IMMEDIATE RESPONSE ACTION
STATUS REPORT NO. 6
NANTUCKET MEMORIAL AIRPORT
14 AIRPORT ROAD
NANTUCKET, MASSACHUSETTS

RTN 4-28219

Prepared for:

Nantucket Memorial Airport
Nantucket, Massachusetts

Prepared by:

WESTON SOLUTIONS, INC.
43 N. Main Street
Concord, New Hampshire 03301

6 November 2020

Work Order No. 15295.002.001

TABLE OF CONTENTS

Section **Page**

1. INTRODUCTION 1-1

2. DESCRIPTION OF THE SITE AND RELEASE 2-1

2.1 GENERAL DISPOSAL SITE INFORMATION 2-1

2.2 DESCRIPTION OF THE RELEASE 2-1

3. ASSESSMENT AND REMEDIAL ACTION STATUS 3-1

3.1 STATUS OF ASSESSMENT ACTIVITIES 3-1

3.2 ANALYTICAL RESULTS RECEIVED DURING THE REPORTING PERIOD 3-3

3.3 OTHER ACTIVITIES 3-5

3.4 NOTIFICATION TO RESIDENTS AND ACCESS AGREEMENTS 3-6

3.5 SIGNIFICANT NEW SITE INFORMATION 3-7

3.6 MANAGEMENT OF REMEDIATION WASTE 3-7

3.7 CONCLUSIONS AND LICENSED SITE PROFESSIONAL OPINION 3-7

4. REFERENCES 4-1

LIST OF FIGURES

Title

Figure 1 Nantucket Memorial Airport Site Location Map

Figure 2 Nantucket Memorial Airport Site Map

Figure 3 Groundwater Potentiometric Surface and PFAS Concentrations in Groundwater and Drinking Water

Figure 4 Western Properties Abutting Nantucket Memorial Airport

LIST OF TABLES

Title

Table 1 Summary of PFAS Detections in Drinking Water – Madequecham Valley Road Residences

Table 2 Summary of PFAS Detections in Drinking Water – West Side Residences & Nobadeer Way Study Group

LIST OF ATTACHMENTS

Title

Attachment 1 USPS Certified Mail Receipts West Side Residents - October 2020

Attachment 2 Laboratory Analytical Data

LIST OF ACRONYMS

ACK	Nantucket Memorial Airport
AFFF	aqueous film-forming foam
CFR	Code of Federal Regulation
CMR	Code of Massachusetts Regulations
COC	chain-of-custody
Commission	Nantucket Memorial Airport Commission
Culligan	Culligan Water Filtration of New England
Disposal Site or Site	14 Airport Road Nantucket, Massachusetts
EPA	United States Environmental Protection Agency
F3	fluorine-free foam
Eurofins	Eurofins Lancaster Laboratories Environmental
ft	feet/foot
IH	Imminent Hazard
IRA	Immediate Response Action
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
ng/L	nanograms per liter
PFAS	per- and polyfluoroalkyl substances
PFOS	Perfluorooctanesulfonic acid
POET	point-of-entry treatment
ppt	parts per trillion
RTN	Release Tracking Number
USPS	United States Postal Service
Wannacomet	Wannacomet Water Company
WESTON®	Weston Solutions, Inc.

SECTION 1

INTRODUCTION

1. INTRODUCTION

On behalf of the Nantucket Memorial Airport Commission (the "Commission"), owner and operator of the Nantucket Memorial Airport (ACK), Weston Solutions, Inc. (WESTON®) has prepared this Immediate Response Action (IRA) Status Report for the Disposal Site associated with Release Tracking Number (RTN) 4-28219. This IRA Status Report was prepared in accordance with the Massachusetts Contingency Plan (MCP), 310 Code of Massachusetts Regulations (CMR) 40.0425, and as required by the Massachusetts Department of Environmental Protection (MassDEP). This report is submitted to MassDEP via the online filing system under Transmittal Form BWSC-105 and covers the period from 1 October 2020 through 31 October 2020.

The person or entity assuming responsibility for conducting the IRA is the current owner of the property:

Nantucket Memorial Airport
c/o Mr. Tom Rafter, Airport Manager
14 Airport Road
Nantucket, MA 02554
(508) 325-5300

For the purposes of this report, the "Site" is defined as the area located within the legal property boundaries of 14 Airport Road in Nantucket, Massachusetts (**Figure 1**). The "Disposal Site" for RTN 4-28219 includes additional properties to the south of the airport property (**Figure 2**) where contaminants potentially-related to ACK have been identified in groundwater. The extent of the Disposal Site is estimated and will be further defined through investigations to be conducted as part of the Comprehensive Site Assessment.

SECTION 2

DESCRIPTION OF THE SITE AND RELEASE

2. DESCRIPTION OF THE SITE AND RELEASE

2.1 GENERAL DISPOSAL SITE INFORMATION

The Disposal Site includes multiple parcels of land, the majority of which are in use by ACK while the remainder are commercial or residential in nature. The location of the Site is presented on **Figure 1**, and a detailed site plan is presented as **Figure 2**.

The Site is a cleared area that includes runways, taxiways, a fuel farm, numerous buildings related to airport operations (terminal, hangers, maintenance, administration, etc.), and lots occupied by commercial aviation-related tenants. North and west of ACK are residential and commercial properties, while to the east, the land is largely undeveloped. A line of beachfront homes is located to the south, between ACK and the Atlantic Ocean. Wannacomet Water Company (Wannacomet) supplies municipal water to ACK and many of the surrounding properties. Wannacomet obtains its water from four groundwater supply wells located within the Sole Source Aquifer that underlies the entire island of Nantucket. One private water supply well was identified on ACK property and serves a hangar located north of the ACK administration buildings.

Twenty-two private drinking water supply wells are located within 500 feet (ft) and downgradient (south) of the Airport in a residential area along Madequecham Valley Road. These homes are primarily seasonal vacation homes inhabited by adults and children that may serve as potential receptors during the summer months.

A second residential area that is serviced by a combination of private drinking water wells and municipal water is located crossgradient (west) of the Airport. Some of these homes are within close proximity of known aqueous film-forming foam (AFFF) release areas Runway 6 Runup and South Ramp at Taxiway J (**Figure 2**). The majority of these residences are occupied year-round by adults and children that may serve as potential receptors.

2.2 DESCRIPTION OF THE RELEASE

In February 2020, per- and polyfluoroalkyl substances (PFAS) were detected in the drinking water well at a home located south of the Airport on Madequecham Valley Road, and also in several monitoring wells on the Airport at concentrations exceeding the RCGW-1 criterion. Subsequent sampling has identified additional homes along Madequecham Valley Road that have PFAS in their water supply wells.

At this time, some of the releases are believed to be associated with AFFF discharged at ACK as part of the Federal Aviation Administration-required testing and training events described in detail in the 2020 IRA Plan (WESTON, 2020a). Per 14 Code of Federal Regulation (CFR) §139.315-319, ACK has used AFFF: (1) as part of its storage of readiness and reserve; and (2) during required drills, training, testing, and maintenance activities. Under 14 CFR §139.321 and National Fire Protection Association 407, ACK has also stored AFFF for fire suppression readiness at the Airport's fuel farm. AFFF is not believed to have been used for any emergencies at the Airport since at least 1989, and no known accidental releases are known to have occurred. Further, as ACK is in the process of switching to fluorine-free foam (F3) for use at the fuel farm, any potential release(s) are believed to be historical. ACK has recently taken delivery of an E-1 AFFF testing system for its aircraft rescue and firefighting vehicles, and is in the process of converting its fuel farm fire suppression systems to an F3 system that is anticipated to be completed by May 2021. At this point, no future AFFF release to the environment is anticipated unless as part of a response to an aircraft incident before the conversion to F3 is completed. A list of known AFFF release events as well as a general location map is provided below. However, it should be noted that other potential sources of PFAS in groundwater, including AFFF applications by parties other than the Airport, have not yet been completely investigated and therefore cannot be ruled out. Further investigations will be performed to determine the full nature and extent of the PFAS impacts and identify the source(s) as part of future Comprehensive Response Actions.

AFFF Application Area	Approximate Timeframe of Application	Estimated Volume of AFFF Concentrate Applied
RW6 Run-up	1995–2015	25–50 gallons
South Ramp at J	2015–2018	25–50 gallons
Fuel Farm	1998–2013	~200 gallons
South Ramp at B	1995–2015	25–50 gallons
Sand Pit	1989–1994, 2008	150–300 gallons
RW15/33 Midpoint	1989–2013	~625 gallons
Strojny Lot	2015–2019	600–750 gallons
RW24 Approach	1995–2015	275–550 gallons
NFD Drill	2015	Unknown

As mentioned above, the presence of PFAS in groundwater was first confirmed in February 2020 and subsequently reported to MassDEP. Concentrations of PFAS were observed to exceed Category RCGW-1 Reportable Concentrations of 20 nanograms per liter (ng/L) for the six PFAS compounds (perfluoroheptanoic acid, perfluorohexanesulfonic acid, perfluorooctanoic acid, perfluorooctanesulfonic acid (PFOS), perfluorononanoic acid, and perfluorodecanoic acid) individually or summed in drinking water and hereafter referred to as "PFAS6." This constituted a 2-hour Reportable Condition pursuant to 310 CMR 40.0311(6); where an oil or hazardous material concentration in a private drinking water supply well is present at concentrations equal or exceeding the RCGW-1 criterion, even though the home was unoccupied at the time of sample collection. In response, MassDEP assigned RTN 4-0028219 to this release. MassDEP verbally approved initial IRA activities, including design and installation of a point-of-entry treatment (POET) system for the impacted residence. The detection of PFAS in the drinking water supply represents a Critical Exposure Pathway as defined by the MCP. Additional details and the results of this effort can be found in the 2020 IRA Plan (WESTON, 2020a).

Ongoing investigation efforts at the Disposal Site are focused on identifying other private water supply wells that could be impacted by the presence of PFAS in groundwater that may be related to the historic use of AFFF at the Airport and mitigating any impacts that are discovered. In accordance with the MCP, a Phase I Initial Site Investigation Report and Tier Classification must be completed by 28 February 2021.

MassDEP issued a letter to ACK dated 1 July 2020, that requested the 2020 IRA Plan be modified to include 10 clarifications as follows:

1) Make every attempt to sample all remaining private drinking water supply wells along Madequecham Valley Road for PFAS and document such attempts.

2) Offer bottled water to homeowners with wells within 500 ft of documented impacts of PFAS above 20 ng/L that deny access to sample their well, out of an abundance of caution.

3) Offer bottled water to homeowners that have any detection of any concentration of PFAS, even those below 20 ng/L.

4) Installation of POET systems for private wells that have PFAS concentrations exceeding 200 ng/L are to be prioritized based on exposure risk.

5) For water supply wells where PFAS is found to exceed 200 ng/L, the owners shall be informed of the results and provided bottled water; a POET shall be installed within 2 weeks that treats the entire home including the outdoor spigot, and the owners shall be provided information regarding potential risks and best management practices to minimize exposure until the POET can be installed.

6) Confirmatory PFAS sampling is required at homes along Madequecham Valley Road where the PFAS concentration was less than 20 ng/L, including those where PFAS compounds were not detected.

7) All homeowners will be provided copies of their testing results within 30 days of the ACK's receipt of the data.

8) For homes with PFAS concentrations greater than 200 ng/L, water from irrigation systems shall be included in the POET system unless it can be demonstrated that procedures to mitigate the exposure have been implemented. For homes where the owner does not want the irrigation system water to be treated due to reduced performance of the irrigation system, the owner will be provided with best management practices to avoid exposure until town water is supplied.

9) MassDEP will be consulted before remediation waste is disposed.

10) Provide a plan to evaluate soil conditions in known AFFF application areas on the Airport.

A modification to the 2020 IRA Plan was included in the August 2020 IRA Status Report (WESTON. 2020d) submitted to MassDEP that incorporated and addressed the 10 clarifications summarized above.

SECTION 3

ASSESSMENT AND REMEDIAL ACTION STATUS

3. ASSESSMENT AND REMEDIAL ACTION STATUS

The information provided in this section addresses the requirements of the MCP as detailed in 310 CMR 40.0425(3)(a) through (e). Additional details regarding the actions completed previously are outlined below and can be found in the submitted reports, as cited.

3.1 STATUS OF ASSESSMENT ACTIVITIES

During this reporting period, one POET installation event was completed on 14 and 15 October 2020 and two PFAS sampling events were conducted on 29 and 30 October 2020. The details of each event are discussed below.

POET Installations – 14 through 16 October 2020

WESTON oversaw the installation of seven POET systems by Culligan Water Filtration of New England (Culligan) including the following:

PROPERTY ID	NUMBER OF POETS	INSTALLATION DATE
Property CC	Two	14 October 2020
Property MQ (also supplies Property YVA)	One	14 October 2020
Property FM	One	15 October 2020
Property EV	One	15 October 2020
Property RN	Two	15 October 2020

Each POET installation consisted of two in-line, 48-inch tall, granular activated carbon absorbers containing 3 cubic feet of Calgon Filtrasorb 400 granular activated carbon media, a sediment filter, a flow totalizer, drip pans, and insulation. At Property FM, electrical wiring was discovered not encased in electrical conduit within the planned path of the water line from the pressure tank to the POET system. As a result, the system was installed but cannot be activated until the water line can be safely installed around the electrical line. Culligan is currently preparing a revised scope of work to safely install the water line around the electrical lines in accordance with plumbing codes. Once this is reviewed and approved by WESTON, the work will be performed. This residence is slated for winterization on 15 November 2020, and will not be activated until the 2021 season.

During installation activities, permanent sample ports were installed between the first and second vessel (partially treated) at all locations. A permanent sample port was installed post-treatment (fully treated) at all locations except the POET system at the main residence at Property RN, where an effluent sample port could not be installed due to the configuration of the system and limited space. Instead, a fully-treated sample will be collected at an interior faucet. Pre-treatment samples will be collected at the pressure tank port at all locations. Sample data collected from these ports will allow for development of a breakthrough curve during the maintenance and monitoring period. Post-installation PFAS confirmatory samples for six of the seven systems were collected at the end of October as detailed below.

Drinking Water Sampling on Madequecham Valley Road – 29 October 2020

Confirmation samples were collected from the recently-installed POET systems at three residences including Properties CC (two systems), EV (one system), and RN (two systems). Samples were collected from pre-, mid-, and post-POET system to confirm the systems are operating as designed. Samples were not collected at Property FM as the installation process was not completed. Regular monthly POET system monitoring was completed at six additional properties including Properties XA, QO, KH, TD, UE, and IB.

All PFAS samples were packed in an ice-filled cooler and submitted under standard chain-of-custody (COC) procedures to Eurofins Lancaster Laboratories Environmental (Eurofins) for analysis of PFAS via the United States Environmental Protection Agency (EPA) Method 537 Version 1.1. Analytical results for these samples are expected to be available in November 2020.

Drinking Water Sampling West Side - 30 October 2020

WESTON performed drinking water sampling for PFAS at eight residences located on the west side of Airport, including two site evaluations.

PROPERTY ID	GROUPING	SAMPLE TYPE
Property BK	Nobadeer Way[1]	Initial PFAS
Property DJ	Nobadeer Way[1]	Initial PFAS
Property JA	Nobadeer Way[1]	Initial PFAS
Property MQ (also supplies Property YVA)	West Side	POET Confirmation

PROPERTY ID	GROUPING	SAMPLE TYPE
Property HF	West Side	Site Evaluation[2]
Property JI	West Side	Site Evaluation[2]
Property YI	West Side	Initial PFAS
Property ZG	West Side	Initial PFAS

NOTES

[1]Residences on Nobadeer Way, Evergreen Way, and Daffodil Lane are part of a localized study area being evaluated for potential PFAS impacts that may not be related to ACK applications of AFFF as they are hydraulically upgradient of known AFFF release areas identified at the Airport.

[2]Site evaluations are completed in advance of POET system installation.

All initial PFAS samples were collected in duplicate from the pressure tank or an unfiltered inside faucet or outside spigot after purging water for 15 minutes. Samples were placed in zip seal plastic bags, packed in an ice-filled cooler, and submitted under standard COC procedures to Eurofins for analysis of PFAS via EPA Method 537 Version 1.1. Analytical results for these samples are expected to be available in mid-November 2020.

Site evaluations are conducted ahead of POET system installations. In addition to assessing the specifications of the well (i.e., yield) and potential system locations, water supply samples were collected in duplicate for analysis of water quality parameters including hardness, calcium, iron, magnesium, manganese, sodium, total organic carbon, total alkalinity, total dissolved solids, fluoride, pH, nitriate, nitrate, coliform, e-coli, chloride, sulfate, and radon. All site evaluation water quality samples were packed in an ice filled cooler and submitted under COC to Alpha Analytical of Mansfield, Massachusetts. Analytical results for these samples are expected to be available in mid-November 2020.

3.2 ANALYTICAL RESULTS RECEIVED DURING THE REPORTING PERIOD

Four sets of analytical data were received during this reporting period. The results for each data package are summarized below and in **Table 1** and **Table 2**. Sampling locations are shown on **Figure 3** and **Figure 4**.

PFAS Analytical Results – 29 September 2020 Drinking Water / POET Sampling Event

Six residences with POET systems were sampled and all but two contained no PFAS detections in the effluent samples. Perfluorooctane sulfonic acid was detected in the effluent samples at Properties KH and TD at concentrations of 2.0 parts per trillion (ppt) and 2.6 ppt, respectively. Prior POET system inspections identified no operational issues with the systems; however, the detection of PFOS in the effluent, while below MassDEP drinking water criteria, indicates additional evaluation is required to resolve the issue. Because of the ubiquitous nature of PFAS and analysis at such low quantities, additional effort has been undertaken to identify the source of the PFOS, including collecting additional quality control samples at each residence to verify the sampling method, ambient conditions, and laboratory analytical methods. Additional tasks to be undertaken include collecting samples of the plumbing products (plumber's tape and pipe thread sealant) used to assemble the system to understand if they are a potential source of PFOS in the system. Both residences continue to receive bottled water during occupancy.

Two residences on Madequecham Valley Road that had not been sampled previously due to access issues (Properties NU and VT) contained PFAS6 concentrations at 21.8 ppt and 596 ppt, respectively, both above the RCGW-1 of 20 ppt. Neither of these residences are currently occupied (one is closed for the season and the other is under construction), but the process has been started for the design and installation of POET systems at both homes.

It should be noted that all residences on Madequecham Valley Road have now been sampled for PFAS.

PFAS Analytical Results – 30 September 2020 Drinking Water

On 19 October 2020, PFAS analytical results were received for the 14 samples collected during the 30 September 2020 sampling event. Of the 14 residences sampled on the West Side of the Airport, four properties (Properties YD, AY, ZW, and HF) had detectable PFAS6 concentrations exceeding the RCGW-1 in drinking water samples (see **Table 2**). Of note, Property HF previously had a detection slightly below the RCGW-1 (but within 1 ppt) and was resampled to confirm the original result. The concentrations of PFAS6 detected in samples from the other eight properties were all below the RCGW-1. PFAS6 were not detected in 2 of the 14 drinking water samples.

The Wannacomet Water supplies municipal water in the Nobadeer Way Study Area. As such, Properties AY, YD, and ZW will bypass the installation of a POET and will be connected to Wannacomet Water by Spring 2021. Homes located on Madequecham Valley Road will be provided water via a new water service that will connect with the existing water service to the west of the airport. The project is currently in design. It is expected that design and permitting will be completed by the spring of 2021 with construction occurring during the summer and fall of 2021. Property HF is occupied year-round, does not have water service readily available, and will have a POET system installed as soon as possible.

3.3 OTHER ACTIVITIES

Bottled Water Orders

Within the reporting period, WESTON arranged for free delivery of bottled water to the following residences based on detections of PFAS at concentrations exceeding the RCGW-1 in wells within 500 ft:

- Nobadeer Way Study Group
  - Properties BK, DJ, JA, QR
- Skyline Drive
  - Properties CB, RJ, VC, YI, ZG

Upcoming POET Installations and Sampling Schedule

Point-of-entry treatment system installations will be scheduled for two residences on the West Side (Properties HF and JI) and two properties on Madequecham Valley Road (Properties NU and VT). These four residences have detectable PFAS6 concentrations exceeding the RCGW-1 of 20 ppt. Property VT has total PFAS concentrations greater than 200 ppt; which represents an Imminent Hazard (IH) condition, but the home is under construction and is currently unoccupied. Therefore, design and installation of the POET will proceed with less urgency and coordinated with the ongoing construction work. The POET will be installed prior to occupancy of the home.

