetradecanoic acid	0.154	0.111	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.154	0.171	111	70-130
355-46-4	Perfluorohexanesulfonic acid	0.154	0.181	118	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.154	0.161	105	70-130
2355-31-9	MeFOSAA	0.154	0.184	120	70-130
2991-50-6	EiFOSAA	0.154	0.169	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	111%	70-130%
	13C2-PFDA	118%	70-130%
	d5-EiFOSAA	98%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatiles Internal Standard Area Summary

Job Number: MC50447
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 20 Hillcrest Circle, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1783.D	Injection Time:	19:44
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1	IS 2	IS 3	IS 4	IS 5	IS 6						
	AREA	RT	AREA	RT	AREA	RT						
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	51592	4.38	121075	6.94	80626	6.91	41993	7.57	43847	7.51	180708	13.07
Upper Limit ^c	67239	5.38	160989	7.94	92905	7.91	55710	8.57	56839	8.51	217633	14.07
Lower Limit ^d	33620	3.38	80494	5.94	46453	5.91	27855	6.57	28419	6.51	108816	12.07

Lab	IS 1	IS 2	IS 3	IS 4	IS 5	IS 6						
Sample ID	AREA	RT	AREA	RT	AREA	RT						
OP65200-BS	51974	4.40	125480	6.94	80378	6.91	41812	7.58	45865	7.51	174916	13.07
OP65200-MB	51025	4.40	112651	6.94	79329	6.91	40513	7.58	44232	7.51	166827	13.04
ZZZZZZ	49707	4.40	115571	6.95	79567	6.93	40176	7.58	44028	7.51	162546	13.20
ZZZZZZ	45000	4.40	112438	6.94	73978	6.93	37997	7.58	41784	7.51	154581	13.22
ZZZZZZ	51556	4.40	119562	6.95	80653	6.93	40934	7.59	44230	7.51	167238	13.17
MC50445-2	49613	4.41	121847	6.95	85331	6.93	41953	7.59	47423	7.53	170676	13.22
OP65200-MS	52146	4.41	126442	6.95	79638	6.93	42098	7.59	45993	7.53	173344	13.12
OP65200-MSD	52428	4.41	127024	6.95	80987	6.93	42360	7.59	46691	7.53	174018	13.08

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDODA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1 7

Semivolatile Internal Standard Area Summary

Job Number: MC50447
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 20 Hillcrest Circle, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1793.D	Injection Time:	23:22
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	53549	4.41	124338	6.95	80885	6.93	43054	7.59	45631	7.53	180941	13.09
Upper Limit ^c	67239	5.41	160989	7.95	92905	7.93	55710	8.59	56839	8.53	217633	14.09
Lower Limit ^d	33620	3.41	80494	5.95	46453	5.93	27855	6.59	28419	6.53	108816	12.09

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	50095	4.41	128610	6.96	86324	6.94	43190	7.60	49265	7.53	176796	13.25
MC50447-2 ^e	50542	4.41	121368	6.96	81919	6.94	40990	7.60	44784	7.53	167982	13.25
ZZZZZZ	51367	4.42	120767	6.96	84395	6.94	41457	7.60	46485	7.53	168609	13.28
ZZZZZZ	50479	4.42	121226	6.96	84095	6.94	41278	7.60	46645	7.53	166819	13.29
ZZZZZZ	51715	4.42	120864	6.96	81455	6.94	41150	7.60	44644	7.53	167392	13.19
ZZZZZZ	50506	4.42	121004	6.96	80467	6.94	41022	7.60	45067	7.53	167742	13.13
S2Q48-ECC47	48769	4.43	117087	6.97	69109	6.95	42623	7.63	42206	7.53	150668	13.19

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Confirmed by re-extraction and reanalysis.

7.3.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC50447
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 20 Hillcrest Circle, Westfield, MA

Check Std:	S2Q51-CC51	Injection Date:	06/05/17
Lab File ID:	2Q1931.D	Injection Time:	22:30
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	45018	4.37	91520	6.99	59879	6.96	37409	7.65	30542	7.54	106448	13.28
Check Std ^b	45639	4.40	91716	6.99	61909	6.96	37443	7.65	31540	7.54	107463	13.18
Upper Limit ^c	63025	5.40	128128	7.99	83831	7.96	52373	8.65	42759	8.54	149027	14.18
Lower Limit ^d	31513	3.40	64064	5.99	41915	5.96	26186	6.65	21379	6.54	74514	12.18

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	46804	4.36	97968	6.96	68501	6.94	39246	7.63	35036	7.54	110719	13.12
ZZZZZZ	48481	4.41	98302	6.97	69306	6.95	39286	7.64	34031	7.54	111464	13.20
ZZZZZZ	46764	4.41	95823	6.99	67523	6.96	39335	7.65	34671	7.54	111840	13.24
ZZZZZZ	47157	4.41	95928	6.96	67186	6.94	38193	7.63	34037	7.54	110228	13.23
ZZZZZZ	47078	4.42	95976	6.99	68157	6.96	39807	7.65	34569	7.54	112619	13.24
MC50447-2 ^e	47426	4.41	94837	6.99	66938	6.96	38925	7.64	34298	7.54	111674	13.17
ZZZZZZ	47850	4.46	100902	7.06	71802	7.03	42015	7.74	38144	7.54	113080	13.13
S2Q51-ECC51	47635	4.45	89867	6.97	58466	6.95	36769	7.63	29880	7.54	108155	13.08

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFD_oDA

- (a) Initial Cal is: S2Q51-ICC51 2Q1909.D 06/05/17 13:58. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.
- (e) Confirmation run for surrogate recoveries.

7.3.3
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50447
Account: ALNE SGS Accutest New England
Project: ATCMAS: 20 Hillcrest Circle, Westfield, MA

Method: EPA 537	Matrix: DW
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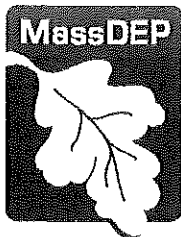
Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50447-2	2Q1796.D	93	89	68* ^a
MC50447-2	2Q1938.D	98	90	85
OP65200-BS	2Q1785.D	111	118	98
OP65200-MB	2Q1786.D	102	107	85

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

(a) Outside control limits.

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

June 13, 2017

Jule Sherman
2 Tina Lane
Westfield, MA 01085

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Ms. Sherman:

The Department of Environmental Protection collected a drinking water sample from your private well on May 19, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 8 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
2 Tina Lane
Westfield, RTN 1-20093
June 13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 2 Tina Lane
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Jule Sherman
2. Street Address: 2 Tina Lane
City/Town: Westfield Zip Code: 01086

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 2 Tina Lane
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.



*e-Hardcopy 2.0
Automated Report*

Technical Report for

ATC Group Services LLC.

2 Tina Lane, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50449

Sampling Date: 05/19/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 25



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

H. (Brad) Madadian
H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AH171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC.

Job No: MC50449

2 Tina Lane, Westfield, MA
 Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50449-1	05/19/17	14:05	EO	05/19/17	DW Drinking Water TB	TRIP BLANK
MC50449-2	05/19/17	13:47	EO	05/19/17	DW Drinking Water FB	2 TINA LANE-FIELD BLANK
MC50449-3	05/19/17	14:04	EO	05/19/17	DW Drinking Water	2 TINA LANE-1
MC50449-4	05/19/17	14:05	EO	05/19/17	DW Drinking Water	2 TINA LANE-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50449

Site: 2 Tina Lane, Westfield, MA

Report Date 6/2/2017 9:38:20 AM

1 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 05/19/2017 and were received at SGS Accutest New England on 05/19/2017 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC50449. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65200

- MC50449-3: Analysis performed at SGS Accutest, Orlando FL.
- MC50449-1: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50449).

Friday, June 02, 2017

Page 1 of 1

SGS

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ACCUTEST
MC50449

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50449

Site: ATCMAS: 2 Tina Lane, Westfield, MA

Report Date 6/1/2017 7:44:24 PM

1 Sample and 1 Trip Blank were collected on 05/19/2017 and were received at SGS Accutest Southeast (SASE) on 05/20/2017 properly preserved, at 1.1 Deg. C and intact. These Samples received an SASE job number of MC50449. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65200

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Lovelie Metzgar, QA Officer (signature on file)

Date: June 1, 2017

Thursday, June 01, 2017

Page 1 of 1



Summary of Hits

Job Number: MC50449
Account: ATC Group Services LLC.
Project: 2 Tina Lane, Westfield, MA
Collected: 05/19/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC50449-1 TRIP BLANK

No hits reported in this sample.

MC50449-3 2 TINA LANE-1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

4.1
4

Client Sample ID:	TRIP BLANK	Date Sampled:	05/19/17
Lab Sample ID:	MC50449-1	Date Received:	05/19/17
Matrix:	DW - Drinking Water TB	Percent Solids:	n/a
Method:	EPA 537 EPA 537		
Project:	2 Tina Lane, Westfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1799.D	1	06/01/17 01:33	AFL	05/26/17 10:00	F:OP65200	F:S2Q48
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0080	ug/l	
2355-31-9	MeFOSAA	ND		0.020	ug/l	
2991-50-6	EtFOSAA	ND		0.020	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	98%		70-130%
	13C2-PFDA	89%		70-130%
	d5-EtFOSAA	71%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: 2 TINA LANE-1	Date Sampled: 05/19/17
Lab Sample ID: MC50449-3	Date Received: 05/19/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 2 Tina Lane, Westfield, MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1800.D	1	06/01/17 01:55	AFL	05/26/17 10:00	F:OP65200	F:S2Q48
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.0077	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.0077	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.0077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0077	ug/l	
2355-31-9	MeFOSAA	ND		0.019	ug/l	
2991-50-6	EtFOSAA	ND		0.019	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	92%		70-130%
	13C2-PFDA	90%		70-130%
	d5-EtFOSAA	71%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

5**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
60 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

PREM PAGE 1 OF 1

FED-EX Tracking #
SGS Order Control #
SGS Accutest Job # MC50449

Form containing Client/Reporting Information, Project Information, Requested Analysis, Matrix Codes, Collection table, Data Deliverable Information, and Sample Custody sections.

5.1 5

SGS Accutest NE Sample Receipt Summary

Job Number: MC50449

Client: ATC

Project: 2 TINA LANE, WESTFIELD

Date / Time Received: 5/19/2017 6:00:00 PM

Delivery Method: SGS COURIER

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1 (0.5 / 0); #2 (1.1 / 0.6);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smp'l Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | ; IRGUN1; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

5.1 5



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough

Project #: MC50449

Project Location: 2 Tina Lane, Westfield, MA

MADEP RTN

None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50449-1, MC50449-3

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status"

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [Signature]

Position: Laboratory Director

Printed Name: H. (Brad) Madadian

Date: 02-Jun-17

5.2
5



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50449

2 Tina Lane, Westfield, MA
Project No: 183EM00170

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5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50449-1 Collected: 19-MAY-17 14:05 By: EO Received: 19-MAY-17 By: TF TRIP BLANK						
MC50449-1	EPA 537	01-JUN-17 01:33	AFL	26-MAY-17	AFL	LC537LIST
MC50449-3 Collected: 19-MAY-17 14:04 By: EO Received: 19-MAY-17 By: TF 2 TINA LANE-1						
MC50449-3	EPA 537	01-JUN-17 01:55	AFL	26-MAY-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50449
Account: ATC Group Services LLC.
Project: 2 Tina Lane, Westfield, MA
Collected: 05/19/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50449



Misc. Forms

**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

MC50449 PAGE 1 OF 1
PREM

Form containing client info (ATC Group Services), project info (2 Tina Lane, Westfield), collection table with 4 samples, and chain of custody signatures.

6.1 6

MC50449: Chain of Custody
Page 1 of 2
SGS Accutest Southeast



SGS Accutest Sample Receipt Summary

Job Number: MC50449

Client: ATC

Project: 2 TINA LN WESTFIELD

Date / Time Received: 5/20/2017 10:30:00 AM

Delivery Method: FX

Airbill #s: 727375162573

Therm ID: IR 1;	Therm CF: 0.4;	# of Coolers: 1
Cooler Temps (Raw Measured) °C: Cooler : (0.7); Cooler 1: (0.1);		
Cooler Temps (Corrected) °C: Cooler : (1.1); Cooler 1: (0.5);		

<u>Cooler Information</u>	Y	or	N	<u>Sample Information</u>	Y	or	N	N/A
1. Custody Seals Present	<input type="checkbox"/>		<input type="checkbox"/>	1. Sample labels present on bottles	<input type="checkbox"/>		<input type="checkbox"/>	
2. Custody Seals Intact	<input type="checkbox"/>		<input type="checkbox"/>	2. Samples preserved properly	<input type="checkbox"/>		<input type="checkbox"/>	
3. COC Present	<input type="checkbox"/>		<input type="checkbox"/>	3. Sufficient volume recvd for analysis:	<input type="checkbox"/>		<input type="checkbox"/>	
4. Analysis requested is clear	<input type="checkbox"/>		<input type="checkbox"/>	4. Correct # of containers used	<input type="checkbox"/>		<input type="checkbox"/>	
5. Smpl Dates/Time OK	<input type="checkbox"/>		<input type="checkbox"/>	5. Condition of sample	<u>Intact</u>			
6. Temp criteria achieved	<input type="checkbox"/>		<input type="checkbox"/>	6. Sample recvd within HT	<input type="checkbox"/>		<input type="checkbox"/>	
7. Cooler temp verification	<u>IR Gun</u>			7. Dates/Times on COC match Sample Label	<input type="checkbox"/>		<input type="checkbox"/>	
8. Cooler media	<u>Ice (Bag)</u>			8. IDs on COC Match Sample Label	<input type="checkbox"/>		<input type="checkbox"/>	
<u>Trip Blank Information</u>				9. VOCs headspace free (No Macro Bubbles)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
1. Trip Blank present / cooler	<input checked="" type="checkbox"/>		<input type="checkbox"/>	10. Bottles received but Analysis not requested	<input type="checkbox"/>		<input type="checkbox"/>	
2. Trip Blank listed on COC	<input checked="" type="checkbox"/>		<input type="checkbox"/>	11. All bottles received for analysis requested	<input type="checkbox"/>		<input type="checkbox"/>	
3. Trip Blank Intact ?	<input checked="" type="checkbox"/>		<input type="checkbox"/>	12. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
				13. Filtering instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
				14. 5035 Field Kits received within 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
				15. Bulk Voa Soil Jars received within 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. Type Of TB Received	<input checked="" type="checkbox"/>		<input type="checkbox"/>	16. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
				17. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Misc. Information</u>			
Number of Encores: 25-Gram _____	5-Gram _____	Number of 5035 Field Kits: _____	Number of Lab Filtered Metals: _____
Test Strip Lot #: pH 0-3 _____	230315 _____	pH 10-12 _____	219813A _____
Residual Chlorine Test Strip Lot #: _____			

Comments

SM001 Rev. Date 05/18/17 Technician: CARLOSP Date: 5/20/2017 10:30:00 A Reviewer: PDS Date: 5/20/2017

6.1
6

MC50449: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50449

ATCMAS: 2 Tina Lane, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50449-1 Collected: 19-MAY-17 14:05 By: EO Received: 19-MAY-17 By: CP TRIP BLANK						
MC50449-1	EPA 537	01-JUN-17 01:33	NAF	26-MAY-17	MB	LC537LIST
MC50449-3 Collected: 19-MAY-17 14:04 By: EO Received: 19-MAY-17 By: CP 2 TINA LANE-1						
MC50449-3	EPA 537	01-JUN-17 01:55	NAF	26-MAY-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50449
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 2 Tina Lane, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-MB	2Q1786.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50449-1, MC50449-3