The next sampling event is scheduled for the end of November 2020 and will include the following:

Residences on Madequecham Valley Road

- Monthly POET sampling
- Quarterly PFAS sampling at occupied residences with concentrations less than 20 ppt

Residences Abutting to ACK to the West

- Monthly POET sampling
- Quarterly PFAS sampling of homes with total PFAS concentrations exceeding 15 ppt

Residences within the Nobadeer Way Study Group

- Drinking water sampling at all remaining locations on Nobadeer Way, Evergreen Way, and the step-out locations identified on **Figure 4** (pending receipt of signed access agreements).

- The Airport is currently working with Wannacomet to develop a plan to connect Nobadeer Way Study Group properties to municipal water. This work is being fast-tracked and, as such, POET systems may not be installed at these locations, in lieu of water line connections.

3.4 NOTIFICATION TO RESIDENTS AND ACCESS AGREEMENTS

Samples have been collected from all residences abutting the Airport to the west where access agreements have been obtained. There are currently nine properties on the west side that have been selected for sampling, but no response has been received from the owner (Properties CB, GL, IP, LW, NT, QR, RJ, VC, and VM).

Due to PFAS6 concentrations exceeding the RCGW-1 at Properties AY, HF, YD, and ZW, drinking water samples will need to be collected at up to nine additional "step-out" properties (**Figure 4**). Access agreements and information packages are being sent by the United States Postal Service (USPS) via certified mail with return receipts requested. At the time of this report, we are in the process of contacting remaining property owners; however, access agreements have not yet been obtained. Those residences will be sampled in an upcoming sampling event once access agreements have been obtained. Certified letter receipts and returned letters obtained in October 2020 are included as **Attachment 1**.

3.5 SIGNIFICANT NEW SITE INFORMATION

A new AFFF release area was identified during this reporting period. The area is identified as the NFD Drill area on **Figure 2** and **Figure 3** and is located on the northeastern portion of ACK near the Strojny Lot. Online data indicate that in 2015 the Nantucket Fire Department conducted at least one drill exercising their "foam attack" trailer at this location. At this time, the quantity and type of AFFF used, and the frequency of release(s) at this location are unknown. ACK notified MassDEP of this discovery on 30 October 2020 via email. The Airport continues to review available records to evaluate whether there have been any other applications of AFFF as part of training exercises at ACK.

3.6 MANAGEMENT OF REMEDIATION WASTE

No remediation waste has been generated at the Site during the period of performance covered by this IRA Status Report.

3.7 CONCLUSIONS AND LICENSED SITE PROFESSIONAL OPINION

This IRA is being conducted in response to the detection of PFAS in groundwater and drinking water representing an IH condition at a Critical Exposure Pathway. Mitigation measures for affected residences with total PFAS6 concentrations above 20 ng/L are being taken; including provision of bottled water and installation of POET systems. As of the date of this letter, POET systems have been installed at nine residences on Madequecham Valley Road, which includes all residences that were deemed an IH due to PFAS6 concentrations above 200 ng/L. Additional POET systems are being scheduled for installation at two residences on Madequecham Valley Road and two residences on the West Side. Three of these remaining locations have documented PFAS6 concentrations exceeding 20 ng/L but below 200 ng/L, while one location exceeds 200 ng/L but is not currently occupied (**Figure 3**). Bottled water is currently being provided to all residents with detectable concentrations of PFAS6 or those within 500 ft of an exceedance of PFAS6 in either a groundwater or drinking water well unless declined by the property owner.

Under the Licensed Site Professional of Record (James J. Soukup, #5888), this IRA Plan was prepared in accordance with 310 CMR 40.0411, 40.0414, and 40.0425. His seal and signature are included on the Immediate Response Action Transmittal Form BWSC-105 submitted concurrently with this IRA Plan via the eDEP online filing system.

SECTION 4

REFERENCES

4. REFERENCES

14 C.F.R. §139.315-319 and §139.321

Federal Aviation Administration. 2006. *National Part 139 CertAlert No. 16-05: Update on Mil-Spec Aqueous Film Forming Foam (AFFF).* September 1.

Massachusetts Department of Environmental Protection (MassDEP). 2014. *310 CMR 40: Massachusetts Contingency Plan.* April 25.

MassDEP Bureau of Waste Site Cleanup, Phase I Site Assessment Map. http://maps.massgis.state.ma.us/images/dep/mcp/mcp.htm. Accessed April 13, 2020.

Nantucket Memorial Airport (ACK). 2019. *Response to Request for Information, Notice of Response Action, and Interim Deadlines Enforcement Document Number 00008382*. December 20.

Town and County of Nantucket. *Online GIS Maps*. https://www.nantucket-ma.gov/151/GIS-Maps. Accessed March and April 2020.

Weston Solutions, Inc. (WESTON). 2020a. *Immediate Response Action Plan. Nantucket Memorial Airport, 14 Airport Road, Nantucket, Massachusetts. RTN 4-28219*. April 29.

WESTON. 2020b. *Immediate Response Action Status Report No. 1. Nantucket Memorial Airport, 14 Airport Road, Nantucket, Massachusetts. RTN 4-28219.* June 2.

WESTON. 2020c. *Immediate Response Action Status Report No. 2. Nantucket Memorial Airport, 14 Airport Road, Nantucket, Massachusetts. RTN 4-28219.* July 2.

WESTON. 2020d. *Immediate Response Action Status Report No. 3. Nantucket Memorial Airport, 14 Airport Road, Nantucket, Massachusetts. RTN 4-28219.* August 4.

WESTON. 2020e. *Immediate Response Action Status Report No. 4. Nantucket Memorial Airport, 14 Airport Road, Nantucket, Massachusetts. RTN 4-28219.* September 8.

WESTON. 2020f. *Immediate Response Action Status Report No. 5. Nantucket Memorial Airport, 14 Airport Road, Nantucket, Massachusetts. RTN 4-28219.* October 8.

FIGURES

SCALE:

0 5,000 10,000 20,000

Feet

TITLE:

NANTUCKET MEMORIAL AIRPORT
SITE LOCATION MAP

PROJECT:
NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

CLIENT NAME:
NANTUCKET MEMORIAL AIRPORT

WESTON SOLUTIONS

DATE:
11/5/2020

FIGURE #:
1

Legend

- Sampled
- Sampled, Awaiting Results
- Awaiting Access
- Monitoring Well
- Property Supplied by Town Water
- Tax Parcels
- Parcel Boundary – Step Out
- Known Release Areas
- RWY 06 Runway
- E Taxiway
- Gate
- Site Fence
- Estimated Disposal Site Boundary

Source:
1. MassGIS Data: USGS Color Ortho Imagery (2013/2014)

SCALE: 850 425 0 850 Feet

TITLE: NANTUCKET MEMORIAL AIRPORT SITE MAP

PROJECT: NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

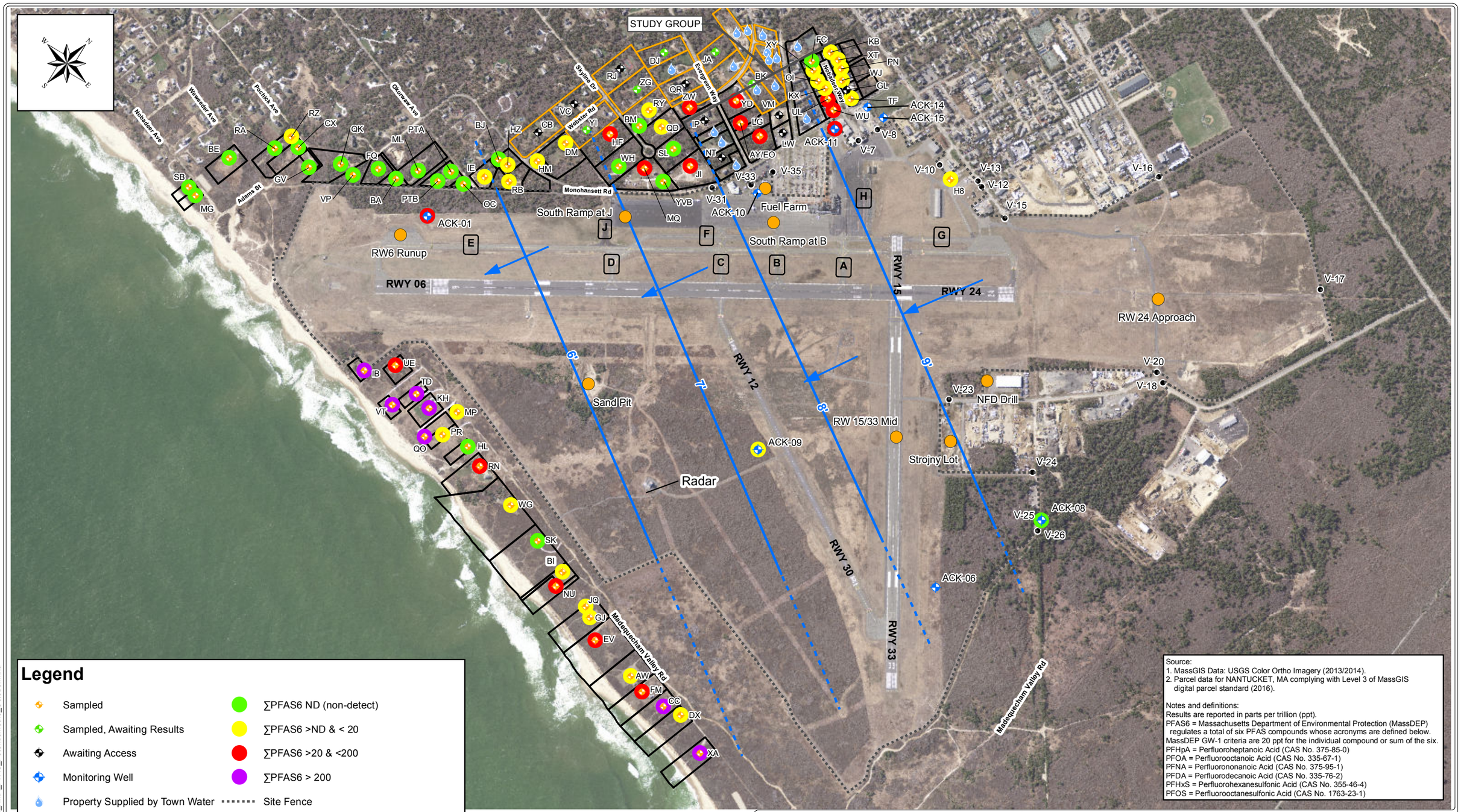
CLIENT NAME: NANTUCKET MEMORIAL AIRPORT

WESTON SOLUTIONS SM

DATE: November 2020

FIGURE #: 2

Path: P:\Nantucket_Airport\mxd\25862_NMA_Site_Map_Fig2.mxd



Legend

- Sampled
- Sampled, Awaiting Results
- Awaiting Access
- Monitoring Well
- Property Supplied by Town Water
- Tax Parcels
- Parcel Boundary – Step Out
- Known Release Areas
- RWY 06 — Runway
- E — Taxiway
- ∑PFAS6 ND (non-detect)
- ∑PFAS6 >ND & < 20
- ∑PFAS6 >20 & <200
- ∑PFAS6 > 200
- Site Fence
- Gate
- 7.20` — February 2020 Groundwater Elevation (feet)
- Groundwater Flow Direction
- February 2020 Groundwater Elevation Contour (dashed where inferred)

Source:
1. MassGIS Data: USGS Color Ortho Imagery (2013/2014).
2. Parcel data for NANTUCKET, MA complying with Level 3 of MassGIS digital parcel standard (2016).

Notes and definitions:
Results are reported in parts per trillion (ppt).
PFAS6 = Massachusetts Department of Environmental Protection (MassDEP) regulates a total of six PFAS compounds whose acronyms are defined below.
MassDEP GW-1 criteria are 20 ppt for the individual compound or sum of the six.
PFHpA = Perfluoroheptanoic Acid (CAS No. 375-85-0)
PFOA = Perfluorooctanoic Acid (CAS No. 335-67-1)
PFNA = Perfluorononanoic Acid (CAS No. 375-95-1)
PFDA = Perfluorodecanoic Acid (CAS No. 335-76-2)
PFHxS = Perfluorohexanesulfonic Acid (CAS No. 355-46-4)
PFOS = Perfluorooctanesulfonic Acid (CAS No. 1763-23-1)

SCALE: 900 450 0 900 Feet

PROJECT: NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

CLIENT NAME: NANTUCKET MEMORIAL AIRPORT

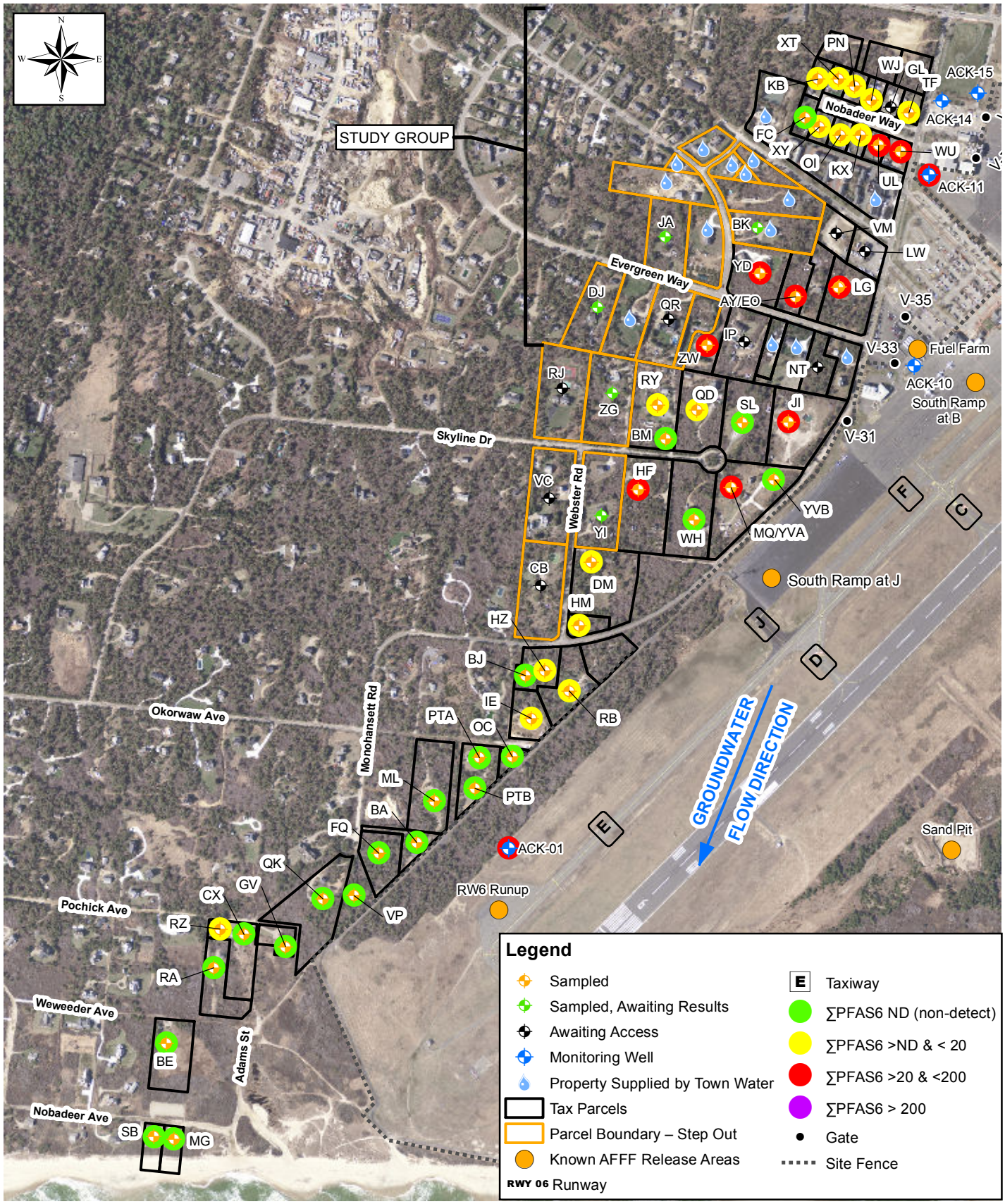
GROUNDWATER POTENTIOMETRIC SURFACE AND PFAS CONCENTRATIONS IN GROUNDWATER AND DRINKING WATER

WESTON SOLUTIONS SM

DATE: November 2020

FIGURE #: 3

Path: P:\Nantucket_Airport\mxd\25718_NMA_PFAS_Potentiometric_October.mxd



SCALE:
700 350 0 700
Feet

TITLE:
WESTERN PROPERTIES ABUTTING NANTUCKET MEMORIAL AIRPORT

PROJECT:
NANTUCKET MEMORIAL AIRPORT
14 AIRPORT RD, NANTUCKET, MA 02554

CLIENT NAME:
NANTUCKET MEMORIAL AIRPORT

WESTON SOLUTIONS

DATE:
November 2020

FIGURE #:
4

Path: P:\Nantucket_Airport\mxd\26021_NMA_West_Side_Properties_Fig4_Sep2020.mxd

TABLES

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			Property AW (22 MVR)	Property BI (36 MVR)	Property CC (18 MVR)	Property DX (16 MVR)		Property EV (26 MVR)		Property FM (20 MVR)		Property GJ (28 MVR)		Property HL (48 MVR)	
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	7/20/2020	8/4/2020	7/20/2020	5/6/2020	8/4/2020	6/11/2020	8/26/2020	6/3/2020	8/26/2020	6/4/2020	8/26/2020	6/4/2020	8/26/2020
Lab Sample ID				410-8658-5	410-10038-4	410-8658-6	PW1311844	410-10038-2	410-4374-3	410-12323-2	410-3640-3	410-12305-3	410-3640-7	410-12323-6	410-3640-6	410-12323-12
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na	<1.8	<1.8	**54**	<0.43	<1.9	**47**	**36**	**7.9**	**9.5**	**5.7**	**5.3**	<1.8	<1.8
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20	<1.8	<1.8	**13**	<0.43	<1.9	**6.2**	**5.2**	**2.4**	**2.9**	**2.0**	**1.9**	<1.8	<1.8
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	<1.8	**5.6**	**25**	<0.43	<1.9	**2.7**	**2.3**	<1.8	<1.8	**2.3**	**1.9**	<1.8	<1.8
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	<1.8	<1.8	<1.8	<0.43	<1.9	<1.8	<1.8	<1.8	<1.8	<1.7	<1.9	<1.8	<1.8
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<1.8	<1.8	<1.8	<0.43	<1.9	<1.8	<1.8	<1.8	<1.8	<1.7	<1.9	<1.8	<1.8
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na	<1.8	<1.8	**2.8**	<0.43	<1.9	**3.1**	<1.8	<1.8	<1.8	<1.7	<1.9	<1.8	<1.8
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20	**2.5**	**2.7**	**170**	**4.8**	**4.8**	**12**	**7.5**	**5.8**	**8.4**	**6.5**	**6.9**	<1.8	<1.8
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	**4.1**	<1.8	**270**	**6.2**	**4.8**	**7.6**	**5.5**	**14**	**17**	**4.8**	**4.5**	<1.8	<1.8
Total of PFAS6 Compounds	na	20	20	**6.6**	**8.3**	**478**	**11**	**9.6**	**29**	**21**	**22**	**28**	**16**	**15**	ND	ND
Total Measured PFAS	na	na	na	**6.6**	**8.3**	**535**	**11**	**9.6**	**79**	**57**	**30**	**38**	**19**	**21**	ND	ND
% PFAS6 Compounds vs. Total PFAS	na	na	na	100.0%	100.0%	89.4%	100.0%	100.0%	36.3%	36.3%	73.8%	74.9%	82.1%	74.1%	na	na

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			Property IB (100 MVR)										Property JQ (30 MVR)
				No POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET	
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	5/6/2020	7/20/2020	7/20/2020	7/20/2020	8/26/2020	8/26/2020	8/26/2020	9/29/2020	9/29/2020	9/29/2020	7/20/2020
Lab Sample ID				PW1311843	410-8658-15	410-8658-14	410-8658-13	410-12324-5	410-1224-3	410-12324-2	410-15877-14	410-15877-12	410-15877-10	410-8658-7
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na	**99**	**130**	<1.8	<1.8	**140**	<1.8	<1.8	**210**	<1.7	<1.7	**<1.9**
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20	**88**	**97**	<1.8	<1.8	**95**	<1.8	<1.8	**140**	<1.7	<1.7	**<1.9**
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**20**	**26**	<1.8	<1.8	**24**	<1.8	<1.8	**26**	<1.7	<1.7	**<1.9**
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	**15**	**17**	<1.8	<1.8	**13**	<1.8	<1.8	**14**	<1.7	<1.7	<1.9
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	**2.0**	**2.3**	<1.8	<1.8	**1.9**	<1.8	<1.8	**1.9**	<1.7	<1.7	<1.9
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na	**1.6J**	**1.8**	<1.8	<1.8	**1.8**	<1.8	<1.8	**2**	<1.7	<1.7	<1.9
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20	**26**	**28**	<1.8	<1.8	**28**	<1.8	<1.8	**29**	<1.7	<1.7	**3.4**
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	**81**	**86**	**45**	**4.3**	**100**	**3.1**	**<1.8**	**110**	<1.7	<1.7	**1.9**
Total of PFAS6 Compounds	na	20	20	**232**	**256**	**45**	**4.3**	**262**	**3.1**	**ND**	**321**	ND	ND	**5**
Total Measured PFAS	na	na	na	**333**	**762**	**45**	**4.3**	**404**	**3.1**	**ND**	**533**	ND	ND	**5**
% PFAS6 Compounds vs. Total PFAS	na	na	na	69.8%	33.6%	100.0%	100.0%	64.9%	100.0%	na	60.2%	na	na	100.0%