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	ND	0.020	ug/l	
2991-50-6	EtFOSAA	ND	0.020	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	102%	70-130%
	13C2-PFDA	107%	70-130%
	d5-EtFOSAA	85%	70-130%

7.1.1
7

Blank Spike Summary

Job Number: MC50449
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 2 Tina Lane, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-BS	2Q1785.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50449-1, MC50449-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.154	0.157	102	70-130
375-85-9	Perfluoroheptanoic acid	0.154	0.176	114	70-130
335-67-1	Perfluorooctanoic acid	0.154	0.176	114	70-130
375-95-1	Perfluorononanoic acid	0.154	0.180	117	70-130
335-76-2	Perfluorodecanoic acid	0.154	0.160	104	70-130
2058-94-8	Perfluoroundecanoic acid	0.154	0.166	108	70-130
307-55-1	Perfluorododecanoic acid	0.154	0.130	84	70-130
72629-94-8	Perfluorotridecanoic acid	0.154	0.116	75	70-130
376-06-7	Perfluorotetradecanoic acid	0.154	0.111	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.154	0.171	111	70-130
355-46-4	Perfluorohexanesulfonic acid	0.154	0.181	118	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.154	0.161	105	70-130
2355-31-9	MeFOSAA	0.154	0.184	120	70-130
2991-50-6	EtFOSAA	0.154	0.169	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	111%	70-130%
	13C2-PFDA	118%	70-130%
	d5-EtFOSAA	98%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50449
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 2 Tina Lane, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1783.D	Injection Time:	19:44
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	51592	4.38	121075	6.94	80626	6.91	41993	7.57	43847	7.51	180708	13.07
Upper Limit ^c	67239	5.38	160989	7.94	92905	7.91	55710	8.57	56839	8.51	217633	14.07
Lower Limit ^d	33620	3.38	80494	5.94	46453	5.91	27855	6.57	28419	6.51	108816	12.07

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65200-BS	51974	4.40	125480	6.94	80378	6.91	41812	7.58	45865	7.51	174916	13.07
OP65200-MB	51025	4.40	112651	6.94	79329	6.91	40513	7.58	44232	7.51	166827	13.04
ZZZZZZ	49707	4.40	115571	6.95	79567	6.93	40176	7.58	44028	7.51	162546	13.20
ZZZZZZ	45000	4.40	112438	6.94	73978	6.93	37997	7.58	41784	7.51	154581	13.22
ZZZZZZ	51556	4.40	119562	6.95	80653	6.93	40934	7.59	44230	7.51	167238	13.17
MC50445-2	49613	4.41	121847	6.95	85331	6.93	41953	7.59	47423	7.53	170676	13.22
OP65200-MS	52146	4.41	126442	6.95	79638	6.93	42098	7.59	45993	7.53	173344	13.12
OP65200-MSD	52428	4.41	127024	6.95	80987	6.93	42360	7.59	46691	7.53	174018	13.08

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50449
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 2 Tina Lane, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1793.D	Injection Time:	23:22
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	53549	4.41	124338	6.95	80885	6.93	43054	7.59	45631	7.53	180941	13.09
Upper Limit ^c	67239	5.41	160989	7.95	92905	7.93	55710	8.59	56839	8.53	217633	14.09
Lower Limit ^d	33620	3.41	80494	5.95	46453	5.93	27855	6.59	28419	6.53	108816	12.09

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
ZZZZZZ	50095	4.41	128610	6.96	86324	6.94	43190	7.60	49265	7.53	176796	13.25
ZZZZZZ	50542	4.41	121368	6.96	81919	6.94	40990	7.60	44784	7.53	167982	13.25
ZZZZZZ	51367	4.42	120767	6.96	84395	6.94	41457	7.60	46485	7.53	168609	13.28
ZZZZZZ	50479	4.42	121226	6.96	84095	6.94	41278	7.60	46645	7.53	166819	13.29
MC50449-1	51715	4.42	120864	6.96	81455	6.94	41150	7.60	44644	7.53	167392	13.19
MC50449-3	50506	4.42	121004	6.96	80467	6.94	41022	7.60	45067	7.53	167742	13.13
S2Q48-ECC47	48769	4.43	117087	6.97	69109	6.95	42623	7.63	42206	7.53	150668	13.19

IS 1 = 13C3-PFPeA
 IS 2 = 13C2-6:2FTS
 IS 3 = 13C2-PFOA
 IS 4 = 13C4-PFOS
 IS 5 = d3-MeFOSAA
 IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.2
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50449
Account: ALNE SGS Accutest New England
Project: ATCMAS: 2 Tina Lane, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50449-1	2Q1799.D	98	89	71
MC50449-3	2Q1800.D	92	90	71
OP65200-BS	2Q1785.D	111	118	98
OP65200-MB	2Q1786.D	102	107	85

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Suuberg
Commissioner

June 13, 2017

Dion Label Printing
c/o John Dion – Vice President
P.O. Box 1507
Westfield, MA 01086-1507

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Mr. Dion:

The Department of Environmental Protection collected a drinking water sample from your private well on May 18, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 8 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
539 North Road
Westfield, RTN 1-20093
June 13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 539 North Road
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Dion Label Printing
2. Street Address: 539 North Road
City/Town: Westfield Zip Code: 01086

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 539 North Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Technical Report for**ATC Group Services LLC.**

539 North Road, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50445

Sampling Date: 05/18/17

Report to:ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 23

Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.
H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AH171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

ATC Group Services LLC.

Job No: MC50445

539 North Road, Westfield, MA
Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50445-1	05/18/17	16:00	EO	05/19/17	DW Drinking Water FB	539 NORTH RD-FIELD BLANK
MC50445-2	05/18/17	16:05	EO	05/19/17	DW Drinking Water	539 NORTH RD-1
MC50445-3	05/18/17	16:06	EO	05/19/17	DW Drinking Water	539 NORTH RD-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50445

Site: 539 North Road, Westfield, MA

Report Date 6/2/2017 8:54:28 AM

1 Sample was collected on 05/18/2017 and were received at SGS Accutest New England on 05/19/2017 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC50445. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65200

- MC50445-2: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50445).

Friday, June 02, 2017

Page 1 of 1

SGS

4 of 23
ACCUTEST
MC50445

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50445

Site: ATCMAS: 539 North Road, Westfield, MA

Report Date 6/1/2017 7:42:55 PM

1 Sample was collected on 05/18/2017 and was received at SGS Accutest Southeast (SASE) on 05/20/2017 properly preserved, at 1.1 Deg. C and intact. This Sample received an SASE job number of MC50445. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65200

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: June 1, 2017

Lovelie Metzgar, QA Officer (signature on file)

Thursday, June 01, 2017

Page 1 of 1

Summary of Hits

Job Number: MC50445
Account: ATC Group Services LLC.
Project: 539 North Road, Westfield, MA
Collected: 05/18/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC50445-2 539 NORTH RD-1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 539 NORTH RD-1	Date Sampled: 05/18/17
Lab Sample ID: MC50445-2	Date Received: 05/19/17
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 537 EPA 537	
Project: 539 North Road, Westfield, MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1790.D	1	05/31/17 22:16	AFL	05/26/17 10:00	F:OP65200	F:S2Q48
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0080	ug/l	
2355-31-9	MeFOSAA	ND		0.020	ug/l	
2991-50-6	EtFOSAA	ND		0.020	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	94%		70-130%
	13C2-PFDA	88%		70-130%
	d5-EtFOSAA	76%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

SGS Accutest NE Sample Receipt Summary

Job Number: MC50445

Client: ATC

Project: 539 NORTH RD

Date / Time Received: 5/19/2017 6:00:00 PM

Delivery Method: SGS COURIER

Airbill #s:

Cooler Temps (Initial/Adjusted): #1 (0.5 / 0); #2 (1.1 / 0.6);

Cooler Security

- | | Y or N | | | Y or N | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

- | | Y or N | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | : IRGUN1; | |
| 3. Cooler media: | ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

- | | Y | or N | N/A |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

- | | Y | or N | N |
|--|-------------------------------------|--------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

- | | Y | or N | N |
|----------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

Sample Integrity - Instructions

- | | Y | or N | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

5.1
5

MC50445: Chain of Custody

Page 2 of 2





Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough Project #: MC50445
Project Location: 539 North Road, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50445-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM III A	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status"

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [Signature] Position: Laboratory Director
Printed Name: H. (Brad) Madadian Date: 02-Jun-17

5.2
5

Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50445

539 North Road, Westfield, MA
Project No: 183EM00170

5.3
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50445-2 Collected: 18-MAY-17 16:05 By: EO Received: 19-MAY-17 By: TP 539 NORTH RD-1						
MC50445-2	EPA 537	31-MAY-17 22:16	AFL	26-MAY-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50445
Account: ATC Group Services LLC.
Project: 539 North Road, Westfield, MA
Collected: 05/18/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
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No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50445

Misc. Forms

**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Meriden, MA 01752
TEL: 508-481-5200 FAX: 508-481-9753
www.accutest.com

PREM

MC50445
PAGE 1 OF 1

FED-EX Tracking #	SGS Accutest Order #	Matrix Codes
		DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil L - Sludge S - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EQ - Equipment Blank RB - Rinsate Blank TB - Trip Blank
Requested Analysis	TEST CODE	
537	078	
512017		
<p><i>EPA Method 537 Modified</i> <i>Total Asbestos</i></p>		

Client/Reporting Information		Project Information	
Company Name ATC Group Services	Project Name 539 North Rd. Westfield	Street 539 North Rd	Billing Information (if different from Report to)
Street Address 73 William Franks Dr.	City Westfield	City Westfield	Company Name
City West Springfield MA	Project # 183EH00170	Street Address	Street Address
Project Contact rob.smith@atcassociates.com	Client PO#	City	State
Phone # (413) 781-0570 ext 101	Project Manager Rob Smith	City	State
Fax # ext 101	Attention:	City	State
Sampler(s) Name(s) Elizabeth O'Connor	PO#	City	State

SGS Accutest Sample #	Field ID / Point of Collection	METHAN Val #	Date	Time	Sampled by	Matrix	# of bottles	Number of preserved bottles										Bottle			
								SW	WW	PHET	MS20A	NOISE	SLURRY	BIOWAS	BIOWAS	BIOWAS	BIOWAS		BIOWAS		
-1	539 North Rd. Field blank		5/18/17	16:00	EO	DW	2														X
-2	539 North Rd - 1		5/18/17	16:05	EO	DW	6	3	1												X
-3	539 North Rd - 2		5/18/17	16:06	EO	DW	2														X

<input type="checkbox"/> Turnaround Time (Business Days) <input type="checkbox"/> Std. 10 Business Days <input checked="" type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA LabLink	Approved by (SGS Accutest PM) / Date: _____ _____	<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLYI (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Residue Only Commercial "B" = Residue + OC Summary	<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____	HOLD = Field Blank HOLD = 539 north rd - 2 HOLD = 539 north rd - 1 for total As, Fc, hardness, TOC
---	--	---	---	---

Relinquished by Sampler: EOC Date Time: 5/18/17 16:45 Received By: 1 sample refrigerator EO.	Relinquished by Sampler: bcc Date Time: 5-19-17 Received By: [Signature]	Relinquished by Sampler: FR Date Time: 5/18/17 18:38 Received By: [Signature]	Relinquished By: [Signature] Date Time: 5/19/17 Received By: [Signature]	Relinquished By: [Signature] Date Time: 5-19-17 Received By: FEDX
---	---	--	--	---

6.1
6

MC50445: Chain of Custody
Page 1 of 2
SGS Accutest Southeast

SGS Accutest Sample Receipt Summary

Job Number: MC50445

Client: ATC

Project: 539 NORTH RD WESTFIELD

Date / Time Received: 5/20/2017 10:30:00 AM

Delivery Method: FX

Airbill #'s: 727375162573

Therm ID: IR 1;	Therm CF: 0.4;	# of Coolers: 2
Cooler Temps (Raw Measured) °C: Cooler 1: (0.1); Cooler 2: (0.7);		
Cooler Temps (Corrected) °C: Cooler 1: (0.5); Cooler 2: (1.1);		

Cooler Information	Y	or	N
1. Custody Seals Present	<input type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact	<input type="checkbox"/>		<input type="checkbox"/>
3. COC Present	<input type="checkbox"/>		<input type="checkbox"/>
4. Analysis requested is clear	<input type="checkbox"/>		<input type="checkbox"/>
5. Smpl Dates/Time OK	<input type="checkbox"/>		<input type="checkbox"/>
6. Temp criteria achieved	<input type="checkbox"/>		<input type="checkbox"/>
7. Cooler temp verification	IR Gun		
8. Cooler media	Ice (Bag)		

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	<input type="checkbox"/>		<input type="checkbox"/>	
2. Samples preserved properly	<input type="checkbox"/>		<input type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input type="checkbox"/>		<input type="checkbox"/>	
4. Correct # of containers used	<input type="checkbox"/>		<input type="checkbox"/>	
5. Condition of sample	Intact			
6. Sample recvd within HT	<input type="checkbox"/>		<input type="checkbox"/>	
7. Dates/Times on COC match Sample Label	<input type="checkbox"/>		<input type="checkbox"/>	
8. IDs on COC Match Sample Label	<input type="checkbox"/>		<input type="checkbox"/>	
9. VOCs headspace free (No Macro Bubbles)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
10. Bottles received but Analysis not requested	<input type="checkbox"/>		<input type="checkbox"/>	
11. All bottles received for analysis requested	<input type="checkbox"/>		<input type="checkbox"/>	
12. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
13. Filtering instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
14. 5035 Field Kits received within 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
15. Bulk Voa Soil Jars received within 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
16. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
17. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Trip Blank Intact ?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	<u>W</u>	or	<u>S</u>	<u>N/A</u>
4. Type Of TB Received	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Misc. Information			
Number of Encores: 25-Gram _____	5-Gram _____	Number of 5035 Field Kits: _____	Number of Lab Filtered Metals: _____
Test Strip Lot #s: pH 0-3 _____	pH 10-12 _____	Other: (Specify) _____	
Residual Chlorine Test Strip Lot #: _____			

Comments

SM001 Rev. Date 05/18/17 Technician: CARLOSP Date: 5/20/2017 10:30:00 A Reviewer: PDS Date: 5/20/2017



Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50445

ATCMAS: 539 North Road, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50445-2 Collected: 18-MAY-17 16:05 By: EO Received: 19-MAY-17 By: CP 539 NORTH RD-1						
MC50445-2	EPA 537	31-MAY-17 22:16	NAF	26-MAY-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50445
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 539 North Road, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-MB	2Q1786.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50445-2

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	ND	0.020	ug/l	
2991-50-6	EtFOSAA	ND	0.020	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	102%	70-130%
	13C2-PFDA	107%	70-130%
	d5-EtFOSAA	85%	70-130%

7.1.1
7

Blank Spike Summary

Job Number: MC50445
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 539 North Road, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-BS	2Q1785.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50445-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.154	0.157	102	70-130
375-85-9	Perfluoroheptanoic acid	0.154	0.176	114	70-130
335-67-1	Perfluorooctanoic acid	0.154	0.176	114	70-130
375-95-1	Perfluorononanoic acid	0.154	0.180	117	70-130
335-76-2	Perfluorodecanoic acid	0.154	0.160	104	70-130
2058-94-8	Perfluoroundecanoic acid	0.154	0.166	108	70-130
307-55-1	Perfluorododecanoic acid	0.154	0.130	84	70-130
72629-94-8	Perfluorotridecanoic acid	0.154	0.116	75	70-130
376-06-7	Perfluorotetradecanoic acid	0.154	0.111	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.154	0.171	111	70-130
355-46-4	Perfluorohexanesulfonic acid	0.154	0.181	118	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.154	0.161	105	70-130
2355-31-9	MeFOSAA	0.154	0.184	120	70-130
2991-50-6	EtFOSAA	0.154	0.169	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	111%	70-130%
	13C2-PFDA	118%	70-130%
	d5-EtFOSAA	98%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50445
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 539 North Road, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1783.D	Injection Time:	19:44
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	51592	4.38	121075	6.94	80626	6.91	41993	7.57	43847	7.51	180708	13.07
Upper Limit ^c	67239	5.38	160989	7.94	92905	7.91	55710	8.57	56839	8.51	217633	14.07
Lower Limit ^d	33620	3.38	80494	5.94	46453	5.91	27855	6.57	28419	6.51	108816	12.07