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			Property KH (52 MVR)							Property MP (51 MVR)		Property NU (34 MVR)	Property PR (50 MVR)	
				No POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET					
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	6/3/2020	8/4/2020	8/4/2020	8/4/2020	9/29/2020	9/29/2020	9/29/2020	6/11/2020	8/26/2020	9/29/2020	6/4/2020	8/26/2020
Lab Sample ID				410-3640-4	410-10038-7	410-10038-6	410-10038-5	410-15874-13	410-15874-11	410-15874-9	410-4374-6	410-12323-10	410-15877-8	410-3640-11	410-12323-4
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na	**94**	**120**	<1.9	<1.9	**170**	<1.8	<1.9	<1.8	<1.8	**7.5**	<1.8	<1.8
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20	**41**	**51**	<1.9	<1.9	**67**	<1.8	<1.9	<1.8	<1.8	**3.2**	<1.8	<1.8
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**32**	**57**	**2.7**	**<1.9**	**81**	<1.8	<1.9	<1.8	<1.8	<1.6	<1.8	<1.8
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	**3.7**	**4.9**	<1.9	<1.9	**5.2**	<1.8	<1.9	<1.8	<1.8	<1.6	<1.8	<1.8
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<1.8	<1.9	<1.9	<1.9	<1.7	<1.8	<1.9	<1.8	<1.8	<1.6	<1.8	<1.8
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na	**38**	**50**	<1.9	<1.9	**43**	<1.8	<1.9	<1.8	<1.8	<1.6	<1.8	<1.8
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20	**410**	**610**	<1.9	<1.9	**650**	<1.8	<1.9	**5.0**	**8.7**	**17**	**5.3**	**7.5**
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	**600**	**630**	**18**	**<1.9**	**530**	**4.8**	**2**	<1.8	**3.0**	**1.6**	**4.7**	**5.5**
Total of PFAS6 Compounds	na	20	20	**1087**	**1353**	**20.7**	**ND**	**1333**	**5**	**2**	**5.0**	**11.7**	**21.8**	**10**	**13**
Total Measured PFAS	na	na	na	**1219**	**1523**	**20.7**	**ND**	**1546**	**5**	**2**	**5.0**	**11.7**	**29.3**	**10**	**13**
% PFAS6 Compounds vs. Total PFAS	na	na	na	89.2%	88.8%	100.0%	na	86.2%	100.0%	100.0%	100.0%	100.0%	74.4%	100.0%	100.0%

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			Property QO (50R MVR)										Property RN (46 MVR)
				No POET	Pre POET	Mid POET	Post POET	Pre-POET	Mid POET	Post POET	Pre-POET	Mid POET	Post POET	
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	5/6/2020	7/20/2020 Q	7/20/2020	7/20/2020	8/26/2020	8/26/2020	8/26/2020	9/29/2020	9/29/2020	9/29/2020	7/21/2020
Lab Sample ID				PW1311846	410-8658-12	410-8658-11	410-8658-10	410-12322-5	410-12322-3	410-12322-1	410-15874-5	410-15874-3	410-15874-1	410-8658-22
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na	**410**	**880** B	<1.9	<1.7	**830**	<1.8	<1.9	**980**	<1.8	<2.0	<1.9
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20	**42**	**62** B	<1.9	<1.7	**53**	<1.8	<1.9	**70**	<1.8	<2.0	<1.9
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**300**	**1300** B	<1.9	<1.7	**1800**	<1.8	<1.9	**2100**	<1.8	<2.0	<1.9
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	**0.53J**	<1.8	<1.9	<1.7	<1.7	<1.8	<1.9	<18	<1.8	<2.0	**10**
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<0.43	<1.8	<1.9	<1.7	<1.7	<1.8	<1.9	<18	<1.8	<2.0	<1.9
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na	**140**	**220**	<1.9	<1.7	**190**	<1.8	<1.9	**180**	<1.8	<2.0	<1.9
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20	**400**	**1400**	<1.9	<1.7	**1600**	<1.8	<1.9	**2000**	<1.8	<2.0	**7.2**
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	**8.5**	**9.9**	**2.7**	**28**	**12**	<1.8	<1.9	<18	<1.8	<2.0	**32**
Total of PFAS6 Compounds	na	20	20	**751**	**2772**	**2.7**	**28**	**3465**	ND	ND	**4170**	ND	ND	**49**
Total Measured PFAS	na	na	na	**1301**	**3872**	**2.7**	**28**	**4485**	ND	ND	**5330**	ND	ND	**49**
% PFAS6 Compounds vs. Total PFAS	na	na	na	57.7%	71.6%	100.0%	100.0%	77.3%	na	na	78.2%	na	na	100.0%

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			Property SK (40 MVR)		Property TD (54 MVR)						
						No POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	6/3/2020	8/26/2020	6/11/2020	8/4/2020	8/4/2020	8/4/2020	9/29/2020	9/29/2020	9/29/2020
Lab Sample ID				410-3640-1	410-12323-8	410-4374-5	410-10038-10	410-10038-9	410-10038-8	410-15877-20	410-15877-18	410-15877-16
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na	<1.8	<1.9	**230**	**220**	<1.8	<1.9	**270**	<1.7	<1.7
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20	<1.8	<1.9	**90**	**94**	<1.8	<1.9	**100**	<1.7	<1.7
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	<1.8	<1.9	**69**	**78**	<1.8	<1.9	**120**	<1.7	<1.7
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	<1.8	<1.9	**22**	**29**	<1.8	<1.9	**37**	<1.7	<1.7
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<1.8	<1.9	<1.8	<1.9	<1.8	<1.9	<1.7	<1.7	<1.7
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na	<1.8	<1.9	**48**	**47**	<1.8	<1.9	<1.7	<1.7	<1.7
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20	<1.8	<1.9	**700**	**790**	<1.8	<1.9	**1300**	<1.7	<1.7
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	<1.8	<1.9	**230**	**390**	**33**	**22**	**410**	**2.1**	**2.6**
Total of PFAS6 Compounds	na	20	20	ND	ND	**1111**	**1381**	**33**	**22**	**1967**	**2**	**3**
Total Measured PFAS	na	na	na	ND	ND	**1389**	**1648**	**33**	**22**	**2237**	**2**	**3**
% PFAS6 Compounds vs. Total PFAS	na	na	na	na	na	80.0%	83.8%	100.0%	100.0%	87.9%	100.0%	100.0%

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			Property UE (60 MVR)															
				2/18/2020	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)		5/6/2020	5/6/2020	5/6/2020	6/4/2020	6/4/2020	6/4/2020	7/20/2020	7/20/2020	7/20/2020	8/26/2020	8/26/2020	8/26/2020	9/29/2020	9/29/2020	9/29/2020
Lab Sample ID				PW1263645	PW1311851	PW1311850	PW 1311849	410-3640-10	410-3640-9	410-3640-8	410-8658-4	410-8658-3	410-8658-2	410-12326-5	410-12326-3	410-12326-1	410-15877-6	410-15877-4	410-15877-2
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na	**160**	**180**	**0.73J**	<0.45	**200**	<2.1	<2.0	**190**	<2.1	<1.9	**190**	<1.9	<2.1	**300**	<1.9	<1.8
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20	**56**	**70**	<0.44	<0.45	**65**	<2.1	<2.0	**63**	<2.1	<1.9	**63**	<1.9	<2.1	**95**	<1.9	<1.8
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**11**	**12**	<0.44	<0.45	**11**	<2.1	<2.0	**11**	<2.1	<1.9	**12**	<1.9	<2.1	**16**	<1.9	<1.8
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	**5.6**	**6**	<0.44	<0.45	**5.3**	<2.1	<2.0	**6.1**	<2.1	<1.9	**6.2**	<1.9	<2.1	**8**	<1.9	<1.8
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	**2.3**	**2.4**	<0.44	<0.45	**2.2**	<2.1	<2.0	**2.5**	<2.1	<1.9	**2.5**	<1.9	<2.1	**3.4**	<1.9	<1.8
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na	**2.3**	**2.3**	<0.44	<0.45	**2.3**	<2.1	<2.0	**2.4**	<2.1	<1.9	**2.2**	<1.9	<2.1	**2.7**	<1.9	<1.8
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20	**37**	**40**	**0.54J**	<0.45	**39**	<2.1	<2.0	**38**	<2.1	<1.9	**38**	<1.9	<2.1	**46**	<1.9	<1.8
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	**48**	**50**	**2.0**	**0.55J**	**49**	<2.1	<2.0	**50**	<2.1	<1.9	**51**	<1.9	<2.1	**62**	<1.9	<1.8
Total of PFAS6 Compounds	na	20	20	**160**	**180**	**1.27**	**0.55**	**172**	ND	ND	**171**	ND	ND	**173**	ND	ND	**230**	ND	ND
Total Measured PFAS	na	na	na	**322**	**363**	**1.27**	**0.55**	**374**	ND	ND	**363**	ND	ND	**365**	ND	ND	**533.10**	ND	ND
% PFAS6 Compounds vs. Total PFAS	na	na	na	49.6%	49.7%	100.0%	100.0%	45.9%	na	na	47.0%	na	na	47.3%	na	na	43.2%	na	na

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			Property VT (56R MVR)	Property WG (44 MVR)		Property XA (12 MVR)									
							No POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET	Pre POET	Mid POET	Post POET
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	9/29/2020	6/3/2020	8/26/2020	5/6/2020	7/20/2020	7/20/2020	7/20/2020	8/26/2020	8/26/2020	8/26/2020	9/29/2020	9/29/2020	9/29/2020
Lab Sample ID				410-15874-7	410-3640-5	410-12305-1	PW1311845	410-8658-9	410-8658-8	410-8658-24	410-12284-5	410-12284-3	410-12284-1	410-15874-20	410-15874-18	410-15874-16
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na	<1.7	<1.7	<1.8	**9.5**	**12**	<1.8	<1.8	**8.8**	**9.0**	<1.7	**8.5**	<1.7	<1.8
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20	**320**	<1.7	<1.8	**3.7**	**3.4**	<1.8	<1.8	**2.7**	**2.9**	<1.7	**2.9**	<1.7	<1.8
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**130**	<1.7	<1.8	**7.5**	**7**	<1.8	<1.8	**5.1**	**5.1**	<1.7	**6**	<1.7	<1.8
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	**82**	<1.7	<1.8	<0.43	<1.8	<1.8	<1.8	<1.8	<1.9	<1.7	<1.7	<1.7	<1.8
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	**35**	<1.7	<1.8	<0.43	<1.8	<1.8	<1.8	<1.8	<1.9	<1.7	<1.7	<1.7	<1.8
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na	<1.7	<1.7	**2.9**	**11**	**13**	<1.8	<1.8	**10**	**10**	<1.7	**9.3**	<1.7	<1.8
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20	**15**	<1.7	**2.8**	**87**	**100**	<1.8	<1.8	**82**	**89**	<1.7	**99**	<1.7	<1.8
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	**14**	<1.7	<1.8	**530**	**470**	**52**	**13**	**350**	**340**	<1.7	**410**	**3.2**	<1.8
Total of PFAS6 Compounds	na	20	20	**596**	ND	**2.8**	**628**	**580**	**52**	**13**	**440**	**437**	ND	**518**	**3**	ND
Total Measured PFAS	na	na	na	**596**	ND	**5.7**	**649**	**605**	**52**	**13**	**449**	**446**	ND	**536**	**3**	ND
% PFAS6 Compounds vs. Total PFAS	na	na	na	100.0%	na	49.1%	96.8%	95.9%	100.0%	100.0%	98.0%	98.0%	na	96.7%	100.0%	na

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			Property 8H (Hangar 8)	*Field Quality Control Samples*	BLIND DUPLICATES							
						DW1	QA-01	QA-02	QA-03	QA-04	QA-05	QA-06	QA-06
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	7/21/2020		2/18/2020	5/6/2020	6/4/2020	6/11/2020	8/4/2020	8/26/2020	8/26/2020	9/29/2020
Lab Sample ID				410-8658-21		PW1263646	PW1311847	410-3640-12	410-4374-7	410-10038-3	410-12323-15	410-12305-5	410-15874-15
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na	**4.7**		**170**	**430**	<1.8	<1.8	<1.9	<1.8	**9.4**	**170**
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20	**2.7**		**55**	**45**	<1.8	<1.8	<1.9	<1.8	**3.1**	**62**
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**4.4**		**11**	**300**	<1.8	<1.8	<1.9	<1.8	<1.9	**81**
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	<1.7		**5.5**	**0.57J**	<1.8	<1.8	<1.9	<1.8	<1.9	**5.3**
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<1.7		**2.4**	<0.43	<1.8	<1.8	<1.9	<1.8	<1.9	<1.7
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na	**3.2**		**2.4**	**140**	<1.8	<1.8	<1.9	<1.8	<1.9	**43**
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20	**1.7**		**39**	**410**	**5.2**	**5.1**	**4.9**	**8.7**	**7.8**	**850**
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	**6.6**		**50**	**9.1**	**4.9**	<1.8	**4.8**	**3.0**	**17.0**	**510.0**
Total of PFAS6 Compounds	na	20	20	**15.4**		**163**	**765**	**10.1**	**5.1**	**9.7**	**11.7**	**27.9**	**1422.0**
Total Measured PFAS	na	na	na	**23.3**		**335**	**1335**	**10.1**	**5.1**	**9.7**	**11.7**	**37.3**	**1592.0**
% PFAS6 Compounds vs. Total PFAS	na	na	na	66.1%		48.6%	57.3%	100.0%	100.0%	100.0%	100.0%	74.8%	89.3%

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			*Field Quality Control Samples (continued)*	FIELD BLANK											
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)		2/17/2020 (Kanarek)	5/6/2020 (Woodman)	6/3/2020 (Kanarek)	6/11/2020 (Kenney)	7/20/2020 (Kenney)	8/26/2020 (Kenney-XA)	8/26/2020 (Kenney-QO)	8/26/2020 (Kenney-IB)	8/26/2020 (Kenney-UE)	9/29/2020 (Kenney)	9/29/2020 (Kenny)	9/29/2020 (Kenny)
Lab Sample ID					GW1263637	PW1311848	410-3640-2	410-4374-2EB	410-8658-1	410-12284-7	410-12322-7	410-12324-7	410-12326-7	410-15874-22	410-15877-1	410-15877-23
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na		<0.42	<0.45	<1.8	<1.9	<1.9	<2.1	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<2,1	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<2,1	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<2,1	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<2,1	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na		<0.42	<0.45	<1.8	<1.9	<1.9	<2,1	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<2,1	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<2.1	<2.0	<2.0	<1.9	<1.8	<1.8	<1.8
Total of PFAS6 Compounds	na	20	20		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Measured PFAS	na	na	na		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
% PFAS6 Compounds vs. Total PFAS	na	na	na		na	na	na	na	na	na	na	na	na	na	na	na

Table 1
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID			*Field Quality Control Samples (concluded)*	TRIP BLANK											
Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)		2/11/2020	5/6/2020	6/4/2020	6/11/2020	8/4/2020	8/26/2020 (XA)	8/26/2020 (QO)	8/26/2020 (IB)	8/26/2020 (UE)	8/26/2020	9/29/2020	9/29/2020
Lab Sample ID					PW1263644	PW1311852	410-3640-13	410-4374-1TB	410-10038-19	410-12284-8	410-12322-8	410-12324-8	410-12326-8	410-12323-14	410-15874-23	410-15877-22
Perfluorohexanoic Acid (PFHxA) [6]	307-24-4	na	na		<0.46	<0.46	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.8	<1.7
Perfluoroheptanoic Acid (PFHpA) [7]	375-85-9	20	20		<0.46	<0.46	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.8	<1.7
Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20		<0.46	<0.46	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.8	<1.7
Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20		<0.46	<0.46	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.8	<1.7
Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20		<0.46	<0.46	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.8	<1.7
Perfluorobutanesulfonic Acid (PFBS) [4S]	375-73-5	na	na		<0.46	<0.46	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.8	<1.7
Perfluorohexanesulfonic Acid (PFHxS) [6S]	355-46-4	20	20		<0.46	<0.46	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.8	<1.7
Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20		<0.46	<0.46	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9	<1.8	<1.7
Total of PFAS6 Compounds	na	20	20		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Measured PFAS	na	na	na		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
% PFAS6 Compounds vs. Total PFAS	na	na	na		na	na	na	na	na	na	na	na	na	na	na	na

Table 1
Summary of Per- and Polyfluoroalkyl Substances in Drinking Water - Madequecham Valley Road Residences
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Definitions:

[4] = Number of fluorinated carbon chains for perfluorinated carboxylic acids

[4S] = Numbe Sample Date

ng/L = nanogram per liter, equivalent to parts per trillion

CAS No. = Chemical Abstract Service registry number

na = not applicable/standard has not been established

-- = Analysis not conducted

MVR = Madequecham Valley Road

ns = sample not collected

PFAS = per- and polyfluoroalkyl substances

ND = Not detected

J = Estimated value is greater than or equal to the Method Detection Limit and less than the Limit of Quantitation

DUP = duplicate sample

PFAS6 = Massachusetts Department of Environmental Protection regulates six PFAS compounds including PFHpA, PFOA, PFNA, PFDA, PFHxS, and PFOS.

Notes:

Bold font indicates compound detected above the laboratory reporting limit.

Gray shading indicates detected concentration meets or exceeds GW-1.