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65200-BS	51974	4.40	125480	6.94	80378	6.91	41812	7.58	45865	7.51	174916	13.07
OP65200-MB	51025	4.40	112651	6.94	79329	6.91	40513	7.58	44232	7.51	166827	13.04
ZZZZZZ	49707	4.40	115571	6.95	79567	6.93	40176	7.58	44028	7.51	162546	13.20
ZZZZZZ	45000	4.40	112438	6.94	73978	6.93	37997	7.58	41784	7.51	154581	13.22
ZZZZZZ	51556	4.40	119562	6.95	80653	6.93	40934	7.59	44230	7.51	167238	13.17
MC50445-2	49613	4.41	121847	6.95	85331	6.93	41953	7.59	47423	7.53	170676	13.22
OP65200-MS	52146	4.41	126442	6.95	79638	6.93	42098	7.59	45993	7.53	173344	13.12
OP65200-MSD	52428	4.41	127024	6.95	80987	6.93	42360	7.59	46691	7.53	174018	13.08

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1
7

Semivolatiles Surrogate Recovery Summary

Job Number: MC50445
Account: ALNE SGS Accutest New England
Project: ATCMAS: 539 North Road, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50445-2	2Q1790.D	94	88	76
OP65200-BS	2Q1785.D	111	118	98
OP65200-MB	2Q1786.D	102	107	85

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Suuberg
Commissioner

June 13, 2017

Robert Seher
1295 Southampton Road
Westfield, MA 01085

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Mr. Seher:

The Department of Environmental Protection collected a drinking water sample from your private well on May 18, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 7 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
1295 Southampton Road
Westfield, RTN 1-20093
June 13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

cc w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 1295 Southampton Road
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Robert Seher
2. Street Address: 1295 Southampton Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 1295 Southampton Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- Immediate Response Action
- Release Abatement Measure
- Utility-related Abatement Measure
- Phase I Initial Site Investigation
- Phase II Comprehensive Site Assessment
- Phase III Feasibility Evaluation
- Phase IV Remedy Implementation Plan
- Phase V/Remedy Operation Status
- Post-Temporary Solution Operation, Maintenance and Monitoring
- Other _____ (specify)

3. Description of property where sampling will be/has been conducted:

- residential
- commercial
- industrial
- school/playground
- Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



ACCUTEST
New England

06/02/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

1295 Southampton Road, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50446

Sampling Date: 05/18/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 24



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. Madadian
H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AH171119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.



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Sample Summary

ATC Group Services LLC.

Job No: MC50446

1295 Southampton Road, Westfield, MA
Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC50446-1	05/18/17	15:15	EO	05/19/17	DW Drinking Water FB	1295 SOUTHAMPTON-FIELD BLANK
MC50446-2	05/18/17	15:18	EO	05/19/17	DW Drinking Water	1295 SOUTHAMPTON-1
MC50446-3	05/18/17	15:19	EO	05/19/17	DW Drinking Water	1295 SOUTHAMPTON-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50446

Site: 1295 Southampton Road, Westfield, MA

Report Date 6/2/2017 8:50:21 AM

1 Sample was collected on 05/18/2017 and were received at SGS Accutest New England on 05/19/2017 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC50446. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: F:OP65200

- MC50446-2: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50446).

Friday, June 02, 2017

Page 1 of 1

SGS

4 of 24
ACCUTEST
MC50446

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50446

Site: ATCMAS: 1295 Southampton Road, Westfield, MA

Report Date 6/1/2017 7:43:39 PM

1 Sample was collected on 05/18/2017 and was received at SGS Accutest Southeast (SASE) on 05/20/2017 properly preserved, at 1.1 Deg. C and intact. This Sample received an SASE job number of MC50446. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65200

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: June 1, 2017

Lovelie Metzgar, QA Officer (signature on file)

Thursday, June 01, 2017

Page 1 of 1



Summary of Hits

Job Number: MC50446
Account: ATC Group Services LLC.
Project: 1295 Southampton Road, Westfield, MA
Collected: 05/18/17



Lab Sample ID	Client Sample ID	Result/ Analyte	Qual	RL	MDL	Units	Method
MC50446-2	1295 SOUTHAMPTON-1						

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1295 SOUTHAMPTON-1	Date Sampled:	05/18/17
Lab Sample ID:	MC50446-2	Date Received:	05/19/17
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 537 EPA 537		
Project:	1295 Southampton Road, Westfield, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1795.D	1	06/01/17 00:06	AFL	05/26/17 10:00	F:OP65200	F:S2Q48
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.0077	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.0077	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.0077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0077	ug/l	
2355-31-9	MeFOSAA	ND		0.019	ug/l	
2991-50-6	EtFOSAA	ND		0.019	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	94%		70-130%
	13C2-PFDA	92%		70-130%
	d5-EtFOSAA	78%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4.1
4

Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01762
TEL: 888-481-6200 FAX: 888-481-7753
www.accutest.com

PREM

PAGE 1 OF 1

Form containing tracking information, client/reporting information, project information, billing information, and a table for sample collection details including field ID, date, time, and analysis results.

5.1
5

SGS Accutest NE Sample Receipt Summary

Job Number: MC50446

Client: ATC

Project: 1295 SOUTHAMPTON

Date / Time Received: 5/19/2017 6:00:00 PM

Delivery Method: SGS COURIER

Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1 (0.5 / 0); #2 (1.1 / 0.6)

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Thermometer ID:	<u>IRGUN1;</u>	
3. Cooler media:	<u>Ice (Bag)</u>	
4. No. Coolers:	<u>1</u>	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

5.1



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No: 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough Project #: MC50446

Project Location: 1295 Southampton Road, Westfield, MA MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50446-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: H. Madadian Position: Laboratory Director

Printed Name: H. (Brad) Madadian Date: 02-Jun-17

5.2
5

Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50446

1295 Southampton Road, Westfield, MA
Project No: 183EM00170

5.3
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50446-2 Collected: 18-MAY-17 15:18 By: EO Received: 19-MAY-17 By: TF 1295 SOUTHAMPTON-1						
MC50446-2	EPA 537	01-JUN-17 00:06	AFL	26-MAY-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50446
Account: ATC Group Services LLC.
Project: 1295 Southampton Road, Westfield, MA
Collected: 05/18/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50446



Misc. Forms

**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7781
www.accutest.com

PREM MC50446 PAGE 1 OF 1

Form containing client/reporting information, project information, collection data table, data deliverable information, and sample custody log.