Table 2
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water
West Side Residences Nobadeer Way Study Group
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

					Sample Location ID	Property AY (3 Evergreen)	Property BA (0 Monohansett)	Property BE (51 Weweeder)	Property BJ (21 Monohansett)	Property BM (78 Skyline)	Property CX (75 Pochick)	Property DM (3 Webster)	Property FC (7 Nobadeer)	Property FQ (1 Monohansett)	Property GV (11 Adams)
	Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)		9/30/2020	7/22/2020	7/22/2020	7/20/2020	8/26/2020	7/20/2020	7/22/2020	9/30/2020	7/21/2020	7/21/2020
	Lab Sample ID					410-15879-4	410-8672-11	410-8672-14	410-8658-18	410-12305-8	410-8658-16	410-8672-12	410-15879-12	410-8672-4	410-8672-5
Carboxylic Acids (ng/L)	**Perfluoroheptanoic Acid (PFHpA) [7]**	375-85-9	20	20		**3.0**	<1.9	<1.8	<1.7	<1.8	<1.8	<1.8	<1.7	<1.9	<1.8
	Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20		**7.5**	<1.9	<1.8	<1.7	<1.8	<1.8	**4.0**	<1.7	<1.9	<1.8
	Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20		**2.3**	<1.9	<1.8	<1.7	<1.8	<1.8	<1.8	<1.7	<1.9	<1.8
	Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20		<1.7	<1.9	<1.8	<1.7	<1.8	<1.8	<1.8	<1.7	<1.9	<1.8
Sulfonates / Sulfonic Acids (ng/L)	**Perfluorohexanesulfonic Acid (PFHxS) [6S]**	355-46-4	20	20		**32**	<1.9	<1.8	<1.7	<1.8	<1.8	<1.8	<1.7	<1.9	<1.8
	Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20		**23**	<1.9	<1.8	<1.7	<1.8	<1.8	<1.8	<1.7	<1.9	<1.8
Parameter Calculations	**Total of PFAS6 Compounds**	na	20	20		**68**	ND	ND	ND	ND	ND	**4.0**	ND	ND	ND
	Total Measured PFAS	na	na	na		**75**	ND	ND	ND	**12**	ND	**6.3**	ND	ND	ND
	% PFAS6 Compounds vs. Total PFAS	na	na	na		90.4%	na	na	na	0.0%	na	63.5%	na	na	na

Table 2
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water
West Side Residences Nobadeer Way Study Group
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

				Sample Location ID	Property HF (77 Skyline)		Property HM (1 Webster)	Property HZ (25 Monohansett)	Property IE (50 Okorwaw)	Property JI (42 Monohansett)	Property KB (6 Nobadeer)	Property KX (10 Nobadeer)	Property LG (1 Evergreen)	Property ML (47 Okorwaw)	Property MG (65 Nobadeer)
	Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	8/26/2020	9/30/2020	7/22/2020	7/20/2020	7/21/2020	8/26/2020	9/30/2020	9/30/2020	8/4/2020	7/22/2020	8/4/2020
	Lab Sample ID				410-12305-13	410-15872-3	410-8672-8	410-8658-19	410-8672-3	410-12305-7	410-15879-6	410-15879-14	410-10038-18	410-8672-15	410-10038-12
Carboxylic Acids (ng/L)	**Perfluoroheptanoic Acid (PFHpA) [7]**	375-85-9	20	20	**13**	**17**	<1.8	**2.6**	**1.9**	**14**	<1.7	<1.7	**2.0**	<1.8	<1.8
	Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**3**	**3.5**	**3.9**	**9.7**	**5.7**	**25**	**2.5**	**3.0**	**6.0**	<1.8	<1.8
	Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	<1.9	<1.7	<1.8	<1.8	<1.9	**2.1**	<1.7	<1.7	<1.8	<1.8	<1.8
	Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<1.9	<1.7	<1.8	<1.8	<1.9	<1.8 U	<1.7	<1.7	<1.8	<1.8	<1.8
Sulfonates / Sulfonic Acids (ng/L)	**Perfluorohexanesulfonic Acid (PFHxS) [6S]**	355-46-4	20	20	**3.4**	**5.4**	<1.8	<1.8	<1.9	**4.2**	**2.2**	**3.3**	**30**	<1.8	<1.8
	Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	<1.9	<1.7	<1.8	<1.8	<1.9	**11**	<1.7	**2.1**	**16**	<1.8	<1.8
Parameter Calculations	**Total of PFAS6 Compounds**	na	20	20	**19.4**	**25.9**	**3.9**	**12.3**	**7.6**	**56.3**	**4.7**	**8.4**	**54.0**	ND	ND
	Total Measured PFAS	na	na	na	**52.4**	**60.9**	**5.9**	**17.1**	**9.5**	**73.1**	**10.3**	**13.5**	**60.2**	ND	ND
	% PFAS6 Compounds vs. Total PFAS	na	na	na	37.0%	42.5%	66.1%	71.9%	80.0%	77.0%	45.6%	62.2%	89.7%	na	na

Table 2
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water
West Side Residences Nobadeer Way Study Group
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

	Sample Location ID				Property MQ (87A Skyline)	Property OC (51 Okorwaw)	Property OI (9 Nobadeer)	Property PN (4 Nobadeer)	Property PTA (49 Okorwaw)	Property PTB (49 Okorwaw)	Property QD (84 Skyline)	Property QK (2 Monohansett)	Property RA (71 Pochick)	Property RB (31 Monohansett)
	Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	7/20/2020	7/22/2020	9/30/2020	9/30/2020	7/22/2020	7/22/2020	9/30/2020	7/21/2020	7/22/2020	7/21/2020
	Lab Sample ID				410-8658-20	410-8672-13	410-15872-9	410-15879-10	410-8672-10	410-8672-9	410-15872-13	410-8672-1	410-8672-16	410-8672-2
Carboxylic Acids (ng/L)	**Perfluoroheptanoic Acid (PFHpA) [7]**	375-85-9	20	20	**6.9**	<1.8	<1.8	<1.7	<1.8	<1.8	<1.7	<1.9	<1.9	<1.8
	Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**20**	<1.8	**4.7**	**3.4**	<1.8	<1.8	**2.5**	<1.9	<1.9	**3.0**
	Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	<1.7	<1.8	<1.8	<1.7	<1.8	<1.8	<1.7	<1.9	<1.9	<1.8
	Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<1.7	<1.8	<1.8	<1.7	<1.8	<1.8	<1.7	<1.9	<1.9	<1.8
Sulfonates / Sulfonic Acids (ng/L)	**Perfluorohexanesulfonic Acid (PFHxS) [6S]**	355-46-4	20	20	**5.7**	<1.8	**1.9**	<1.7	<1.8	<1.8	**5.4**	<1.9	<1.9	<1.8
	Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	**3.9**	<1.8	**2.9**	**1.9**	<1.8	<1.8	<1.7	<1.9	<1.9	<1.8
Parameter Calculations	**Total of PFAS6 Compounds**	na	20	20	**36.5**	ND	**10**	**5**	ND	ND	**8**	ND	ND	**3.0**
	Total Measured PFAS	na	na	na	**47.5**	ND	**10**	**7**	ND	ND	**10**	ND	ND	**3.0**
	% PFAS6 Compounds vs. Total PFAS	na	na	na	76.8%	na	100.0%	71.6%	na	na	79.8%	na	na	100.0%

Table 2
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water
West Side Residences Nobadeer Way Study Group
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

				Sample Location ID	Property RY (78 Skyline)	Property RZ (73 Pochick)	Property SB (63 Nobadeer)	Property SL (90 Skyline)	Property TF (1 Nobadeer)	Property UL (11 Nobadeer)	Property VP (1A Monohansett)	Property WH (83 Skyline)	Property WJ (3 Nobadeer)	Property WU (12 Nobadeer)
	Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	8/26/2020	7/20/2020	8/4/2020	9/30/2020	8/4/2020	8/4/2020	7/22/2020	7/21/2020	9/30/2020	8/4/2020
	Lab Sample ID				410-12305-10	410-8658-17	410-10038-11	410-15872-5	410-10038-17	410-10038-16	410-8672-18	410-8672-6	410-15879-8	410-10038-15
Carboxylic Acids (ng/L)	**Perfluoroheptanoic Acid (PFHpA) [7]**	375-85-9	20	20	<1.7	<2.0	<1.8	<1.7	<1.8	**4.0**	<1.9	<1.9	<2.0	**2.6**
	Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	<1.7	**2.3**	<1.8	<1.7	**2.0**	**7.0**	<1.9	<1.9	**3.8**	**6.0**
	Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	<1.7	<2.0	<1.8	<1.7	<1.8	<1.8	<1.9	<1.9	<2.0	<1.8
	Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<1.7	<2.0	<1.8	<1.7	<1.8	<1.8	<1.9	<1.9	<2.0	<1.8
Sulfonates / Sulfonic Acids (ng/L)	**Perfluorohexanesulfonic Acid (PFHxS) [6S]**	355-46-4	20	20	**2.7**	<2.0	<1.8	<1.7	**8.7**	**5.9**	<1.9	<1.9	**2.9**	**6.4**
	Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	<1.7	**4.2**	<1.8	<1.7	<1.8	**5.9**	<1.9	<1.9	<2.0	**7.2**
Parameter Calculations	**Total of PFAS6 Compounds**	na	20	20	**2.7**	**6.5**	ND	ND	**10.7**	**22.8**	ND	ND	**7**	**22.2**
	Total Measured PFAS	na	na	na	**4.8**	**6.5**	ND	ND	**21.7**	**43.5**	ND	ND	**9**	**29.4**
	% PFAS6 Compounds vs. Total PFAS	na	na	na	56.3%	100.0%	na	na	49.3%	52.4%	na	na	76.1%	75.5%

Table 2
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water
West Side Residences Nobadeer Way Study Group
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

													BLIND DUPLICATES				
				Sample Location ID	Property XT (5 Nobadeer)	Property XY (8 Nobadeer)	Property YD (1 Daffodil)	Property YVA (39 Monohansett)	Property YVB (39 Monohansett)	Property ZW (8 Evergreen)		QA-01	QA-02	QA-03	QA-04	QA-07
	Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)	9/30/2020	9/30/2020	9/30/2020	8/4/2020	8/4/2020	9/30/2020		5/6/2020	6/4/2020	6/11/2020	8/4/2020	9/30/2020
	Lab Sample ID				410-15879-1	410-15872-7	410-15872-1	410-10038-13	410-10038-14	410-15872-15						
Carboxylic Acids (ng/L)	**Perfluoroheptanoic Acid (PFHpA) [7]**	375-85-9	20	20	<1.6	<1.7	**8.5**	**6.8**	<1.9	**15**	*Field Quality Control Samples*	**45**	<1.8	<1.8	<1.9	<1.8
	Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20	**3.0**	**3.1**	**21**	**19**	<1.9	**23**		**300**	<1.8	<1.8	<1.9	<1.8
	Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20	<1.6	<1.7	<1.7	<1.8	<1.9	<1.8		**0.57J**	<1.8	<1.8	<1.9	<1.8
	Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20	<1.6	<1.7	<1.7	<1.8	<1.9	<1.8		<0.43	<1.8	<1.8	<1.9	<1.8
Sulfonates / Sulfonic Acids (ng/L)	**Perfluorohexanesulfonic Acid (PFHxS) [6S]**	355-46-4	20	20	**2.0**	**1.9**	**3.1**	**5.6**	<1.9	**3.2**		**410**	**5.2**	**5.1**	**4.9**	<1.8
	Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20	<1.6	<1.7	**12**	**3.4**	<1.9	**3.8**		**9.1**	**4.9**	<1.8	**4.8**	<1.8
Parameter Calculations	**Total of PFAS6 Compounds**	na	20	20	**5.0**	**5.0**	**44.6**	**34.8**	ND	**45.0**		**765**	**10**	**5**	**10**	ND
	Total Measured PFAS	na	na	na	**11.3**	**8.1**	**51.0**	**45.8**	**11.0**	**56.0**		**1335**	**10**	**5**	**10**	ND
	% PFAS6 Compounds vs. Total PFAS	na	na	na	44.2%	61.7%	87.5%	76.0%	0.0%	80.4%		57.3%	100.0%	100.0%	100.0%	na

Table 2
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water
West Side Residences Nobadeer Way Study Group
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

			Sample Location ID		Field Quality Control Samples (continued)	FIELD BLANK								TRIP BLANK		
	Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)		2/17/2020 (Kanarek)	5/6/2020 (Woodman)	6/3/2020 (Kanarek)	6/11/2020 (Kenney)	7/20/2020 (Kenney)	8/26/2020 (Kenney)	9/30/2020 (Kenney)	9/30/2020 (Kenney)	2/11/2020	5/6/2020	6/4/2020
	Lab Sample ID															
Carboxylic Acids (ng/L)	**Perfluoroheptanoic Acid (PFHpA) [7]**	375-85-9	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<1.9	<1.7	<1.8	<0.46	<0.46	<1.9
	Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<1.9	<1.7	<1.8	<0.46	<0.46	<1.9
	Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<1.9	<1.7	<1.8	<0.46	<0.46	<1.9
	Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<1.9	<1.7	<1.8	<0.46	<0.46	<1.9
Sulfonates / Sulfonic Acids (ng/L)	**Perfluorohexanesulfonic Acid (PFHxS) [6S]**	355-46-4	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<1.9	<1.7	<1.8	<0.46	<0.46	<1.9
	Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20		<0.42	<0.45	<1.8	<1.9	<1.9	<1.9	<1.7	<1.8	<0.46	<0.46	<1.9
Parameter Calculations	**Total of PFAS6 Compounds**	na	20	20		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total Measured PFAS	na	na	na		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	% PFAS6 Compounds vs. Total PFAS	na	na	na		na	na	na	na	na	na	na	na	na	na	na

Table 2
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water
West Side Residences Nobadeer Way Study Group
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

						TRIP BLANK					
	Sample Location ID										
	Sample Date	CAS No.	DW (ng/L)	GW-1 (ng/L)		6/11/2020	7/27/2020	8/4/2020	8/26/2020	9/30/2020	9/30/2020
	Lab Sample ID										
Carboxylic Acids (ng/L)	**Perfluoroheptanoic Acid (PFHpA) [7]**	375-85-9	20	20		<1.9	<2.0	<1.9	<1.9	<1.7	<1.8
	Perfluoro-Octanoic Acid (PFOA) [8]	335-67-1	20	20		<1.9	<2.0	<1.9	<1.9	<1.7	<1.8
	Perfluorononanoic Acid (PFNA) [9]	375-95-1	20	20		<1.9	<2.0	<1.9	<1.9	<1.7	<1.8
	Perfluorodecanoic Acid (PFDA) [10]	335-76-2	20	20		<1.9	<2.0	<1.9	<1.9	<1.7	<1.8
Sulfonates / Sulfonic Acids (ng/L)	**Perfluorohexanesulfonic Acid (PFHxS) [6S]**	355-46-4	20	20		<1.9	<2.0	<1.9	<1.9	<1.7	<1.8
	Perfluorooctanesulfonic Acid (PFOS) [8S]	1763-23-1	20	20		<1.9	<2.0	<1.9	<1.9	<1.7	<1.8
Parameter Calculations	**Total of PFAS6 Compounds**	na	20	20		ND	ND	ND	ND	ND	ND
	Total Measured PFAS	na	na	na		ND	ND	ND	ND	ND	ND
	% PFAS6 Compounds vs. Total PFAS	na	na	na		na	na	na	na	na	na

Field Quality Control Samples (concluded)

Table 2
Summary of Per- and Polyfluoroalkyl Substances Detections in Drinking Water
West Side Residences Nobadeer Way Study Group
Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554
Release Tracking Number 4-28219

Definitions:

[4] = Number of fluorinated carbon chains for perfluorinated carboxylic acids

[4S] = Number of fluorinated carbon chains for perfluorinated sulfonates

ng/L = nanogram per liter, equivalent to parts per trillion

CAS No. = Chemical Abstract Service registry number

na = not applicable/standard has not been established

-- = Analysis not conducted

MVR = Madequecham Valley Road

PFAS = per- and polyfluoroalkyl substances

ND = Not detected

J = Estimated value is greater than or equal to the Method Detection Limit and less than the Limit of Quantitation

DUP = duplicate sample

PFAS6 = Massachusetts Department of Environmental Protection regulates six PFAS compounds including PFHpA, PFOA, PFNA, PFDA, PFHxS, and PFOS.

Notes:

Bold font indicates compound detected above the laboratory reporting limit.

Gray shading indicates detected concentration meets or exceeds GW-1.

ATTACHMENTS

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Raymond P. Conlon Trustee
PO Box 1057
Nantucket, MA 02554

9590 9402 5164 9122 0743 95

2. Article Number *(Transfer from service label)*

7019 1120 0001 2212 2717

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ ail Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

CERTIFIED MAIL

WESTON SOLUTIONS
an employee-owned company

Weston Solutions, Inc.
43 N. Main Street
Concord, NH 03301-4934

7019 1120 0001 2212 2533

UNITED STATES POSTAGE
PITNEY BOWES
02 1P $006.95⁰
0000682757 AUG 20 2020
MAILED FROM ZIP CODE 03301

Suzanne Parks
PO Box 2254
Nantucket, MA 02584

NIXIE 010 FE 1 0008/27/20
RETURN TO SENDER
NOT DELIVERABLE AS ADDRESSED
UNABLE TO FORWARD
BC: 03301493443 *1669-07039-27-22

TRUST – PERFORMANCE – PEOPLE

UTF

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Suzanne Parks
PO Box 2254
Nantucket, MA 02584

9590 9402 5164 9122 0741 11

2. Article Number *(Transfer from service label)*

7019 1120 0001 2212 2533

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

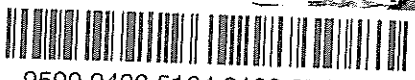
Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

John J. Daly
PO Box 2076
Nantucket, MA 02554



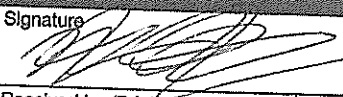
9590 9402 5164 9122 0743 88

2. Article Number (Transfer from service label)

7019 1120 0001 2212 2731

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X  ☑ Agent ☐ Addressee

B. Received by (Printed Name) Maurie Pineda

C. Date of Delivery 9/25/20

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

SEP 25 2020

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- Mail
- Mail Restricted Delivery
- (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bretworth & Kneneth Apthorp
PO Box 1301
Nantucket, MA 02554

9590 9402 5164 9122 0741 59

2. Article Number *(Transfer from service label)*

7019 1120 0001 2212 2571

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Apthorp ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

NANTUCKET, MA 02554 OCT 19 2020 USPS

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-15872-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
10/19/2020 2:53:19 PM

Elizabeth Zanar, Project Manager
(717)556-7290
elizabethmzanar@eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

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

* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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

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

Elizabeth M. Zanar

Elizabeth Zanar
Project Manager
10/19/2020 2:53:19 PM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 7
Client Sample Results 9
Surrogate Summary 14
QC Sample Results 15
QC Association Summary 17
Lab Chronicle 18
Certification Summary 20
Method Summary 21
Sample Summary 22
Chain of Custody 23
Receipt Checklists 25

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env | Project #: 410-15872-1

Project Location: Nantucket | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☐ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX 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?	☐ Yes ☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ 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?	☑ Yes ☐ 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"?	☑ Yes ☐ 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?	☑ Yes ☐ No ☑ Yes ☐ 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)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability 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?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory 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, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: Jeremy Beckley, designee for Elizabeth Zanar, Project Manager **Date:** 10/16/2020

Job ID: 410-15872-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-15872-1

Comments
No additional comments.

Receipt
The samples were received on 10/2/2020 10:26 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5º C.

Receipt Exceptions
Time on label is 12:20. The COC has 11:20.
SL-SPGT-093020 (410-15872-5)

Time on label is 12:21. The COC has 11:21.
SL-SPGT-093020-2 (410-15872-6)

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Client Sample ID: YD-SPGT-093020 — Lab Sample ID: 410-15872-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	6.4		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	8.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	21		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	3.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	12		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: HF-SPGT-093020 — Lab Sample ID: 410-15872-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	22		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	17		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	3.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	13		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	5.4		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: SL-SPGT-093020 — Lab Sample ID: 410-15872-5

No Detections.

Client Sample ID: XY-SPGT-093020 — Lab Sample ID: 410-15872-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	3.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	3.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	1.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: OI-SPGT-093020 — Lab Sample ID: 410-15872-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	4.7		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	1.9		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	2.9		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-093020-2 — Lab Sample ID: 410-15872-11

No Detections.

Client Sample ID: QA07-093020 — Lab Sample ID: 410-15872-12

No Detections.

Client Sample ID: QD-SPGT-093020 — Lab Sample ID: 410-15872-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	2.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	5.4		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: ZW-SPGT-093020 — Lab Sample ID: 410-15872-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	11		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	15		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	23		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	3.2		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	3.8		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Client Sample ID: TRIP BLANK-NP

Lab Sample ID: 410-15872-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: YD-SPGT-093020

Date Collected: 09/30/20 11:20
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-1
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**6.4**		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluoroheptanoic acid	**8.5**		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorooctanoic acid	**21**		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorohexanesulfonic acid	**3.1**		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorooctanesulfonic acid	**12**		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:47*	*1*
13C2 PFDA	*92*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:47*	*1*
13C2 PFHxA	*77*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:47*	*1*

Client Sample ID: HF-SPGT-093020

Date Collected: 09/30/20 11:45
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-3
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**22**		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluoroheptanoic acid	**17**		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorooctanoic acid	**3.5**		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorobutanesulfonic acid	**13**		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorohexanesulfonic acid	**5.4**		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:59*	*1*
13C2 PFDA	*90*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:59*	*1*
13C2 PFHxA	*83*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:59*	*1*

Client Sample ID: SL-SPGT-093020

Date Collected: 09/30/20 12:20
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-5

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:10*	*1*
13C2 PFDA	*86*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:10*	*1*
13C2 PFHxA	*83*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:10*	*1*

Client Sample ID: XY-SPGT-093020

Date Collected: 09/30/20 13:40
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-7

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorooctanoic acid	**3.1**		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorobutanesulfonic acid	**3.1**		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorohexanesulfonic acid	**1.9**		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:22*	*1*
13C2 PFDA	*92*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:22*	*1*
13C2 PFHxA	*86*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:22*	*1*

Client Sample ID: OI-SPGT-093020

Date Collected: 09/30/20 13:55
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-9

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorooctanoic acid	**4.7**		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorohexanesulfonic acid	**1.9**		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorooctanesulfonic acid	**2.9**		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:33*	*1*
13C2 PFDA	*88*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:33*	*1*
13C2 PFHxA	*81*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:33*	*1*

Client Sample ID: FB-093020-2

Date Collected: 09/30/20 00:00
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-11

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:45*	*1*
13C2 PFDA	*89*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:45*	*1*
13C2 PFHxA	*82*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:45*	*1*

Client Sample ID: QA07-093020

Lab Sample ID: 410-15872-12

Date Collected: 09/30/20 12:25

Matrix: Drinking Water

Date Received: 10/02/20 10:26

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:56*	*1*
13C2 PFDA	*81*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:56*	*1*
13C2 PFHxA	*80*		*70 - 130*	*10/06/20 16:37*	*10/11/20 22:56*	*1*

Client Sample ID: QD-SPGT-093020

Lab Sample ID: 410-15872-13

Date Collected: 09/30/20 15:50

Matrix: Drinking Water

Date Received: 10/02/20 10:26

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**2.0**		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorooctanoic acid	**2.5**		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorohexanesulfonic acid	**5.4**		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/11/20 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:08*	*1*
13C2 PFDA	*84*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:08*	*1*
13C2 PFHxA	*76*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:08*	*1*

Client Sample ID: ZW-SPGT-093020

Lab Sample ID: 410-15872-15

Date Collected: 09/30/20 16:15

Matrix: Drinking Water

Date Received: 10/02/20 10:26

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**11**		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluoroheptanoic acid	**15**		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorooctanoic acid	**23**		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorohexanesulfonic acid	**3.2**		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorooctanesulfonic acid	**3.8**		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:20*	*1*
13C2 PFDA	*87*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:20*	*1*
13C2 PFHxA	*73*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:20*	*1*

Client Sample ID: TRIP BLANK-NP

Lab Sample ID: 410-15872-17

Date Collected: 09/30/20 00:00

Matrix: Drinking Water

Date Received: 10/02/20 10:26

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/11/20 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:31*	*1*
13C2 PFDA	*90*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:31*	*1*
13C2 PFHxA	*74*		*70 - 130*	*10/06/20 16:37*	*10/11/20 23:31*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-15872-1	YD-SPGT-093020	93	92	77
410-15872-3	HF-SPGT-093020	89	90	83
410-15872-5	SL-SPGT-093020	91	86	83
410-15872-7	XY-SPGT-093020	96	92	86
410-15872-9	OI-SPGT-093020	91	88	81
410-15872-11	FB-093020-2	90	89	82
410-15872-12	QA07-093020	85	81	80
410-15872-13	QD-SPGT-093020	92	84	76
410-15872-15	ZW-SPGT-093020	95	87	73
410-15872-17	TRIP BLANK-NP	94	90	74
LCS 410-51450/2-A	Lab Control Sample	90	81	75
LCSD 410-51450/3-A	Lab Control Sample Dup	91	92	80
MB 410-51450/1-A	Method Blank	86	83	82

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-51450/1-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
NEtFOSAA	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
NMeFOSAA	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:01*	*1*
13C2 PFDA	*83*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:01*	*1*
13C2 PFHxA	*82*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:01*	*1*

Lab Sample ID: LCS 410-51450/2-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	18.5		ng/L		90	70 - 130
Perfluoroheptanoic acid	20.5	20.8		ng/L		102	70 - 130
Perfluorooctanoic acid	20.5	23.6		ng/L		115	70 - 130
Perfluorononanoic acid	20.5	19.4		ng/L		95	70 - 130
Perfluorodecanoic acid	20.5	21.3		ng/L		104	70 - 130
Perfluorotridecanoic acid	20.5	22.0		ng/L		107	70 - 130
Perfluorotetradecanoic acid	20.5	22.0		ng/L		108	70 - 130
Perfluorobutanesulfonic acid	18.1	18.1		ng/L		100	70 - 130
Perfluorohexanesulfonic acid	18.7	19.3		ng/L		103	70 - 130
Perfluorooctanesulfonic acid	19.0	19.4		ng/L		102	70 - 130
NEtFOSAA	20.5	22.3		ng/L		109	70 - 130
NMeFOSAA	20.5	23.3		ng/L		114	70 - 130
Perfluoroundecanoic acid	20.5	20.3		ng/L		99	70 - 130
Perfluorododecanoic acid	20.5	20.7		ng/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*90*		*70 - 130*
13C2 PFDA	*81*		*70 - 130*
13C2 PFHxA	*75*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-51450/3-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51450

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	19.5		ng/L		95	70 - 130	5	30
Perfluoroheptanoic acid			20.5	21.6		ng/L		105	70 - 130	4	30
Perfluorooctanoic acid			20.5	24.5		ng/L		120	70 - 130	4	30
Perfluorononanoic acid			20.5	21.9		ng/L		107	70 - 130	12	30
Perfluorodecanoic acid			20.5	22.8		ng/L		111	70 - 130	7	30
Perfluorotridecanoic acid			20.5	23.7		ng/L		116	70 - 130	7	30
Perfluorotetradecanoic acid			20.5	24.5		ng/L		120	70 - 130	11	30
Perfluorobutanesulfonic acid			18.1	16.8		ng/L		92	70 - 130	8	30
Perfluorohexanesulfonic acid			18.7	21.8		ng/L		117	70 - 130	12	30
Perfluorooctanesulfonic acid			19.0	20.7		ng/L		109	70 - 130	7	30
NEtFOSAA			20.5	22.7		ng/L		111	70 - 130	2	30
NMeFOSAA			20.5	23.7		ng/L		116	70 - 130	2	30
Perfluoroundecanoic acid			20.5	21.1		ng/L		103	70 - 130	4	30
Perfluorododecanoic acid			20.5	23.6		ng/L		115	70 - 130	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*91*		*70 - 130*
13C2 PFDA	*92*		*70 - 130*
13C2 PFHxA	*80*		*70 - 130*

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

LCMS

Prep Batch: 51450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15872-1	YD-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-3	HF-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-5	SL-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-7	XY-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-9	OI-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-11	FB-093020-2	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-12	QA07-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-13	QD-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-15	ZW-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15872-17	TRIP BLANK-NP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-51450/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-51450/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-51450/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 53051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15872-1	YD-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-3	HF-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-5	SL-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-7	XY-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-9	OI-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-11	FB-093020-2	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-12	QA07-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-13	QD-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-15	ZW-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15872-17	TRIP BLANK-NP	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
MB 410-51450/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
LCS 410-51450/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
LCSD 410-51450/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Client Sample ID: YD-SPGT-093020
Lab Sample ID: 410-15872-1
Date Collected: 09/30/20 11:20
Matrix: Drinking Water
Date Received: 10/02/20 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 21:47	PY4D	ELLE

Client Sample ID: HF-SPGT-093020
Lab Sample ID: 410-15872-3
Date Collected: 09/30/20 11:45
Matrix: Drinking Water
Date Received: 10/02/20 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 21:59	PY4D	ELLE

Client Sample ID: SL-SPGT-093020
Lab Sample ID: 410-15872-5
Date Collected: 09/30/20 12:20
Matrix: Drinking Water
Date Received: 10/02/20 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 22:10	PY4D	ELLE

Client Sample ID: XY-SPGT-093020
Lab Sample ID: 410-15872-7
Date Collected: 09/30/20 13:40
Matrix: Drinking Water
Date Received: 10/02/20 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 22:22	PY4D	ELLE

Client Sample ID: OI-SPGT-093020
Lab Sample ID: 410-15872-9
Date Collected: 09/30/20 13:55
Matrix: Drinking Water
Date Received: 10/02/20 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 22:33	PY4D	ELLE

Client Sample ID: FB-093020-2
Lab Sample ID: 410-15872-11
Date Collected: 09/30/20 00:00
Matrix: Drinking Water
Date Received: 10/02/20 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 22:45	PY4D	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Client Sample ID: QA07-093020
Date Collected: 09/30/20 12:25
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-12
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 22:56	PY4D	ELLE

Client Sample ID: QD-SPGT-093020
Date Collected: 09/30/20 15:50
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-13
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 23:08	PY4D	ELLE

Client Sample ID: ZW-SPGT-093020
Date Collected: 09/30/20 16:15
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-15
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 23:20	PY4D	ELLE

Client Sample ID: TRIP BLANK-NP
Date Collected: 09/30/20 00:00
Date Received: 10/02/20 10:26

Lab Sample ID: 410-15872-17
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/11/20 23:31	PY4D	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15872-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-15872-1	YD-SPGT-093020	Drinking Water	09/30/20 11:20	10/02/20 10:26	
410-15872-3	HF-SPGT-093020	Drinking Water	09/30/20 11:45	10/02/20 10:26	
410-15872-5	SL-SPGT-093020	Drinking Water	09/30/20 12:20	10/02/20 10:26	
410-15872-7	XY-SPGT-093020	Drinking Water	09/30/20 13:40	10/02/20 10:26	
410-15872-9	OI-SPGT-093020	Drinking Water	09/30/20 13:55	10/02/20 10:26	
410-15872-11	FB-093020-2	Drinking Water	09/30/20 00:00	10/02/20 10:26	
410-15872-12	QA07-093020	Drinking Water	09/30/20 12:25	10/02/20 10:26	
410-15872-13	QD-SPGT-093020	Drinking Water	09/30/20 15:50	10/02/20 10:26	
410-15872-15	ZW-SPGT-093020	Drinking Water	09/30/20 16:15	10/02/20 10:26	
410-15872-17	TRIP BLANK-NP	Drinking Water	09/30/20 00:00	10/02/20 10:26	

Chain of Custody Record

410-15872-01 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY	Lab PM: Zanar, Elizabeth I	COC No: 410-10047-3065.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: elizabethmzanar@eurofinsus.com	Page: Page 1 of 2
Company: Weston Solutions, Inc.			Job #:
Address: 43 North Main Street	Due Date Requested:		
City: Concord	TAT Requested (days): STANDARD		
State, Zip: NH, 03301			
Phone: 860 712 2684	PO #: 0102971		
Email: Matthew.Kenney@WestonSolutions.com	WO #:		
Project Name: Nantucket	Project #: 41001960		
Site: NANTUCKET	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
YD-SPGT-093020	9/30/20	1120	G	Drinking Wate				X		
YD-SPGT-093020-2		1121		Water						HOLD
HF-SPGT-093020		1145		Water				X		
HF-SPGT-093020-2		1146		Water						HOLD
SL-SPGT-093020		1120 ~~1220~~		Water				X		
SL-SPGT-093020-2		1121 ~~1221~~		Water						HOLD
XY-SPGT-093020		1340		Water				X		
XY-SPGT-093020-2		1341		Water						HOLD
OI-SPGT-093020		1355		Water				X		
OI-SPGT-093020-2		1356								HOLD
FB-093020-2								X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	10/1/20 1130	WESTON	SEALED COOLER	10/1/20 1130	—
2						
3				[signature]	10/2/20 1026	ETE

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 67359

Cooler Temperature(s) °C and Other Remarks: 0.5

Ver: 01/16/2019

[signature] [signature]

Chain of Custody Record

eurofins Environment Testing America

410-15872-02 Chain of Custody

Client Information	Sampler: M. KENNEY	Lab PM: Zanar, Elizabeth N	COC No: 410-10047-3065.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: elizabethmzanar@eurofinsus.com	Page: Page 2 of 2
Company: Weston Solutions, Inc.			Job #
Address: 43 North Main Street	Due Date Requested:		
City: Concord	TAT Requested (days): STANDARD		
State, Zip: NH, 03301			
Phone: 8607122684	PO #: 0102971		
Email: Matthew.Kenney@WestonSolutions.com	WO #:		
Project Name: Nantucket	Project #: 41001960		
Site: NANTUCKET	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N				
QA07-093020	9/30/20	1225	G	Drinking Wate				X		
QD-SPGT-093020		1550		Water				X		
QD-SPGT-093020-2		1551		Water						HOLD
ZW-SPGT-093020		1615		Water				X		
ZW-SPGT-093020-2		1616		Water						HOLD
TRIP BLANK - NP		—		Water				X		
				Water						
				Water						
				Water						

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10/1/20 1130	WESTON	SEALED COOLER	10/1/20 1130	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/2/20 1026	Company: ELE

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: 87359

Cooler Temperature(s) °C and Other Remarks: 0.5

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-15872-1

Login Number: 15872
List Number: 1
Creator: Colon Martinez, Jessenia C

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-15874-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
10/22/2020 4:27:16 PM

Elizabeth Zanar, Project Manager
(717)556-7290
elizabethmzanar@eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

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

* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

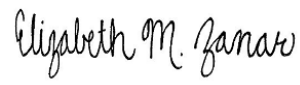
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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

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



Elizabeth Zanar
Project Manager
10/22/2020 4:27:16 PM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 7
Client Sample Results 9
Surrogate Summary 17
QC Sample Results 18
QC Association Summary 24
Lab Chronicle 26
Certification Summary 29
Method Summary 30
Sample Summary 31
Chain of Custody 32
Receipt Checklists 35

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env | Project #: 410-15874-1

Project Location: Nantucket | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX 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?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ 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?	☑ Yes ☐ 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"?	☑ Yes ☐ 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?	☑ Yes ☐ No ☑ Yes ☐ 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)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability 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?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory 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, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: Jeremy Beckley, designee for Elizabeth Zanar, Project Manager **Date:** 10/22/2020

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Job ID: 410-15874-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-15874-1

Comments
No additional comments.

Receipt
The samples were received on 10/2/2020 10:25 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7º C.

LCMS
Method 537 DW: The recovery for internal(s) and surrogate(s) in the following sample: VT-SPGT-092920 (410-15874-7) is outside QC acceptance limits. The following action was taken: The sample was re-extracted outside the required holding time and the recovery for the internal(s) and surrogate(s) was again outside QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Client Sample ID: QO-0920-EFF — Lab Sample ID: 410-15874-1

No Detections.

Client Sample ID: QO-0920-MID — Lab Sample ID: 410-15874-3

No Detections.

Client Sample ID: QO-0920-INF — Lab Sample ID: 410-15874-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	70		18		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	180		18		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	980		180		ng/L	100		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	2100		180		ng/L	100		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL	2000		180		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: VT-SPGT-092920 — Lab Sample ID: 410-15874-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	35	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	15		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	14		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroundecanoic acid	2.7	*3	1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	320		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	130		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid - DL	82		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL2	730		170		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: KH-0920-EFF — Lab Sample ID: 410-15874-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	2.0		1.9		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: KH-0920-MID — Lab Sample ID: 410-15874-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	4.8		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: KH-0920-INF — Lab Sample ID: 410-15874-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	67		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	5.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	43		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	170		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	81		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	530		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	650		170		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: QA06-092920 — Lab Sample ID: 410-15874-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	62		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	5.3		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	43		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	170		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	81		17		ng/L	10		EPA 537 Ver 1.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample ID: QA06-092920 (Continued) — Lab Sample ID: 410-15874-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid - DL	510		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	850		170		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: XA-0920-EFF — Lab Sample ID: 410-15874-16

No Detections.

Client Sample ID: XA-0920-MID — Lab Sample ID: 410-15874-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	3.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: XA-0920-INF — Lab Sample ID: 410-15874-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	8.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	2.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	6.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	9.3		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL	99		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	410		17		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-092920-2 — Lab Sample ID: 410-15874-22

No Detections.

Client Sample ID: TRIP BLANK - NP — Lab Sample ID: 410-15874-23

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: QO-0920-EFF

Date Collected: 09/29/20 13:20
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-1

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
NEtFOSAA	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
NMeFOSAA	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/13/20 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*84*		*70 - 130*	*10/05/20 08:32*	*10/13/20 11:21*	*1*
13C2 PFDA	*83*		*70 - 130*	*10/05/20 08:32*	*10/13/20 11:21*	*1*
13C2 PFHxA	*88*		*70 - 130*	*10/05/20 08:32*	*10/13/20 11:21*	*1*

Client Sample ID: QO-0920-MID

Date Collected: 09/29/20 13:30
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-3

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
NEtFOSAA	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
NMeFOSAA	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/05/20 08:32	10/13/20 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*10/05/20 08:32*	*10/13/20 11:39*	*1*
13C2 PFDA	*87*		*70 - 130*	*10/05/20 08:32*	*10/13/20 11:39*	*1*
13C2 PFHxA	*88*		*70 - 130*	*10/05/20 08:32*	*10/13/20 11:39*	*1*

Client Sample ID: QO-0920-INF

Date Collected: 09/29/20 13:40
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-5

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**70**		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
Perfluorononanoic acid	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
Perfluorodecanoic acid	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
Perfluorotridecanoic acid	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
Perfluorotetradecanoic acid	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
Perfluorobutanesulfonic acid	**180**		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
Perfluorooctanesulfonic acid	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
NEtFOSAA	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
NMeFOSAA	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
Perfluoroundecanoic acid	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10
Perfluorododecanoic acid	<18		18		ng/L		10/06/20 16:37	10/13/20 16:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*10/06/20 16:37*	*10/13/20 16:53*	*10*
13C2 PFDA	*102*		*70 - 130*	*10/06/20 16:37*	*10/13/20 16:53*	*10*
13C2 PFHxA	*91*		*70 - 130*	*10/06/20 16:37*	*10/13/20 16:53*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**980**		180		ng/L		10/06/20 16:37	10/13/20 17:05	100
Perfluorooctanoic acid	**2100**		180		ng/L		10/06/20 16:37	10/13/20 17:05	100
Perfluorohexanesulfonic acid	**2000**		180		ng/L		10/06/20 16:37	10/13/20 17:05	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:05*	*100*
13C2 PFDA	*95*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:05*	*100*
13C2 PFHxA	*91*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:05*	*100*

Client Sample ID: VT-SPGT-092920

Date Collected: 09/29/20 14:30
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-7

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid	**35**	***3**	1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
Perfluorotridecanoic acid	<1.7	*3	1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
Perfluorotetradecanoic acid	<1.7	*3	1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
Perfluorohexanesulfonic acid	**15**		1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
Perfluorooctanesulfonic acid	**14**		1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
Perfluoroundecanoic acid	**2.7**	***3**	1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1
Perfluorododecanoic acid	<1.7	*3	1.7		ng/L		10/06/20 16:37	10/12/20 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:06*	*1*
13C2 PFDA	*230*	**3 X*	*70 - 130*	*10/06/20 16:37*	*10/12/20 00:06*	*1*
13C2 PFHxA	*190*	**3 X*	*70 - 130*	*10/06/20 16:37*	*10/12/20 00:06*	*1*

Client Sample ID: VT-SPGT-092920

Date Collected: 09/29/20 14:30
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-7

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**320**		17		ng/L		10/06/20 16:37	10/13/20 17:16	10
Perfluorooctanoic acid	**130**		17		ng/L		10/06/20 16:37	10/13/20 17:16	10
Perfluorononanoic acid	**82**		17		ng/L		10/06/20 16:37	10/13/20 17:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:16*	*10*
13C2 PFDA	*105*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:16*	*10*
13C2 PFHxA	*109*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:16*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**730**		170		ng/L		10/06/20 16:37	10/15/20 01:58	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*10/06/20 16:37*	*10/15/20 01:58*	*100*
13C2 PFDA	*95*		*70 - 130*	*10/06/20 16:37*	*10/15/20 01:58*	*100*
13C2 PFHxA	*102*		*70 - 130*	*10/06/20 16:37*	*10/15/20 01:58*	*100*

Client Sample ID: KH-0920-EFF

Date Collected: 09/29/20 15:20
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-9

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluoroheptanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorooctanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorononanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorodecanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorotridecanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorotetradecanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorobutanesulfonic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorohexanesulfonic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorooctanesulfonic acid	**2.0**		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
NEtFOSAA	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
NMeFOSAA	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluoroundecanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1
Perfluorododecanoic acid	<1.9		1.9		ng/L		10/06/20 16:37	10/12/20 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:17*	*1*
13C2 PFDA	*85*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:17*	*1*
13C2 PFHxA	*81*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:17*	*1*

Client Sample ID: KH-0920-MID

Date Collected: 09/29/20 15:30
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-11

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1

Client Sample ID: KH-0920-MID

Date Collected: 09/29/20 15:30
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-11

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorooctanesulfonic acid	**4.8**		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*81*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:29*	*1*
13C2 PFDA	*82*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:29*	*1*
13C2 PFHxA	*80*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:29*	*1*

Client Sample ID: KH-0920-INF

Date Collected: 09/29/20 15:40
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-13

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	**67**		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
Perfluorononanoic acid	**5.2**		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
Perfluorobutanesulfonic acid	**43**		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:40*	*1*
13C2 PFDA	*87*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:40*	*1*
13C2 PFHxA	*76*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:40*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**170**		17		ng/L		10/06/20 16:37	10/13/20 17:39	10
Perfluorooctanoic acid	**81**		17		ng/L		10/06/20 16:37	10/13/20 17:39	10
Perfluorooctanesulfonic acid	**530**		17		ng/L		10/06/20 16:37	10/13/20 17:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*94*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:39*	*10*
13C2 PFDA	*94*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:39*	*10*
13C2 PFHxA	*94*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:39*	*10*

Client Sample ID: KH-0920-INF

Date Collected: 09/29/20 15:40
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-13

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	650		170		ng/L		10/06/20 16:37	10/15/20 02:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*70*		*70 - 130*	*10/06/20 16:37*	*10/15/20 02:09*	*100*
13C2 PFDA	*84*		*70 - 130*	*10/06/20 16:37*	*10/15/20 02:09*	*100*
13C2 PFHxA	*82*		*70 - 130*	*10/06/20 16:37*	*10/15/20 02:09*	*100*

Client Sample ID: QA06-092920

Date Collected: 09/29/20 15:45
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-15