6.1 6

SGS Accutest Sample Receipt Summary

Job Number: MC50446

Client: ATC

Project: 1295 SOUTHAMPTON RD

Date / Time Received: 5/20/2017 10:30:00 AM

Delivery Method: FX

Airbill #'s: 727375162573

Therm ID: IR 1; Therm CF: 0.4; # of Coolers: 1
 Cooler Temps (Raw Measured) °C: Cooler : (0.7); Cooler 1: (0.1);
 Cooler Temps (Corrected) °C: Cooler : (1.1); Cooler 1: (0.5);

<u>Cooler Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>Sample Information</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Custody Seals Present	<input type="checkbox"/>		<input type="checkbox"/>	1. Sample labels present on bottles	<input type="checkbox"/>		<input type="checkbox"/>	
2. Custody Seals Intact	<input type="checkbox"/>		<input type="checkbox"/>	2. Samples preserved properly	<input type="checkbox"/>		<input type="checkbox"/>	
3. COC Present	<input type="checkbox"/>		<input type="checkbox"/>	3. Sufficient volume recvd for analysis:	<input type="checkbox"/>		<input type="checkbox"/>	
4. Analysis requested is clear	<input type="checkbox"/>		<input type="checkbox"/>	4. Correct # of containers used	<input type="checkbox"/>		<input type="checkbox"/>	
5. Smp Dates/Time OK	<input type="checkbox"/>		<input type="checkbox"/>	5. Condition of sample	<u>Intact</u>			
6. Temp criteria achieved	<input type="checkbox"/>		<input type="checkbox"/>	6. Sample recvd within HT	<input type="checkbox"/>		<input type="checkbox"/>	
7. Cooler temp verification	<u>IR Gun</u>			7. Dates/Times on COC match Sample Label	<input type="checkbox"/>		<input type="checkbox"/>	
8. Cooler media	<u>Ice (Bag)</u>			8. IDs on COC Match Sample Label	<input type="checkbox"/>		<input type="checkbox"/>	
<u>Trip Blank Information</u>				9. VOCs headspace free (No Macro Bubbles)	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
1. Trip Blank present / cooler	<input type="checkbox"/>		<input type="checkbox"/>	10. Bottles received but Analysis not requested	<input type="checkbox"/>		<input type="checkbox"/>	
2. Trip Blank listed on COC	<input type="checkbox"/>		<input type="checkbox"/>	11. All bottles received for analysis requested	<input type="checkbox"/>		<input type="checkbox"/>	
3. Trip Blank Intact ?	<input type="checkbox"/>		<input type="checkbox"/>	12. Compositing instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	<u>W or S</u>			13. Filtering instructions clear	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. Type Of TB Received	<input type="checkbox"/>		<input type="checkbox"/>	14. 5035 Field Kits received within 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
				15. Bulk Voa Soil Jars received within 48hrs?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
				16. % Solids Jar received?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
				17. Residual Chlorine Present?	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Misc. Information
 Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____
 Residual Chlorine Test Strip Lot #: _____

Comments

SM001 Rev. Date 05/18/17 Technician: CARLOSP Date: 5/20/2017 10:30:00 A Reviewer: PDS Date: 5/20/2017

MC50446: Chain of Custody
Page 2 of 2

6.1

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50446

ATCMAS: 1295 Southamton Road, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50446-2 Collected: 18-MAY-17 15:18 By: EO Received: 19-MAY-17 By: CP 1295 SOUTHAMPTON-1						
MC50446-2	EPA 537	01-JUN-17 00:06	NAF	26-MAY-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

7

Method Blank Summary

Job Number: MC50446
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 1295 Southampton Road, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-MB	2Q1786.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50446-2

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	ND	0.020	ug/l	
2991-50-6	EtFOSAA	ND	0.020	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	102%	70-130%
	13C2-PFDA	107%	70-130%
	d5-EtFOSAA	85%	70-130%

7.1.1
7

Blank Spike Summary

Job Number: MC50446
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 1295 Southampton Road, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65200-BS	2Q1785.D	1	05/31/17	NAF	05/26/17	OP65200	S2Q48

The QC reported here applies to the following samples:

Method: EPA 537

MC50446-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.154	0.157	102	70-130
375-85-9	Perfluoroheptanoic acid	0.154	0.176	114	70-130
335-67-1	Perfluorooctanoic acid	0.154	0.176	114	70-130
375-95-1	Perfluorononanoic acid	0.154	0.180	117	70-130
335-76-2	Perfluorodecanoic acid	0.154	0.160	104	70-130
2058-94-8	Perfluoroundecanoic acid	0.154	0.166	108	70-130
307-55-1	Perfluorododecanoic acid	0.154	0.130	84	70-130
72629-94-8	Perfluorotridecanoic acid	0.154	0.116	75	70-130
376-06-7	Perfluorotetradecanoic acid	0.154	0.111	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.154	0.171	111	70-130
355-46-4	Perfluorohexanesulfonic acid	0.154	0.181	118	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.154	0.161	105	70-130
2355-31-9	MeFOSAA	0.154	0.184	120	70-130
2991-50-6	EtFOSAA	0.154	0.169	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	111%	70-130%
	13C2-PFDA	118%	70-130%
	d5-EtFOSAA	98%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50446
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 1295 Southampton Road, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1783.D	Injection Time:	19:44
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	51592	4.38	121075	6.94	80626	6.91	41993	7.57	43847	7.51	180708	13.07
Upper Limit ^c	67239	5.38	160989	7.94	92905	7.91	55710	8.57	56839	8.51	217633	14.07
Lower Limit ^d	33620	3.38	80494	5.94	46453	5.91	27855	6.57	28419	6.51	108816	12.07

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65200-BS	51974	4.40	125480	6.94	80378	6.91	41812	7.58	45865	7.51	174916	13.07
OP65200-MB	51025	4.40	112651	6.94	79329	6.91	40513	7.58	44232	7.51	166827	13.04
ZZZZZZ	49707	4.40	115571	6.95	79567	6.93	40176	7.58	44028	7.51	162546	13.20
ZZZZZZ	45000	4.40	112438	6.94	73978	6.93	37997	7.58	41784	7.51	154581	13.22
ZZZZZZ	51556	4.40	119562	6.95	80653	6.93	40934	7.59	44230	7.51	167238	13.17
MC50445-2	49613	4.41	121847	6.95	85331	6.93	41953	7.59	47423	7.53	170676	13.22
OP65200-MS	52146	4.41	126442	6.95	79638	6.93	42098	7.59	45993	7.53	173344	13.12
OP65200-MSD	52428	4.41	127024	6.95	80987	6.93	42360	7.59	46691	7.53	174018	13.08

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDoDA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time + 1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time - 1 minutes of check standard.

7.3.1
7

Semivolatiles Internal Standard Area Summary

Job Number: MC50446
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 1295 Southampton Road, Westfield, MA

Check Std:	S2Q48-CC47	Injection Date:	05/31/17
Lab File ID:	2Q1793.D	Injection Time:	23:22
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	48028	4.30	114992	6.84	66361	6.81	39793	7.45	40599	7.47	155452	12.49
Check Std ^b	53549	4.41	124338	6.95	80885	6.93	43054	7.59	45631	7.53	180941	13.09
Upper Limit ^c	67239	5.41	160989	7.95	92905	7.93	55710	8.59	56839	8.53	217633	14.09
Lower Limit ^d	33620	3.41	80494	5.95	46453	5.93	27855	6.59	28419	6.53	108816	12.09

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
MC50446-2	50095	4.41	128610	6.96	86324	6.94	43190	7.60	49265	7.53	176796	13.25
ZZZZZZ	50542	4.41	121368	6.96	81919	6.94	40990	7.60	44784	7.53	167982	13.25
ZZZZZZ	51367	4.42	120767	6.96	84395	6.94	41457	7.60	46485	7.53	168609	13.28
ZZZZZZ	50479	4.42	121226	6.96	84095	6.94	41278	7.60	46645	7.53	166819	13.29
ZZZZZZ	51715	4.42	120864	6.96	81455	6.94	41150	7.60	44644	7.53	167392	13.19
ZZZZZZ	50506	4.42	121004	6.96	80467	6.94	41022	7.60	45067	7.53	167742	13.13
S2Q48-ECC47	48769	4.43	117087	6.97	69109	6.95	42623	7.63	42206	7.53	150668	13.19

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFD_oDA

- (a) Initial Cal is: S2Q47-ICC47 2Q1742.D 05/30/17 16:40. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.2
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50446
Account: ALNE SGS Accutest New England
Project: ATCMAS: 1295 Southampton Road, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50446-2	2Q1795.D	94	92	78
OP65200-BS	2Q1785.D	111	118	98
OP65200-MB	2Q1786.D	102	107	85

Surrogate Compounds	Recovery Limits
---------------------	-----------------

S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

7.4.1
7



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

June 13, 2017

Anjum & Shaeza Khawaja
43 Hillcrest Circle
Westfield, MA 01085

Re: Notice of Environmental Sampling
Westfield Private Well Sampling
Barnes Air National Guard Base
Westfield, RTN 1-20093

Dear Mr. & Mrs. Khawaja:

The Department of Environmental Protection collected a drinking water sample from your private well on May 10, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. **The sampling results indicate PFC compounds were not detected above the laboratory reporting level (RL) of 15 parts per trillion (ppt).** The EPA Health Advisory Level is 70 ppt. This health advisory level offers a margin of protection for all individuals throughout their life from adverse health effects resulting from exposure to PFCs in drinking water.¹ Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Notice of Environmental Sampling
43 Hillcrest Circle
Westfield, RTN 1-20093
Jun13, 2017
Page 2 of 2

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec w/all NOES Letters and Lab Reports:
Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 43 Hillcrest Circle
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Anjum & Shaeza Khawaja
2. Street Address: 43 Hillcrest Circle
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 43 Hillcrest Circle
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

A drinking water sample was collected from the private well located on the above-referenced property and analyzed for PFAS compounds via EPA Method 537.1

E. Contact information related to the party providing this notice:

Contact Name: Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 755-2221 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

SGS

ACCUTEST New England

05/31/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

ATC Group Services LLC.

43 Hill Crest, Westfield, MA

183EM00170

SGS Accutest Job Number: MC50377

Sampling Date: 05/10/17

Report to:

ATC Group Services LLC.
73 Williams Franks Drive
West Springfield, MA 01089
rob.smith@atcassociates.com

ATTN: Rob Smith

Total number of pages in report: 24



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579)
NJ (MA926) PA (6801121) LA (AII71119) ND (R-188) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

New England • 50 D'Angelo Drive • Building 1 • Marlborough, MA 01752 • tel: 508-481-6200 • fax: 508-481-7753 • <http://www.accutest.com>

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Unauthorized modification of this report is strictly prohibited.
Review standard terms at: <http://www.sgs.com/en/terms-and-conditions>

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ACCUTEST
MC50377

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Sample Summary

ATC Group Services LLC.

Job No: MC50377

43 Hill Crest, Westfield, MA
Project No: 183EM00170

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
MC50377-1	05/10/17	11:18 JB	05/11/17	DW Drinking Water FB	43 HILL CREST FIELD BLANK
MC50377-2	05/10/17	11:28 JB	05/11/17	DW Drinking Water	43 HILL CREST-1
MC50377-3	05/10/17	11:29 JB	05/11/17	DW Drinking Water	43 HILL CREST-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: ATC Group Services LLC.

Job No MC50377

Site: 43 Hill Crest, Westfield, MA

Report Date 5/31/2017 6:22:56 PM

1 Sample was collected on 05/10/2017 and were received at SGS Accutest New England on 05/11/2017 properly preserved, at 3.6 Deg. C and intact. These Samples received a job number of MC50377. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW	Batch ID: F:OP65104
-------------------	----------------------------

- MC50377-2: Analysis performed at SGS Accutest, Orlando FL.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC50377).

Wednesday, May 31, 2017

Page 1 of 1



4 of 24
ACCUTEST
MC50377

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Accutest New England

Job No: MC50377

Site: ATCMAS: 43 Hill Crest, Westfield, MA

Report Date 5/30/2017 5:56:30 PM

1 Sample(s) were collected on 05/10/2017 and were received at SGS Accutest Southeast (SASE) on 05/12/2017 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of MC50377. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537

Matrix: DW

Batch ID: OP65104

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date May 30, 2017

Kim Benham, Client Services (signature on file)

Tuesday, May 30, 2017

Page 1 of 1

Summary of Hits

Job Number: MC50377
Account: ATC Group Services LLC.
Project: 43 Hill Crest, Westfield, MA
Collected: 05/10/17



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

MC50377-2 43 HILL CREST-1

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

4.1
4

Client Sample ID: 43 HILL CREST-1	Date Sampled: 05/10/17
Lab Sample ID: MC50377-2	Date Received: 05/11/17
Matrix: DW - Drinking Water	Per cent Solids: n/a
Method: EPA 537 EPA 537	
Project: 43 Hill Crest, Westfield, MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q1589.D	1	05/25/17 17:18	AFL	05/19/17 09:00	F:OP65104	F:S2Q44
Run #2							

Run #	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND		0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	ND		0.015	ug/l	
335-67-1	Perfluorooctanoic acid	ND		0.015	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.015	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.015	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.015	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND		0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND		0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.015	ug/l	
2355-31-9	MeFOSAA	ND		0.038	ug/l	
2991-50-6	EtFOSAA	ND		0.038	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	107%		70-130%
	13C2-PFDA	85%		70-130%
	d5-EtFOSAA	82%		70-130%

(a) Analysis performed at SGS Accutest, Orlando FL.

ND = Not detected
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
50 D'Angelo Drive, Building One Marlborough, MA 01762
TEL: 808-481-6200 FAX: 808-481-7753
www.accutest.com

PREM

FED-EX Tracking #
Bottle Order Control #
SGS Account Quote #
SGS Account Job # MC50377

Form containing project information (Company Name: AIT Group Services, Project Name: 43 Hillcrest), collection data table with columns for Field ID, Date, Time, Sampled by, Matrix, # of bottles, and various analysis parameters (NH3, NH4, NO3, NO2, PO4, PHOS, PHT, DIVER, DIVER, HED, HED, HED, HED). Includes turnaround time options, data deliverable information, and a chain of custody table.

5.1 5

SGS Accutest NE Sample Receipt Summary

Job Number: MC50377

Client: ATC

Project: 43 HILL CREST

Date / Time Received: 5/11/2017 5:45:00 PM

Delivery Method: SGS COURIER

Airbill #s:

Cooler Temps (Initial/Adjusted): #1 (3.9 / 3.4); #2 (4.1 / 3.6):

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|--------------------------|-------------------------------------|------------------------|-------------------------------------|--------------------------|
| 1. Custody Seats Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seats Intact: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. Smp'l Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | ; IRGUN1; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 2 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

NOTE: 537 volume received
-1, -2, -3: (2) 120ml N/P poly

5.1 5



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

WSC-CAM

Exhibit VII A

July 1, 2010

Revision No. 1

Final

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name: SGS Accutest- Marlborough

Project #: MC50377

Project Location: 43 Hill Crest, Westfield, MA

MADEP RTN None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
MC50377-2

Matrices: Groundwater/Surface Water () Soil/Sediment () Drinking Water (X) Air () Other ()

CAM Protocol (check all that apply below):

8260 VOC () CAM IIA	7470/7471 Hg () CAM III B	MassDEP VPH () CAM IV A	8081 Pesticides () CAM V B	7196 Hex Cr () CAM VI B	Mass DEP APH () CAM IX A
8270 SVOC () CAM II B	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides () CAM V C	8330 Explosives () CAM VIII A	TO-15 VOC () CAM IX B
6010 Metals () CAM III A	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A	6860 Perchlorate () CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.			
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No ¹

All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: H. Madadian Position: Laboratory Director

Printed Name: H. (Brad) Madadian Date: 31-May-17

5.2

5



Internal Sample Tracking Chronicle

ATC Group Services LLC.