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	62		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
Perfluorononanoic acid	5.3		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
Perfluorobutanesulfonic acid	43		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*84*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:52*	*1*
13C2 PFDA	*82*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:52*	*1*
13C2 PFHxA	*77*		*70 - 130*	*10/06/20 16:37*	*10/12/20 00:52*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	170		17		ng/L		10/06/20 16:37	10/13/20 17:51	10
Perfluorooctanoic acid	81		17		ng/L		10/06/20 16:37	10/13/20 17:51	10
Perfluorooctanesulfonic acid	510		17		ng/L		10/06/20 16:37	10/13/20 17:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*81*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:51*	*10*
13C2 PFDA	*87*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:51*	*10*
13C2 PFHxA	*88*		*70 - 130*	*10/06/20 16:37*	*10/13/20 17:51*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	850		170		ng/L		10/06/20 16:37	10/15/20 02:21	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*10/06/20 16:37*	*10/15/20 02:21*	*100*
13C2 PFDA	*101*		*70 - 130*	*10/06/20 16:37*	*10/15/20 02:21*	*100*
13C2 PFHxA	*101*		*70 - 130*	*10/06/20 16:37*	*10/15/20 02:21*	*100*

Client Sample ID: XA-0920-EFF

Date Collected: 09/29/20 16:10
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-16

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:03*	*1*
13C2 PFDA	*88*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:03*	*1*
13C2 PFHxA	*81*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:03*	*1*

Client Sample ID: XA-0920-MID

Date Collected: 09/29/20 16:20
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-18

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorooctanesulfonic acid	**3.2**		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:15*	*1*
13C2 PFDA	*92*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:15*	*1*
13C2 PFHxA	*81*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:15*	*1*

Client Sample ID: XA-0920-INF

Date Collected: 09/29/20 16:30
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-20

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**8.5**		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluoroheptanoic acid	**2.9**		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluorooctanoic acid	**6.0**		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluorobutanesulfonic acid	**9.3**		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:37	10/12/20 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:26*	*1*
13C2 PFDA	*84*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:26*	*1*
13C2 PFHxA	*77*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:26*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**99**		17		ng/L		10/06/20 16:37	10/13/20 18:03	10
Perfluorooctanesulfonic acid	**410**		17		ng/L		10/06/20 16:37	10/13/20 18:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*81*		*70 - 130*	*10/06/20 16:37*	*10/13/20 18:03*	*10*
13C2 PFDA	*90*		*70 - 130*	*10/06/20 16:37*	*10/13/20 18:03*	*10*
13C2 PFHxA	*84*		*70 - 130*	*10/06/20 16:37*	*10/13/20 18:03*	*10*

Client Sample ID: FB-092920-2

Date Collected: 09/29/20 16:45
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-22

Matrix: Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:37	10/12/20 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:38*	*1*

Client Sample ID: FB-092920-2

Lab Sample ID: 410-15874-22

Date Collected: 09/29/20 16:45

Matrix: Water

Date Received: 10/02/20 10:25

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*84*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:38*	*1*
13C2 PFHxA	*80*		*70 - 130*	*10/06/20 16:37*	*10/12/20 01:38*	*1*

Client Sample ID: TRIP BLANK - NP

Lab Sample ID: 410-15874-23

Date Collected: 09/29/20 00:00

Matrix: Drinking Water

Date Received: 10/02/20 10:25

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:35*	*1*
13C2 PFDA	*92*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:35*	*1*
13C2 PFHxA	*72*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:35*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-15874-1	QO-0920-EFF	84	83	88
410-15874-3	QO-0920-MID	86	87	88
410-15874-5	QO-0920-INF	85	102	91
410-15874-5 - DL	QO-0920-INF	91	95	91
410-15874-7	VT-SPGT-092920	91	230 *3 X	190 *3 X
410-15874-7 - DL	VT-SPGT-092920	93	105	109
410-15874-7 - DL2	VT-SPGT-092920	89	95	102
410-15874-9	KH-0920-EFF	88	85	81
410-15874-11	KH-0920-MID	81	82	80
410-15874-13	KH-0920-INF	92	87	76
410-15874-13 - DL	KH-0920-INF	94	94	94
410-15874-13 - DL2	KH-0920-INF	70	84	82
410-15874-15	QA06-092920	84	82	77
410-15874-15 - DL	QA06-092920	81	87	88
410-15874-15 - DL2	QA06-092920	95	101	101
410-15874-16	XA-0920-EFF	86	88	81
410-15874-18	XA-0920-MID	88	92	81
410-15874-20	XA-0920-INF	92	84	77
410-15874-20 - DL	XA-0920-INF	81	90	84
410-15874-23	TRIP BLANK - NP	88	92	72
LCS 410-50773/2-A	Lab Control Sample	92	92	91
LCS 410-51450/2-A	Lab Control Sample	90	81	75
LCS 410-51468/2-A	Lab Control Sample	87	88	72
LCSD 410-50773/3-A	Lab Control Sample Dup	92	91	93
LCSD 410-51450/3-A	Lab Control Sample Dup	91	92	80
LCSD 410-51468/3-A	Lab Control Sample Dup	90	87	75
LLCS 410-51450/4-A	Lab Control Sample	90	86	76
LLCS 410-51468/4-A	Lab Control Sample	95	89	76
MB 410-50773/1-A	Method Blank	90	90	95
MB 410-51450/1-A	Method Blank	86	83	82
MB 410-51468/1-A	Method Blank	95	85	77

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-15874-22	FB-092920-2	87	84	80

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-50773/1-A
Matrix: Drinking Water
Analysis Batch: 51472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
NEtFOSAA	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
NMeFOSAA	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/05/20 08:32	10/06/20 21:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*10/05/20 08:32*	*10/06/20 21:23*	*1*
13C2 PFDA	*90*		*70 - 130*	*10/05/20 08:32*	*10/06/20 21:23*	*1*
13C2 PFHxA	*95*		*70 - 130*	*10/05/20 08:32*	*10/06/20 21:23*	*1*

Lab Sample ID: LCS 410-50773/2-A
Matrix: Drinking Water
Analysis Batch: 51472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	21.7		ng/L		106	70 - 130
Perfluoroheptanoic acid	20.5	22.1		ng/L		108	70 - 130
Perfluorooctanoic acid	20.5	23.2		ng/L		113	70 - 130
Perfluorononanoic acid	20.5	22.1		ng/L		108	70 - 130
Perfluorodecanoic acid	20.5	22.7		ng/L		111	70 - 130
Perfluorotridecanoic acid	20.5	24.6		ng/L		120	70 - 130
Perfluorotetradecanoic acid	20.5	25.0		ng/L		122	70 - 130
Perfluorobutanesulfonic acid	18.1	18.6		ng/L		103	70 - 130
Perfluorohexanesulfonic acid	18.7	21.1		ng/L		113	70 - 130
Perfluorooctanesulfonic acid	19.0	21.6		ng/L		114	70 - 130
NEtFOSAA	20.5	22.5		ng/L		110	70 - 130
NMeFOSAA	20.5	22.5		ng/L		110	70 - 130
Perfluoroundecanoic acid	20.5	22.5		ng/L		110	70 - 130
Perfluorododecanoic acid	20.5	21.5		ng/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFDA	*92*		*70 - 130*
13C2 PFHxA	*91*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-50773/3-A
Matrix: Drinking Water
Analysis Batch: 51472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50773

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	21.9		ng/L		107	70 - 130	1	30
Perfluoroheptanoic acid			20.5	22.0		ng/L		107	70 - 130	0	30
Perfluorooctanoic acid			20.5	22.5		ng/L		110	70 - 130	3	30
Perfluorononanoic acid			20.5	21.8		ng/L		106	70 - 130	2	30
Perfluorodecanoic acid			20.5	22.6		ng/L		110	70 - 130	1	30
Perfluorotridecanoic acid			20.5	24.3		ng/L		119	70 - 130	1	30
Perfluorotetradecanoic acid			20.5	24.8		ng/L		121	70 - 130	1	30
Perfluorobutanesulfonic acid			18.1	19.6		ng/L		108	70 - 130	5	30
Perfluorohexanesulfonic acid			18.7	20.8		ng/L		111	70 - 130	2	30
Perfluorooctanesulfonic acid			19.0	21.3		ng/L		112	70 - 130	1	30
NEtFOSAA			20.5	21.9		ng/L		107	70 - 130	3	30
NMeFOSAA			20.5	21.9		ng/L		107	70 - 130	3	30
Perfluoroundecanoic acid			20.5	22.8		ng/L		112	70 - 130	2	30
Perfluorododecanoic acid			20.5	21.8		ng/L		106	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFDA	*91*		*70 - 130*
13C2 PFHxA	*93*		*70 - 130*

Lab Sample ID: MB 410-51450/1-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
NEtFOSAA	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
NMeFOSAA	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/06/20 16:37	10/11/20 21:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:01*	*1*
13C2 PFDA	*83*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:01*	*1*
13C2 PFHxA	*82*		*70 - 130*	*10/06/20 16:37*	*10/11/20 21:01*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-51450/2-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51450

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	18.5		ng/L		90	70 - 130		
Perfluoroheptanoic acid			20.5	20.8		ng/L		102	70 - 130		
Perfluorooctanoic acid			20.5	23.6		ng/L		115	70 - 130		
Perfluorononanoic acid			20.5	19.4		ng/L		95	70 - 130		
Perfluorodecanoic acid			20.5	21.3		ng/L		104	70 - 130		
Perfluorotridecanoic acid			20.5	22.0		ng/L		107	70 - 130		
Perfluorotetradecanoic acid			20.5	22.0		ng/L		108	70 - 130		
Perfluorobutanesulfonic acid			18.1	18.1		ng/L		100	70 - 130		
Perfluorohexanesulfonic acid			18.7	19.3		ng/L		103	70 - 130		
Perfluorooctanesulfonic acid			19.0	19.4		ng/L		102	70 - 130		
NEtFOSAA			20.5	22.3		ng/L		109	70 - 130		
NMeFOSAA			20.5	23.3		ng/L		114	70 - 130		
Perfluoroundecanoic acid			20.5	20.3		ng/L		99	70 - 130		
Perfluorododecanoic acid			20.5	20.7		ng/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*90*		*70 - 130*
13C2 PFDA	*81*		*70 - 130*
13C2 PFHxA	*75*		*70 - 130*

Lab Sample ID: LCSD 410-51450/3-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51450

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	19.5		ng/L		95	70 - 130	5	30
Perfluoroheptanoic acid			20.5	21.6		ng/L		105	70 - 130	4	30
Perfluorooctanoic acid			20.5	24.5		ng/L		120	70 - 130	4	30
Perfluorononanoic acid			20.5	21.9		ng/L		107	70 - 130	12	30
Perfluorodecanoic acid			20.5	22.8		ng/L		111	70 - 130	7	30
Perfluorotridecanoic acid			20.5	23.7		ng/L		116	70 - 130	7	30
Perfluorotetradecanoic acid			20.5	24.5		ng/L		120	70 - 130	11	30
Perfluorobutanesulfonic acid			18.1	16.8		ng/L		92	70 - 130	8	30
Perfluorohexanesulfonic acid			18.7	21.8		ng/L		117	70 - 130	12	30
Perfluorooctanesulfonic acid			19.0	20.7		ng/L		109	70 - 130	7	30
NEtFOSAA			20.5	22.7		ng/L		111	70 - 130	2	30
NMeFOSAA			20.5	23.7		ng/L		116	70 - 130	2	30
Perfluoroundecanoic acid			20.5	21.1		ng/L		103	70 - 130	4	30
Perfluorododecanoic acid			20.5	23.6		ng/L		115	70 - 130	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*91*		*70 - 130*
13C2 PFDA	*92*		*70 - 130*
13C2 PFHxA	*80*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LLCS 410-51450/4-A
Matrix: Drinking Water
Analysis Batch: 53805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51450

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	1.92	2.02		ng/L		105	50 - 150
Perfluoroheptanoic acid	1.92	2.17		ng/L		113	50 - 150
Perfluorooctanoic acid	1.92	2.49		ng/L		129	50 - 150
Perfluorononanoic acid	1.92	2.19		ng/L		114	50 - 150
Perfluorodecanoic acid	1.92	2.27		ng/L		118	50 - 150
Perfluorotridecanoic acid	1.92	2.41		ng/L		125	50 - 150
Perfluorotetradecanoic acid	1.92	2.35		ng/L		122	50 - 150
Perfluorobutanesulfonic acid	1.70	2.09		ng/L		123	50 - 150
Perfluorohexanesulfonic acid	1.75	2.48		ng/L		142	50 - 150
Perfluorooctanesulfonic acid	1.78	2.53		ng/L		143	50 - 150
NEtFOSAA	1.92	2.49		ng/L		130	50 - 150
NMeFOSAA	1.92	2.53		ng/L		132	50 - 150
Perfluoroundecanoic acid	1.92	2.06		ng/L		108	50 - 150
Perfluorododecanoic acid	1.92	2.17		ng/L		113	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
d5-NEtFOSAA	*90*		*70 - 130*
13C2 PFDA	*86*		*70 - 130*
13C2 PFHxA	*76*		*70 - 130*

Lab Sample ID: MB 410-51468/1-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
NEtFOSAA	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
NMeFOSAA	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*10/06/20 16:59*	*10/12/20 06:49*	*1*
13C2 PFDA	*85*		*70 - 130*	*10/06/20 16:59*	*10/12/20 06:49*	*1*
13C2 PFHxA	*77*		*70 - 130*	*10/06/20 16:59*	*10/12/20 06:49*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-51468/2-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51468

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			80.0	66.1		ng/L		83	70 - 130		
Perfluoroheptanoic acid			80.0	77.7		ng/L		97	70 - 130		
Perfluorooctanoic acid			80.0	89.3	E	ng/L		112	70 - 130		
Perfluorononanoic acid			80.0	76.7		ng/L		96	70 - 130		
Perfluorodecanoic acid			80.0	78.8		ng/L		99	70 - 130		
Perfluorotridecanoic acid			80.0	93.9	E	ng/L		117	70 - 130		
Perfluorotetradecanoic acid			80.0	85.7	E	ng/L		107	70 - 130		
Perfluorobutanesulfonic acid			70.8	61.4		ng/L		87	70 - 130		
Perfluorohexanesulfonic acid			73.0	81.7	E	ng/L		112	70 - 130		
Perfluorooctanesulfonic acid			74.0	76.3	E	ng/L		103	70 - 130		
NEtFOSAA			80.0	83.6	E	ng/L		104	70 - 130		
NMeFOSAA			80.0	85.3	E	ng/L		107	70 - 130		
Perfluoroundecanoic acid			80.0	78.9		ng/L		99	70 - 130		
Perfluorododecanoic acid			80.0	85.2	E	ng/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*87*		*70 - 130*
13C2 PFDA	*88*		*70 - 130*
13C2 PFHxA	*72*		*70 - 130*

Lab Sample ID: LCSD 410-51468/3-A
Matrix: Drinking Water
Analysis Batch: 53805

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51468

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	68.1		ng/L		85	70 - 130	3	30
Perfluoroheptanoic acid			80.0	71.9		ng/L		90	70 - 130	8	30
Perfluorooctanoic acid			80.0	84.7	E	ng/L		106	70 - 130	5	30
Perfluorononanoic acid			80.0	77.6		ng/L		97	70 - 130	1	30
Perfluorodecanoic acid			80.0	76.8		ng/L		96	70 - 130	3	30
Perfluorotridecanoic acid			80.0	81.9	E	ng/L		102	70 - 130	14	30
Perfluorotetradecanoic acid			80.0	84.6	E	ng/L		106	70 - 130	1	30
Perfluorobutanesulfonic acid			70.8	63.6		ng/L		90	70 - 130	3	30
Perfluorohexanesulfonic acid			73.0	82.9	E	ng/L		114	70 - 130	1	30
Perfluorooctanesulfonic acid			74.0	83.5	E	ng/L		113	70 - 130	9	30
NEtFOSAA			80.0	92.4	E	ng/L		116	70 - 130	10	30
NMeFOSAA			80.0	91.1	E	ng/L		114	70 - 130	7	30
Perfluoroundecanoic acid			80.0	74.3		ng/L		93	70 - 130	6	30
Perfluorododecanoic acid			80.0	75.9		ng/L		95	70 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*90*		*70 - 130*
13C2 PFDA	*87*		*70 - 130*
13C2 PFHxA	*75*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LLCS 410-51468/4-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51468

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	1.92	2.14		ng/L		112	50 - 150
Perfluoroheptanoic acid	1.92	2.41		ng/L		126	50 - 150
Perfluorooctanoic acid	1.92	2.74		ng/L		143	50 - 150
Perfluorononanoic acid	1.92	2.30		ng/L		120	50 - 150
Perfluorodecanoic acid	1.92	2.46		ng/L		128	50 - 150
Perfluorotridecanoic acid	1.92	2.40		ng/L		125	50 - 150
Perfluorotetradecanoic acid	1.92	2.57		ng/L		134	50 - 150
Perfluorobutanesulfonic acid	1.70	1.93	J	ng/L		113	50 - 150
Perfluorohexanesulfonic acid	1.75	2.40		ng/L		137	50 - 150
Perfluorooctanesulfonic acid	1.78	2.39		ng/L		135	50 - 150
NEtFOSAA	1.92	2.69		ng/L		140	50 - 150
NMeFOSAA	1.92	2.42		ng/L		126	50 - 150
Perfluoroundecanoic acid	1.92	2.30		ng/L		120	50 - 150
Perfluorododecanoic acid	1.92	2.36		ng/L		123	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
d5-NEtFOSAA	*95*		*70 - 130*
13C2 PFDA	*89*		*70 - 130*
13C2 PFHxA	*76*		*70 - 130*

LCMS

Prep Batch: 50773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-1	QO-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-3	QO-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-50773/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-50773/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-50773/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Prep Batch: 51450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-5	QO-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-5 - DL	QO-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-7	VT-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-7 - DL2	VT-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-7 - DL	VT-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-9	KH-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-11	KH-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-13 - DL2	KH-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-13	KH-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-13 - DL	KH-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-15	QA06-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-15 - DL	QA06-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-15 - DL2	QA06-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-16	XA-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-18	XA-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-20 - DL	XA-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-20	XA-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15874-22	FB-092920-2	Total/NA	Water	EPA 537 Ver 1.1	
MB 410-51450/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-51450/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-51450/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LLCS 410-51450/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Prep Batch: 51468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-23	TRIP BLANK - NP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-51468/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-51468/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-51468/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LLCS 410-51468/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 51472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-50773/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	50773
LCS 410-50773/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	50773
LCSD 410-50773/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	50773

Analysis Batch: 53051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-7	VT-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-9	KH-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-11	KH-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-13	KH-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450

LCMS (Continued)

Analysis Batch: 53051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-15	QA06-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-16	XA-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-18	XA-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-20	XA-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-22	FB-092920-2	Total/NA	Water	EPA 537 Ver 1.1	51450
410-15874-23	TRIP BLANK - NP	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468
MB 410-51450/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
MB 410-51468/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468
LCS 410-51450/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
LCS 410-51468/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468
LCSD 410-51450/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
LLCS 410-51468/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468

Analysis Batch: 53667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-1	QO-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50773
410-15874-3	QO-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	50773

Analysis Batch: 53805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-5	QO-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-5 - DL	QO-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-7 - DL	VT-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-13 - DL	KH-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-15 - DL	QA06-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-20 - DL	XA-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
LCSD 410-51468/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468
LLCS 410-51450/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450

Prep Batch: 54390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-7 - RE	VT-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-54390/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-54390/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-54390/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 54449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-7 - DL2	VT-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-13 - DL2	KH-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450
410-15874-15 - DL2	QA06-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	51450

Analysis Batch: 55022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15874-7 - RE	VT-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	54390
MB 410-54390/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	54390
LCS 410-54390/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	54390
LCSD 410-54390/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	54390

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Client Sample ID: QO-0920-EFF
Date Collected: 09/29/20 13:20
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50773	10/05/20 08:32	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53667	10/13/20 11:21	Y6ZN	ELLE

Client Sample ID: QO-0920-MID
Date Collected: 09/29/20 13:30
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-3
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50773	10/05/20 08:32	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53667	10/13/20 11:39	Y6ZN	ELLE

Client Sample ID: QO-0920-INF
Date Collected: 09/29/20 13:40
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-5
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		10	53805	10/13/20 16:53	PY4D	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	100	53805	10/13/20 17:05	PY4D	ELLE

Client Sample ID: VT-SPGT-092920
Date Collected: 09/29/20 14:30
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-7
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 00:06	PY4D	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	53805	10/13/20 17:16	PY4D	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	54449	10/15/20 01:58	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	RE		54390	10/14/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	55022	10/16/20 06:10	VK3G	ELLE

Client Sample ID: KH-0920-EFF
Date Collected: 09/29/20 15:20
Date Received: 10/02/20 10:25

Lab Sample ID: 410-15874-9
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 00:17	PY4D	ELLE

Client Sample ID: KH-0920-MID

Lab Sample ID: 410-15874-11

Date Collected: 09/29/20 15:30

Matrix: Drinking Water

Date Received: 10/02/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 00:29	PY4D	ELLE

Client Sample ID: KH-0920-INF

Lab Sample ID: 410-15874-13

Date Collected: 09/29/20 15:40

Matrix: Drinking Water

Date Received: 10/02/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 00:40	PY4D	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	53805	10/13/20 17:39	PY4D	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	54449	10/15/20 02:09	DCS9	ELLE

Client Sample ID: QA06-092920

Lab Sample ID: 410-15874-15

Date Collected: 09/29/20 15:45

Matrix: Drinking Water

Date Received: 10/02/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 00:52	PY4D	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	53805	10/13/20 17:51	PY4D	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	54449	10/15/20 02:21	DCS9	ELLE

Client Sample ID: XA-0920-EFF

Lab Sample ID: 410-15874-16

Date Collected: 09/29/20 16:10

Matrix: Drinking Water

Date Received: 10/02/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 01:03	PY4D	ELLE

Client Sample ID: XA-0920-MID

Lab Sample ID: 410-15874-18

Date Collected: 09/29/20 16:20

Matrix: Drinking Water

Date Received: 10/02/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 01:15	PY4D	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Client Sample ID: XA-0920-INF

Lab Sample ID: 410-15874-20

Date Collected: 09/29/20 16:30

Matrix: Drinking Water

Date Received: 10/02/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 01:26	PY4D	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	53805	10/13/20 18:03	PY4D	ELLE

Client Sample ID: FB-092920-2

Lab Sample ID: 410-15874-22

Date Collected: 09/29/20 16:45

Matrix: Water

Date Received: 10/02/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51450	10/06/20 16:37	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 01:38	PY4D	ELLE

Client Sample ID: TRIP BLANK - NP

Lab Sample ID: 410-15874-23

Date Collected: 09/29/20 00:00

Matrix: Drinking Water

Date Received: 10/02/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51468	10/06/20 16:59	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 07:35	PY4D	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15874-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-15874-1	QO-0920-EFF	Drinking Water	09/29/20 13:20	10/02/20 10:25	
410-15874-3	QO-0920-MID	Drinking Water	09/29/20 13:30	10/02/20 10:25	
410-15874-5	QO-0920-INF	Drinking Water	09/29/20 13:40	10/02/20 10:25	
410-15874-7	VT-SPGT-092920	Drinking Water	09/29/20 14:30	10/02/20 10:25	
410-15874-9	KH-0920-EFF	Drinking Water	09/29/20 15:20	10/02/20 10:25	
410-15874-11	KH-0920-MID	Drinking Water	09/29/20 15:30	10/02/20 10:25	
410-15874-13	KH-0920-INF	Drinking Water	09/29/20 15:40	10/02/20 10:25	
410-15874-15	QA06-092920	Drinking Water	09/29/20 15:45	10/02/20 10:25	
410-15874-16	XA-0920-EFF	Drinking Water	09/29/20 16:10	10/02/20 10:25	
410-15874-18	XA-0920-MID	Drinking Water	09/29/20 16:20	10/02/20 10:25	
410-15874-20	XA-0920-INF	Drinking Water	09/29/20 16:30	10/02/20 10:25	
410-15874-22	FB-092920-2	Water	09/29/20 16:45	10/02/20 10:25	
410-15874-23	TRIP BLANK - NP	Drinking Water	09/29/20 00:00	10/02/20 10:25	

Chain of Custody Record

410-15874 Chain of Custody

eurofins Environment Testing America

Client Information

Client Contact: Mr. Matthew Kenney
Company: Weston Solutions, Inc
Address: 43 North Main Street
City: Concord
State, Zip: NH, 03301
Phone: 860 712 2684
Email: Matthew.Kenney@WestonSolutions.com
Project Name: Nantucket
Site: NANTUCKET

Sampler: M. KENNEY
Phone: 860 712 2684
Due Date Requested:
TAT Requested (days): STANDARD
PO #: 0102971
WO #:
Project #: 41001960
SSOW#:

Lab PM: Zanar, Elizabeth N
E-Mail: elizabethmzanar@eurofinsus.com

COC No: 410-10047-3065.1
Page: Page 1 of 3
Job #:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
QO-0920-EFF	9/29/20	1320	G	Drinking Wate				X		
QO-0920-EFF-2		1321		Water						HOLD
QO-0920-MID		1330		Water				X		
QO-0920-MID-2		1331		Water						HOLD
QO-0920-INF		1340		Water				X		
QO-0920-INF-2		1341		Water						HOLD
VT-SPGT-092920		1430		Water				X		
VT-SPGT-092920-2		1431		Water						HOLD
KH-0920-EFF		1520		Water				X		
KH-0920-EFF-2		1521		W						HOLD
KH-0920-MID		1530		W				X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FED EX

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	10/1/20 1120	WESTON	SEALED COOLER	10/1/20 1120	
			[signature]	10/2/20 1025	ELLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: N/A

Cooler Temperature(s) °C and Other Remarks: 0.7

QEM

Ver: 01/16/2019

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-10047-3065.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: elizabethmzanar@eurofinsus.com		Page: Page 3 of 3
Company: Weston Solutions, Inc.				Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301				
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site: NANTUCKET	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
KH-0920-MID-2	9/29/20	1531	G	Drinking Wate						HOLD
KH-0920-INF		1540		Water				X		
KH-0920-INF-2		1541		Water						HOLD
QA06-092920		1545		Water				X		
XA-0920-EFF		1610		Water				X		
XA-0920-EFF-2		1611		Water						HOLD
XA-0920-MID		1620		Water				X		
XA-0920-MID-2		1621		Water						HOLD
XA-0920-INF		1630		Water				X		
XA-0920-INF-2		1631								HOLD
FB-092920-2		1645						X		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	10/1/20 1120	WESTON	SEALED COOLER	10/1/20 1120	~~WESTON~~
2						
3				[signature]	10/2/20 1025	ELE

Custody Seals Intact: ☐ Yes ☐ No — Custody Seal No.: N/A

Cooler Temperature(s) °C and Other Remarks: 0.7

Ver: 01/16/2019

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-10047-3065.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: elizabethmzanar@eurofinsus.com		Page: Page 3 of 3
Company: Weston Solutions, Inc.				Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days):			
State, Zip: NH, 03301				
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site: NANTUCKET	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N				
TRIP BLANK - NP	9/29/20	—	—	Drinking Wate				X		
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX				
Relinquished by:	Date/Time: 10/1/20 1120	Company: WESTON	Received by: SEALED COOLER	Date/Time: 10/1/20 1120	Company: —
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/2/20 1025	Company: ELE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: N/A | Cooler Temperature(s) °C and Other Remarks: 0.7

tem

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-15874-1

Login Number: 15874
List Number: 1
Creator: Colon Martinez, Jessenia C

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-15877-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
10/22/2020 4:28:53 PM

Elizabeth Zanar, Project Manager
(717)556-7290
elizabethmzanar@eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

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

* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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

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

Elizabeth M. Zanar

Elizabeth Zanar
Project Manager
10/22/2020 4:28:53 PM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 7
Client Sample Results 9
Surrogate Summary 16
QC Sample Results 17
QC Association Summary 20
Lab Chronicle 22
Certification Summary 25
Method Summary 26
Sample Summary 27
Chain of Custody 28
Receipt Checklists 30

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env | Project #: 410-15877-1

Project Location: Nantucket | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX 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?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ 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?	☑ Yes ☐ 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"?	☑ Yes ☐ 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?	☑ Yes ☐ No ☑ Yes ☐ 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)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability 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?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory 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, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: Jeremy Beckley, designee for Elizabeth Zanar, Project Manager **Date:** 10/22/2020

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Job ID: 410-15877-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-15877-1

Comments
No additional comments.

Receipt
The samples were received on 10/2/2020 10:41 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9º C.

LCMS
Method 537 DW: The recovery for the internal(s) and surrogate(s) in the following sample: IB-0920-INF (410-15877-14) is outside QC acceptance limits. The following action was taken: The sample was re-extracted outside the required holding time and the recovery for the internal(s) and surrogate(s) was within QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Client Sample ID: FB-092920-1 — Lab Sample ID: 410-15877-1

No Detections.

Client Sample ID: UE-0920-EFF — Lab Sample ID: 410-15877-2

No Detections.

Client Sample ID: UE-0920-MID — Lab Sample ID: 410-15877-4

No Detections.

Client Sample ID: UE-0920-INF — Lab Sample ID: 410-15877-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	16		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	8.0		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorodecanoic acid	3.4		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.7		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	46		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	62		1.8		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	300		18		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	95		18		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: NU-SPGT-092920 — Lab Sample ID: 410-15877-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	7.5		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.2		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	17		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	1.6		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: IB-0920-EFF — Lab Sample ID: 410-15877-10

No Detections.

Client Sample ID: IB-0920-MID — Lab Sample ID: 410-15877-12

No Detections.

Client Sample ID: IB-0920-INF — Lab Sample ID: 410-15877-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	26		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	14		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorodecanoic acid	1.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	29		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	210		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	140		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	110		17		ng/L	10		EPA 537 Ver 1.1	Total/NA

Client Sample ID: TD-0920-EFF — Lab Sample ID: 410-15877-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	2.6		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Client Sample ID: TD-0920-MID — Lab Sample ID: 410-15877-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	2.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: TD-0920-INF — Lab Sample ID: 410-15877-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	37		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	53		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanoic acid - DL	270		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid - DL	100		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid - DL	120		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid - DL	410		17		ng/L	10		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid - DL2	1300		170		ng/L	100		EPA 537 Ver 1.1	Total/NA

Client Sample ID: TRIP BLANK-NP — Lab Sample ID: 410-15877-22

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: FB-092920-1

Lab Sample ID: 410-15877-1

Date Collected: 09/29/20 09:10

Matrix: Water

Date Received: 10/02/20 10:41

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
NEtFOSAA	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
NMeFOSAA	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/06/20 16:59	10/12/20 07:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:47*	*1*
13C2 PFDA	*87*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:47*	*1*
13C2 PFHxA	*76*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:47*	*1*

Client Sample ID: UE-0920-EFF

Lab Sample ID: 410-15877-2

Date Collected: 09/29/20 09:15

Matrix: Drinking Water

Date Received: 10/02/20 10:41

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluoroheptanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorooctanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorononanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorodecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorobutanesulfonic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorohexanesulfonic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorooctanesulfonic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
NEtFOSAA	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
NMeFOSAA	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*75*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:00*	*1*
13C2 PFDA	*88*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:00*	*1*
13C2 PFHxA	*87*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:00*	*1*

Client Sample ID: UE-0920-MID

Date Collected: 09/29/20 09:25
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-4

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluoroheptanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorooctanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorononanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorodecanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorotridecanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorotetradecanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorobutanesulfonic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorohexanesulfonic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorooctanesulfonic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
NEtFOSAA	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
NMeFOSAA	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluoroundecanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1
Perfluorododecanoic acid	<1.9		1.9		ng/L		10/04/20 16:23	10/14/20 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:09*	*1*
13C2 PFDA	*91*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:09*	*1*
13C2 PFHxA	*91*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:09*	*1*

Client Sample ID: UE-0920-INF

Date Collected: 09/29/20 09:35
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-6

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	**16**		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluorononanoic acid	**8.0**		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluorodecanoic acid	**3.4**		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluorotridecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluorotetradecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluorobutanesulfonic acid	**2.7**		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluorohexanesulfonic acid	**46**		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluorooctanesulfonic acid	**62**		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
NEtFOSAA	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
NMeFOSAA	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluoroundecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1
Perfluorododecanoic acid	<1.8		1.8		ng/L		10/04/20 16:23	10/14/20 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:18*	*1*
13C2 PFDA	*90*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:18*	*1*
13C2 PFHxA	*83*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:18*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**300**		18		ng/L		10/04/20 16:23	10/14/20 14:24	10
Perfluoroheptanoic acid	**95**		18		ng/L		10/04/20 16:23	10/14/20 14:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*10/04/20 16:23*	*10/14/20 14:24*	*10*

Client Sample ID: UE-0920-INF

Date Collected: 09/29/20 09:35
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-6
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	104		70 - 130	10/04/20 16:23	10/14/20 14:24	10
13C2 PFHxA	104		70 - 130	10/04/20 16:23	10/14/20 14:24	10

Client Sample ID: NU-SPGT-092920

Date Collected: 09/29/20 10:30
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-8
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**7.5**		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluoroheptanoic acid	**3.2**		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorooctanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorononanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorobutanesulfonic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorohexanesulfonic acid	**17**		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorooctanesulfonic acid	**1.6**		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
NEtFOSAA	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
NMeFOSAA	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	89		70 - 130	10/04/20 16:23	10/14/20 01:27	1
13C2 PFDA	90		70 - 130	10/04/20 16:23	10/14/20 01:27	1
13C2 PFHxA	83		70 - 130	10/04/20 16:23	10/14/20 01:27	1

Client Sample ID: IB-0920-EFF

Date Collected: 09/29/20 11:15
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-10
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:36	1

Client Sample ID: IB-0920-EFF

Lab Sample ID: 410-15877-10

Date Collected: 09/29/20 11:15

Matrix: Drinking Water

Date Received: 10/02/20 10:41

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:36*	*1*
13C2 PFDA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:36*	*1*
13C2 PFHxA	*84*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:36*	*1*

Client Sample ID: IB-0920-MID

Lab Sample ID: 410-15877-12

Date Collected: 09/29/20 11:25

Matrix: Drinking Water

Date Received: 10/02/20 10:41

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:46*	*1*
13C2 PFDA	*86*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:46*	*1*
13C2 PFHxA	*84*		*70 - 130*	*10/04/20 16:23*	*10/14/20 01:46*	*1*

Client Sample ID: IB-0920-INF

Lab Sample ID: 410-15877-14

Date Collected: 09/29/20 11:35

Matrix: Drinking Water

Date Received: 10/02/20 10:41

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	**26**		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
Perfluorononanoic acid	**14**		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
Perfluorodecanoic acid	**1.9**		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
Perfluorobutanesulfonic acid	**2.0**		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
Perfluorohexanesulfonic acid	**29**		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
NEtFOSAA	<1.7	*3	1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
NMeFOSAA	<1.7	*3	1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/15/20 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*70*	*3*	*70 - 130*	*10/04/20 16:23*	*10/15/20 16:32*	*1*
13C2 PFDA	*71*		*70 - 130*	*10/04/20 16:23*	*10/15/20 16:32*	*1*

Client Sample ID: IB-0920-INF

Date Collected: 09/29/20 11:35
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-14

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*67*	*X*	*70 - 130*	*10/04/20 16:23*	*10/15/20 16:32*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**210**		17		ng/L		10/04/20 16:23	10/14/20 14:43	10
Perfluoroheptanoic acid	**140**		17		ng/L		10/04/20 16:23	10/14/20 14:43	10
Perfluorooctanesulfonic acid	**110**		17		ng/L		10/04/20 16:23	10/14/20 14:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*10/04/20 16:23*	*10/14/20 14:43*	*10*
13C2 PFDA	*101*		*70 - 130*	*10/04/20 16:23*	*10/14/20 14:43*	*10*
13C2 PFHxA	*96*		*70 - 130*	*10/04/20 16:23*	*10/14/20 14:43*	*10*

Client Sample ID: TD-0920-EFF

Date Collected: 09/29/20 12:10
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-16

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorooctanesulfonic acid	**2.6**		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:13*	*1*
13C2 PFDA	*90*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:13*	*1*
13C2 PFHxA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:13*	*1*

Client Sample ID: TD-0920-MID

Date Collected: 09/29/20 12:20
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-18

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1

Client Sample ID: TD-0920-MID

Date Collected: 09/29/20 12:20
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-18

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluorooctanesulfonic acid	**2.1**		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:22*	*1*
13C2 PFDA	*85*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:22*	*1*
13C2 PFHxA	*85*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:22*	*1*

Client Sample ID: TD-0920-INF

Date Collected: 09/29/20 12:30
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-20

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	**37**		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1
Perfluorobutanesulfonic acid	**53**		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:31*	*1*
13C2 PFDA	*94*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:31*	*1*
13C2 PFHxA	*80*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:31*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**270**		17		ng/L		10/04/20 16:23	10/14/20 14:53	10
Perfluoroheptanoic acid	**100**		17		ng/L		10/04/20 16:23	10/14/20 14:53	10
Perfluorooctanoic acid	**120**		17		ng/L		10/04/20 16:23	10/14/20 14:53	10
Perfluorooctanesulfonic acid	**410**		17		ng/L		10/04/20 16:23	10/14/20 14:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*10/04/20 16:23*	*10/14/20 14:53*	*10*
13C2 PFDA	*96*		*70 - 130*	*10/04/20 16:23*	*10/14/20 14:53*	*10*
13C2 PFHxA	*92*		*70 - 130*	*10/04/20 16:23*	*10/14/20 14:53*	*10*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**1300**		170		ng/L		10/04/20 16:23	10/14/20 15:02	100

Client Sample ID: TD-0920-INF

Lab Sample ID: 410-15877-20

Date Collected: 09/29/20 12:30

Matrix: Drinking Water

Date Received: 10/02/20 10:41

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 15:02*	*100*
13C2 PFDA	*93*		*70 - 130*	*10/04/20 16:23*	*10/14/20 15:02*	*100*
13C2 PFHxA	*91*		*70 - 130*	*10/04/20 16:23*	*10/14/20 15:02*	*100*

Client Sample ID: TRIP BLANK-NP

Lab Sample ID: 410-15877-22

Date Collected: 09/29/20 00:00

Matrix: Drinking Water

Date Received: 10/02/20 10:41

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
NEtFOSAA	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
NMeFOSAA	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/06/20 16:59	10/12/20 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:58*	*1*
13C2 PFDA	*79*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:58*	*1*
13C2 PFHxA	*75*		*70 - 130*	*10/06/20 16:59*	*10/12/20 07:58*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-15877-2	UE-0920-EFF	75	88	87
410-15877-4	UE-0920-MID	90	91	91
410-15877-6	UE-0920-INF	90	90	83
410-15877-6 - DL	UE-0920-INF	92	104	104
410-15877-8	NU-SPGT-092920	89	90	83
410-15877-10	IB-0920-EFF	86	89	84
410-15877-12	IB-0920-MID	88	86	84
410-15877-14 - DL	IB-0920-INF	91	101	96
410-15877-14	IB-0920-INF	70 *3	71	67 X
410-15877-16	TD-0920-EFF	89	90	89
410-15877-18	TD-0920-MID	86	85	85
410-15877-20	TD-0920-INF	90	94	80
410-15877-20 - DL	TD-0920-INF	93	96	92
410-15877-20 - DL2	TD-0920-INF	89	93	91
410-15877-22	TRIP BLANK-NP	86	79	75
LCS 410-50622/2-A	Lab Control Sample	91	91	86
LCS 410-51468/2-A	Lab Control Sample	87	88	72
LCSD 410-50622/3-A	Lab Control Sample Dup	89	89	80
LLCS 410-51468/4-A	Lab Control Sample	95	89	76
MB 410-50622/1-A	Method Blank	85	89	78
MB 410-51468/1-A	Method Blank	95	85	77

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-15877-1	FB-092920-1	87	87	76

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-50622/1-A
Matrix: Drinking Water
Analysis Batch: 53886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
NEtFOSAA	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
NMeFOSAA	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*10/04/20 16:23*	*10/14/20 00:24*	*1*
13C2 PFDA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 00:24*	*1*
13C2 PFHxA	*78*		*70 - 130*	*10/04/20 16:23*	*10/14/20 00:24*	*1*