Job No: MC50377

43 Hill Crest, Westfield, MA
Project No: 183EM00170



Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50377-2 Collected: 10-MAY-17 11:28 By: JB Received: 11-MAY-17 By: TF 43 HILL CREST-1						
MC50377-2	EPA 537	25-MAY-17 17:18	AFL	19-MAY-17	AFL	LC537LIST

QC Evaluation: MA MCP Limits

Job Number: MC50377
Account: ATC Group Services LLC.
Project: 43 Hill Crest, Westfield, MA
Collected: 05/10/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

5.4
5

* Sample used for QC is not from job MC50377



Misc. Forms

6**Custody Documents and Other Forms**

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle



ACCUTEST

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7733
www.sgs.com

FED-EX Tracking #	Blow Order Control #
SGS Accutest Quote #	SGS Account Job # MC50377

Client / Reporting Information			Project Information			Requested Analysis (see TEST CODE sheet)															Matrix Codes	
Company Name: SGS Accutest			Project Name: 43 Hill Crest, Westfield, MA																		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment CS - CS LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Waste FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address: 50 D'Angelo Drive, 495 Technology Center West, Bldg One			Street: 43 Hill Crest, Westfield, MA																			
City: Marlborough, MA 01761			City: Westfield, MA																			
Project Contact: Jeremy Vienneau			Project #:																			
Phone #: 508-481-6200			Client Purchase Order #:																			
Sampler(s) Name(s): JB			Project Manager:																			
Turnaround Time (Business days)			Data Deliverable Information															Comments / Special Instructions				
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 8 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> other Due 5/26/2017 <small>Emergency & Rush T/A data available via Lablink</small>			Approved By (SGS Accutest PMP) / Date:			<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other MAMCP															Ship to ALSEA - 10 Day TAT	
Requisitioned by: Michelle Frey Date Time: 5/11/17 13:00 Requisitioned by Samplet: Date Time: Requisitioned by: Date Time:			Received By: Frey, J Received By: Received By: Received By:			Requisitioned By: FX Date Time: 05-12-17 Requisitioned By: Date Time: Requisitioned By: Date Time: Requisitioned By: Date Time:															Received By: J. Egan (ALSEA) 10:00 Received By: Received By: Received By:	
			Custody Seal #			<input type="checkbox"/> In use <input type="checkbox"/> Not used															Produced where Applicable <input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp. 2.6	

6.1
6

MC50377: Chain of Custody
Page 1 of 3
SGS Accutest Southeast

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: MC50377 CLIENT: ALWE PROJECT: 43 HillCrest, Westfield, MA
 DATE/TIME RECEIVED: 05/12/17; 10:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 7273 7516 2286

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____
 TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR + 0.4
- OBSERVED TEMPS: 2.2
- CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- % SOLIDS JAR NOT RECEIVED
- RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JE 05-12-17 REVIEWER SIGNATURE/DATE [Signature] 05/12/17
 NF 02/16 receipt confirmation 020116.xls

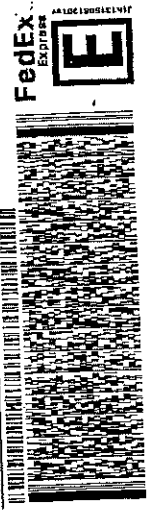
6.1
6

SHIP DATE: 11 MAY 17
ACTIVITY: 4601 / 32811
CRU: 0306917 / 032811
BILL RECEIPT

ORIGIN: ISHERA (508) 481-6820
LABORATORY: ACCUTEST
50 D'ANSELMO AVE. H-1 BUILDING 1
MERRIDEN, CT 06452
UNITED STATES US

TO: **SAMPLE MANAGEMENT**
SGS ACCUTEST SOUTHEAST
405 VINELAND RD
SUITE C - 15
ORLANDO FL 328115803

REF: ATC

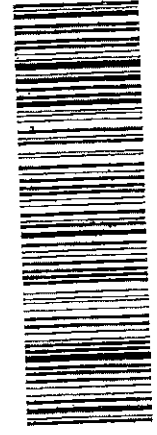


FRI - 12 MAY 3:00P
STANDARD OVERNIGHT

7273 7516 2286

EA ORLA

32811
FL-US MCO



MC50377: Chain of Custody
Page 3 of 3



Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC50377

ATCMAS: 43 Hill Crest, Westfield, MA
Project No: 183EM00170

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC50377-2 Collected: 10-MAY-17 11:28 By: JB Received: 11-MAY-17 By: JC 43 HILL CREST-1						
MC50377-2	EPA 537	25-MAY-17 17:18	NAF	19-MAY-17	MB	LC537LIST

6.2
6

GC/MS Semi-volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC50377
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 43 Hill Crest, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-MB	2Q1583.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50377-2

7.1.1
7

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0080	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	ug/l	
2355-31-9	MeFOSAA	0.00830	0.020	ug/l	J
2991-50-6	EtFOSAA	0.00820	0.020	ug/l	J

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	97%	70-130%
	d5-EtFOSAA	84%	70-130%

Blank Spike Summary

Job Number: MC50377
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 43 Hill Crest, Westfield, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP65104-BS	2Q1582.D	1	05/25/17	NAF	05/19/17	OP65104	S2Q44

The QC reported here applies to the following samples:

Method: EPA 537

MC50377-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.08	0.0914	114	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0909	114	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0920	115	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0879	110	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0845	106	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0806	101	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0560	70	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0560	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.08	0.0573	72	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0906	113	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0959	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0848	106	70-130
2355-31-9	MeFOSAA	0.08	0.0840	105	70-130
2991-50-6	EtFOSAA	0.08	0.0751	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	101%	70-130%
	d5-EtFOSAA	88%	70-130%

* = Outside of Control Limits.

7.2.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC50377
 Account: ALNE SGS Accutest New England
 Project: ATCMAS: 43 Hill Crest, Westfield, MA

Check Std:	S2Q44-ICC44	Injection Date:	05/25/17
Lab File ID:	2Q1575.D	Injection Time:	12:05
Instrument ID:	GCMS2Q	Method:	EPA 537

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Initial Cal ^a	50830	4.32	137051	6.86	73983	6.84	43220	7.48	42070	7.49	173483	12.95
Check Std ^b	52574	4.32	142116	6.86	78268	6.84	45526	7.48	44842	7.49	181670	12.95
Upper Limit ^c	71162	5.32	191871	7.86	103576	7.84	60508	8.48	58898	8.49	242876	13.95
Lower Limit ^d	35581	3.32	95936	5.86	51788	5.84	30254	6.48	29449	6.49	121438	11.95

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP65104-BS	54066	4.35	149252	6.87	80208	6.86	46522	7.50	49903	7.50	171685	13.10
OP65104-MB	47506	4.36	119656	6.89	70063	6.86	40007	7.52	41401	7.51	147993	13.10
MC50374-2	38148	4.36	101851	6.89	60208	6.86	33170	7.52	37195	7.51	123733	13.10
OP65104-MS	38486	4.36	108557	6.89	59407	6.88	32640	7.52	34879	7.51	134048	13.18
OP65104-MSD	40665	4.36	113084	6.89	60474	6.88	34363	7.52	35269	7.51	139666	13.09
ZZZZZZ	45909	4.37	119918	6.90	70072	6.88	38502	7.53	40871	7.51	153879	13.19
MC50377-2	46717	4.37	118053	6.90	68658	6.88	38745	7.53	42144	7.51	154986	13.20
ZZZZZZ	50017	4.37	126134	6.90	74925	6.88	41198	7.52	44565	7.51	167394	13.05

- IS 1 = 13C3-PFPeA
- IS 2 = 13C2-6:2FTS
- IS 3 = 13C2-PFOA
- IS 4 = 13C4-PFOS
- IS 5 = d3-MeFOSAA
- IS 6 = 13C2-PFDaDA

- (a) Initial Cal is: S2Q44-ICC44 2Q1575.D 05/25/17 12:05. Area is AVERAGE of initial cal points.
- (b) Check Std Limit = -50 to +50% of initial cal area.
- (c) Upper Limit = +40% of initial standard area; Retention time +1 minutes of check standard.
- (d) Lower Limit = -30% of initial standard area; Retention time -1 minutes of check standard.

7.3.1
7

Semivolatile Surrogate Recovery Summary

Job Number: MC50377
Account: ALNE SGS Accutest New England
Project: ATCMAS: 43 Hill Crest, Westfield, MA

Method: EPA 537	Matrix: DW
-----------------	------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC50377-2	2Q1589.D	107	85	82
OP65104-BS	2Q1582.D	109	101	88
OP65104-MB	2Q1583.D	115	97	84

Surrogate Compounds	Recovery Limits
---------------------	-----------------

S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%
S3 = d5-EtFOSAA	70-130%

7.4.1
7