Lab Sample ID: LCS 410-50622/2-A
Matrix: Drinking Water
Analysis Batch: 53886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	21.1		ng/L		103	70 - 130
Perfluoroheptanoic acid	20.5	22.2		ng/L		108	70 - 130
Perfluorooctanoic acid	20.5	22.8		ng/L		111	70 - 130
Perfluorononanoic acid	20.5	21.5		ng/L		105	70 - 130
Perfluorodecanoic acid	20.5	21.9		ng/L		107	70 - 130
Perfluorotridecanoic acid	20.5	22.1		ng/L		108	70 - 130
Perfluorotetradecanoic acid	20.5	22.8		ng/L		112	70 - 130
Perfluorobutanesulfonic acid	18.1	20.0		ng/L		110	70 - 130
Perfluorohexanesulfonic acid	18.7	21.2		ng/L		114	70 - 130
Perfluorooctanesulfonic acid	19.0	21.5		ng/L		113	70 - 130
NEtFOSAA	20.5	22.3		ng/L		109	70 - 130
NMeFOSAA	20.5	23.2		ng/L		113	70 - 130
Perfluoroundecanoic acid	20.5	22.1		ng/L		108	70 - 130
Perfluorododecanoic acid	20.5	22.7		ng/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*91*		*70 - 130*
13C2 PFDA	*91*		*70 - 130*
13C2 PFHxA	*86*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-50622/3-A
Matrix: Drinking Water
Analysis Batch: 53886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	19.8		ng/L		97	70 - 130	6	30
Perfluoroheptanoic acid			20.5	21.5		ng/L		105	70 - 130	3	30
Perfluorooctanoic acid			20.5	22.7		ng/L		111	70 - 130	0	30
Perfluorononanoic acid			20.5	21.1		ng/L		103	70 - 130	2	30
Perfluorodecanoic acid			20.5	22.0		ng/L		107	70 - 130	0	30
Perfluorotridecanoic acid			20.5	21.7		ng/L		106	70 - 130	2	30
Perfluorotetradecanoic acid			20.5	22.4		ng/L		109	70 - 130	2	30
Perfluorobutanesulfonic acid			18.1	17.9		ng/L		99	70 - 130	11	30
Perfluorohexanesulfonic acid			18.7	21.3		ng/L		114	70 - 130	0	30
Perfluorooctanesulfonic acid			19.0	21.9		ng/L		116	70 - 130	2	30
NEtFOSAA			20.5	22.7		ng/L		111	70 - 130	2	30
NMeFOSAA			20.5	22.9		ng/L		112	70 - 130	1	30
Perfluoroundecanoic acid			20.5	22.4		ng/L		109	70 - 130	1	30
Perfluorododecanoic acid			20.5	22.1		ng/L		108	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*89*		*70 - 130*
13C2 PFDA	*89*		*70 - 130*
13C2 PFHxA	*80*		*70 - 130*

Lab Sample ID: MB 410-51468/1-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
NEtFOSAA	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
NMeFOSAA	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/06/20 16:59	10/12/20 06:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*10/06/20 16:59*	*10/12/20 06:49*	*1*
13C2 PFDA	*85*		*70 - 130*	*10/06/20 16:59*	*10/12/20 06:49*	*1*
13C2 PFHxA	*77*		*70 - 130*	*10/06/20 16:59*	*10/12/20 06:49*	*1*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCS 410-51468/2-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	66.1		ng/L		83	70 - 130
Perfluoroheptanoic acid	80.0	77.7		ng/L		97	70 - 130
Perfluorooctanoic acid	80.0	89.3	E	ng/L		112	70 - 130
Perfluorononanoic acid	80.0	76.7		ng/L		96	70 - 130
Perfluorodecanoic acid	80.0	78.8		ng/L		99	70 - 130
Perfluorotridecanoic acid	80.0	93.9	E	ng/L		117	70 - 130
Perfluorotetradecanoic acid	80.0	85.7	E	ng/L		107	70 - 130
Perfluorobutanesulfonic acid	70.8	61.4		ng/L		87	70 - 130
Perfluorohexanesulfonic acid	73.0	81.7	E	ng/L		112	70 - 130
Perfluorooctanesulfonic acid	74.0	76.3	E	ng/L		103	70 - 130
NEtFOSAA	80.0	83.6	E	ng/L		104	70 - 130
NMeFOSAA	80.0	85.3	E	ng/L		107	70 - 130
Perfluoroundecanoic acid	80.0	78.9		ng/L		99	70 - 130
Perfluorododecanoic acid	80.0	85.2	E	ng/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*87*		*70 - 130*
13C2 PFDA	*88*		*70 - 130*
13C2 PFHxA	*72*		*70 - 130*

Lab Sample ID: LLCS 410-51468/4-A
Matrix: Drinking Water
Analysis Batch: 53051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51468

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	1.92	2.14		ng/L		112	50 - 150
Perfluoroheptanoic acid	1.92	2.41		ng/L		126	50 - 150
Perfluorooctanoic acid	1.92	2.74		ng/L		143	50 - 150
Perfluorononanoic acid	1.92	2.30		ng/L		120	50 - 150
Perfluorodecanoic acid	1.92	2.46		ng/L		128	50 - 150
Perfluorotridecanoic acid	1.92	2.40		ng/L		125	50 - 150
Perfluorotetradecanoic acid	1.92	2.57		ng/L		134	50 - 150
Perfluorobutanesulfonic acid	1.70	1.93	J	ng/L		113	50 - 150
Perfluorohexanesulfonic acid	1.75	2.40		ng/L		137	50 - 150
Perfluorooctanesulfonic acid	1.78	2.39		ng/L		135	50 - 150
NEtFOSAA	1.92	2.69		ng/L		140	50 - 150
NMeFOSAA	1.92	2.42		ng/L		126	50 - 150
Perfluoroundecanoic acid	1.92	2.30		ng/L		120	50 - 150
Perfluorododecanoic acid	1.92	2.36		ng/L		123	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
d5-NEtFOSAA	*95*		*70 - 130*
13C2 PFDA	*89*		*70 - 130*
13C2 PFHxA	*76*		*70 - 130*

LCMS

Prep Batch: 50622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15877-2	UE-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-4	UE-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-6 - DL	UE-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-6	UE-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-8	NU-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-10	IB-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-12	IB-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-14 - DL	IB-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-14	IB-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-16	TD-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-18	TD-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-20	TD-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-20 - DL2	TD-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15877-20 - DL	TD-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-50622/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-50622/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-50622/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Prep Batch: 51468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15877-1	FB-092920-1	Total/NA	Water	EPA 537 Ver 1.1	
410-15877-22	TRIP BLANK-NP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-51468/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-51468/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LLCS 410-51468/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 53051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15877-1	FB-092920-1	Total/NA	Water	EPA 537 Ver 1.1	51468
410-15877-22	TRIP BLANK-NP	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468
MB 410-51468/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468
LCS 410-51468/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468
LLCS 410-51468/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	51468

Analysis Batch: 53886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15877-2	UE-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-4	UE-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-6	UE-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-8	NU-SPGT-092920	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-10	IB-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-12	IB-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-16	TD-0920-EFF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-18	TD-0920-MID	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-20	TD-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
MB 410-50622/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
LCS 410-50622/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
LCSD 410-50622/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

LCMS

Analysis Batch: 53906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15877-6 - DL	UE-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-14 - DL	IB-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-20 - DL	TD-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15877-20 - DL2	TD-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622

Analysis Batch: 54875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15877-14	IB-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622

Prep Batch: 55216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15877-14 - RE	IB-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-55216/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-55216/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-55216/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 56065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15877-14 - RE	IB-0920-INF	Total/NA	Drinking Water	EPA 537 Ver 1.1	55216
MB 410-55216/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	55216
LCS 410-55216/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	55216
LCSD 410-55216/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	55216

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Client Sample ID: FB-092920-1
Date Collected: 09/29/20 09:10
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51468	10/06/20 16:59	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 07:47	PY4D	ELLE

Client Sample ID: UE-0920-EFF
Date Collected: 09/29/20 09:15
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-2
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 01:00	UCD3	ELLE

Client Sample ID: UE-0920-MID
Date Collected: 09/29/20 09:25
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-4
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 01:09	UCD3	ELLE

Client Sample ID: UE-0920-INF
Date Collected: 09/29/20 09:35
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-6
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 01:18	UCD3	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	53906	10/14/20 14:24	DCS9	ELLE

Client Sample ID: NU-SPGT-092920
Date Collected: 09/29/20 10:30
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-8
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 01:27	UCD3	ELLE

Client Sample ID: IB-0920-EFF
Date Collected: 09/29/20 11:15
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-10
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 01:36	UCD3	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Client Sample ID: IB-0920-MID
Date Collected: 09/29/20 11:25
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-12
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 01:46	UCD3	ELLE

Client Sample ID: IB-0920-INF
Date Collected: 09/29/20 11:35
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-14
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1	RE		55216	10/16/20 10:15	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	RE	1	56065	10/20/20 04:53	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	53906	10/14/20 14:43	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	54875	10/15/20 16:32	PY4D	ELLE

Client Sample ID: TD-0920-EFF
Date Collected: 09/29/20 12:10
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-16
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 02:13	UCD3	ELLE

Client Sample ID: TD-0920-MID
Date Collected: 09/29/20 12:20
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-18
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 02:22	UCD3	ELLE

Client Sample ID: TD-0920-INF
Date Collected: 09/29/20 12:30
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-20
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 02:31	UCD3	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL		50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL	10	53906	10/14/20 14:53	DCS9	ELLE
Total/NA	Prep	EPA 537 Ver 1.1	DL2		50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1	DL2	100	53906	10/14/20 15:02	DCS9	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Client Sample ID: TRIP BLANK-NP

Date Collected: 09/29/20 00:00
Date Received: 10/02/20 10:41

Lab Sample ID: 410-15877-22

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			51468	10/06/20 16:59	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53051	10/12/20 07:58	PY4D	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15877-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-15877-1	FB-092920-1	Water	09/29/20 09:10	10/02/20 10:41	
410-15877-2	UE-0920-EFF	Drinking Water	09/29/20 09:15	10/02/20 10:41	
410-15877-4	UE-0920-MID	Drinking Water	09/29/20 09:25	10/02/20 10:41	
410-15877-6	UE-0920-INF	Drinking Water	09/29/20 09:35	10/02/20 10:41	
410-15877-8	NU-SPGT-092920	Drinking Water	09/29/20 10:30	10/02/20 10:41	
410-15877-10	IB-0920-EFF	Drinking Water	09/29/20 11:15	10/02/20 10:41	
410-15877-12	IB-0920-MID	Drinking Water	09/29/20 11:25	10/02/20 10:41	
410-15877-14	IB-0920-INF	Drinking Water	09/29/20 11:35	10/02/20 10:41	
410-15877-16	TD-0920-EFF	Drinking Water	09/29/20 12:10	10/02/20 10:41	
410-15877-18	TD-0920-MID	Drinking Water	09/29/20 12:20	10/02/20 10:41	
410-15877-20	TD-0920-INF	Drinking Water	09/29/20 12:30	10/02/20 10:41	
410-15877-22	TRIP BLANK-NP	Drinking Water	09/29/20 00:00	10/02/20 10:41	

Chain of Custody Record

410-15877 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY	Lab PM: Zanar, Elizabeth M	COC No: 410-10047-3065.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: elizabethmzanar@eurofinsus.com	Page: Page 1 of 2
Company: Weston Solutions, Inc.			Job #:
Address: 43 North Main Street	Due Date Requested:		
City: Concord	TAT Requested (days): STANDARD		
State, Zip: NH, 03301			
Phone: 860 712 2684	PO #: 0102971		
Email: Matthew.Kenney@WestonSolutions.com	WO #:		
Project Name: Nantucket	Project #: 41001960		
Site: NANTUCKET	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N		X	
FB-092920-1	9/29/20	0910	G	Drinking Wate			X			
UE-0920-EFF		0915		Water				X		
UE-0920-EFF-2		0916		Water						HOLD
UE-0920-MID		0925		Water				X		
UE-0920-MID-2		0926		Water						HOLD
UE-0920-INF		0935		Water				X		
UE-0920-INF-2		0936		Water						HOLD
NU-SPGT-092920		1030		Water				X		
NU-SPGT-092920-2		1031		Water						HOLD
IB-0920-EFF		1115		W				X		
IB-0920-EFF-2		1116		W						HOLD

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-25-20 1510	EZE		9/28/20 1000	WESTON
2		10/1/20 1110	WESTON	SEALED COOLER	10/1/20 1110	
3					10/2/20 1041	EZE

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: N/A

Cooler Temperature(s) °C and Other Remarks: 1.9

Ver: 01/16/2019

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-10047-3065.1
Client Contact: Mr. Matthew Kenney	Phone:	E-Mail: elizabethmzanar@eurofinsus.com		Page: Page 2 of 2
Company: Weston Solutions, Inc.				Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days):			
State, Zip: NH, 03301				
Phone:	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
1B-0920-MID	9/29/20	1125	G	Drinking Wate				X		
1B-0920-MID-2		1126		Water						HOLD
1B-0920-INF		1135		Water				X		
1B-0920-INF-2		1136		Water						HOLD
TD-0920-EFF		1210		Water				X		
TD-0920-EFF-2		1211		Water						HOLD
TD-0920-MID		1220		Water				X		
TD-0920-MID-2		1221		Water						HOLD
TD-0920-INF		1230		Water				X		
TD-0920-INF-2		1231		W						HOLD
TRIP BLANK-NP		—		W				X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	10/1/20 1110	WESTON	SEALED COOLER	10/1/20 1110	—
2						
3					10/2/20 1041	ECE

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: N/A

Cooler Temperature(s) °C and Other Remarks: 1.9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Weston Solutions, Inc. Job Number: 410-15877-1

Login Number: 15877 **List Source: Eurofins Lancaster Laboratories Env**
List Number: 1
Creator: Colon Martinez, Jessenia C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-15879-1
Client Project/Site: Nantucket

For:
Weston Solutions, Inc.
43 North Main Street
Concord, New Hampshire 03301

Attn: Lisa Kammer

Elizabeth M. Zanar

Authorized for release by:
10/19/2020 2:57:11 PM

Elizabeth Zanar, Project Manager
(717)556-7290
elizabethmzanar@eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

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

* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

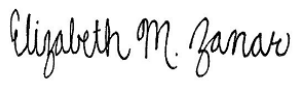
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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

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



Elizabeth Zanar
Project Manager
10/19/2020 2:57:11 PM

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 7
Client Sample Results 9
Surrogate Summary 14
QC Sample Results 15
QC Association Summary 17
Lab Chronicle 18
Certification Summary 20
Method Summary 21
Sample Summary 22
Chain of Custody 23
Receipt Checklists 25

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Lancaster Laboratories Env | Project #: 410-15879-1

Project Location: Nantucket | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☑ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX 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?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ 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?	☑ Yes ☐ 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"?	☑ Yes ☐ 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?	☑ Yes ☐ No ☑ Yes ☐ 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)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability 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?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory 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, is accurate and complete.

Signature: _____ **Position:** _____

Printed Name: Jeremy Beckley, designee for Elizabeth Zanar, Project Manager **Date:** 10/16/2020

Job ID: 410-15879-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-15879-1

Comments
No additional comments.

Receipt
The samples were received on 10/2/2020 10:33 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1º C.

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Client Sample ID: XT-SPGT-093020 — Lab Sample ID: 410-15879-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.9		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	3.0		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	6.3		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	2.0		1.6		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FB-093020-1 — Lab Sample ID: 410-15879-3

No Detections.

Client Sample ID: AY-SPGT-093020 — Lab Sample ID: 410-15879-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	5.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	7.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	2.3		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	1.7		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	32		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	23		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: KB-PT-093020 — Lab Sample ID: 410-15879-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	2.5		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.4		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	2.2		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: WJ-SPGT-093020 — Lab Sample ID: 410-15879-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	3.8		2.0		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.1		2.0		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	2.9		2.0		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: PN-SPGT-093020 — Lab Sample ID: 410-15879-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	3.4		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	1.9		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: FC-SPGT-093020 — Lab Sample ID: 410-15879-12

No Detections.

Client Sample ID: KX-SPGT-093020 — Lab Sample ID: 410-15879-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	3.0		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	5.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	3.3		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	2.1		1.7		ng/L	1		EPA 537 Ver 1.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Client Sample ID: TRIP BLANK - NP

Lab Sample ID: 410-15879-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: XT-SPGT-093020

Date Collected: 09/30/20 08:20
Date Received: 10/02/20 10:33

Lab Sample ID: 410-15879-1
Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**1.9**		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluoroheptanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorooctanoic acid	**3.0**		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorononanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorodecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorotridecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorotetradecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorobutanesulfonic acid	**6.3**		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorohexanesulfonic acid	**2.0**		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorooctanesulfonic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
NEtFOSAA	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
NMeFOSAA	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluoroundecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1
Perfluorododecanoic acid	<1.6		1.6		ng/L		10/04/20 16:23	10/14/20 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*83*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:40*	*1*
13C2 PFDA	*80*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:40*	*1*
13C2 PFHxA	*74*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:40*	*1*

Client Sample ID: FB-093020-1

Date Collected: 09/30/20 08:35
Date Received: 10/02/20 10:33

Lab Sample ID: 410-15879-3
Matrix: Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:49*	*1*
13C2 PFDA	*94*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:49*	*1*
13C2 PFHxA	*88*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:49*	*1*

Client Sample ID: AY-SPGT-093020

Lab Sample ID: 410-15879-4

Date Collected: 09/30/20 08:50

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**5.5**		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluoroheptanoic acid	**3.0**		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorooctanoic acid	**7.5**		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorononanoic acid	**2.3**		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorobutanesulfonic acid	**1.7**		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorohexanesulfonic acid	**32**		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorooctanesulfonic acid	**23**		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*81*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:58*	*1*
13C2 PFDA	*79*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:58*	*1*
13C2 PFHxA	*77*		*70 - 130*	*10/04/20 16:23*	*10/14/20 02:58*	*1*

Client Sample ID: KB-PT-093020

Lab Sample ID: 410-15879-6

Date Collected: 09/30/20 09:20

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**3.2**		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorooctanoic acid	**2.5**		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorobutanesulfonic acid	**2.4**		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorohexanesulfonic acid	**2.2**		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:07*	*1*
13C2 PFDA	*88*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:07*	*1*
13C2 PFHxA	*81*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:07*	*1*

Client Sample ID: WJ-SPGT-093020

Lab Sample ID: 410-15879-8

Date Collected: 09/30/20 09:50

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorooctanoic acid	**3.8**		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorobutanesulfonic acid	**2.1**		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorohexanesulfonic acid	**2.9**		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
NEtFOSAA	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
NMeFOSAA	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:16*	*1*
13C2 PFDA	*85*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:16*	*1*
13C2 PFHxA	*84*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:16*	*1*

Client Sample ID: PN-SPGT-093020

Lab Sample ID: 410-15879-10

Date Collected: 09/30/20 10:25

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorooctanoic acid	**3.4**		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorobutanesulfonic acid	**2.1**		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorooctanesulfonic acid	**1.9**		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*90*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:25*	*1*
13C2 PFDA	*93*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:25*	*1*
13C2 PFHxA	*86*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:25*	*1*

Client Sample ID: FC-SPGT-093020

Lab Sample ID: 410-15879-12

Date Collected: 09/30/20 10:45

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:43*	*1*
13C2 PFDA	*93*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:43*	*1*
13C2 PFHxA	*86*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:43*	*1*

Client Sample ID: KX-SPGT-093020

Lab Sample ID: 410-15879-14

Date Collected: 09/30/20 14:10

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorooctanoic acid	**3.0**		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorobutanesulfonic acid	**5.1**		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorohexanesulfonic acid	**3.3**		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorooctanesulfonic acid	**2.1**		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:53*	*1*
13C2 PFDA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:53*	*1*
13C2 PFHxA	*84*		*70 - 130*	*10/04/20 16:23*	*10/14/20 03:53*	*1*

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Client Sample ID: TRIP BLANK - NP

Date Collected: 09/30/20 00:00
Date Received: 10/02/20 10:33

Lab Sample ID: 410-15879-16

Matrix: Drinking Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluoroheptanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorooctanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorononanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorodecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorotridecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorotetradecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorobutanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorohexanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorooctanesulfonic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
NEtFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
NMeFOSAA	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluoroundecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1
Perfluorododecanoic acid	<1.7		1.7		ng/L		10/04/20 16:23	10/14/20 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*10/04/20 16:23*	*10/14/20 04:02*	*1*
13C2 PFDA	*93*		*70 - 130*	*10/04/20 16:23*	*10/14/20 04:02*	*1*
13C2 PFHxA	*88*		*70 - 130*	*10/04/20 16:23*	*10/14/20 04:02*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-15879-1	XT-SPGT-093020	83	80	74
410-15879-4	AY-SPGT-093020	81	79	77
410-15879-6	KB-PT-093020	87	88	81
410-15879-8	WJ-SPGT-093020	89	85	84
410-15879-10	PN-SPGT-093020	90	93	86
410-15879-12	FC-SPGT-093020	91	93	86
410-15879-14	KX-SPGT-093020	89	89	84
410-15879-16	TRIP BLANK - NP	93	93	88
LCS 410-50622/2-A	Lab Control Sample	91	91	86
LCSD 410-50622/3-A	Lab Control Sample Dup	89	89	80
MB 410-50622/1-A	Method Blank	85	89	78

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-15879-3	FB-093020-1	93	94	88

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-50622/1-A
Matrix: Drinking Water
Analysis Batch: 53886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluoroheptanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorooctanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorononanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorodecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorotridecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorotetradecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorobutanesulfonic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorohexanesulfonic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorooctanesulfonic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
NEtFOSAA	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
NMeFOSAA	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluoroundecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1
Perfluorododecanoic acid	<2.0		2.0		ng/L		10/04/20 16:23	10/14/20 00:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*10/04/20 16:23*	*10/14/20 00:24*	*1*
13C2 PFDA	*89*		*70 - 130*	*10/04/20 16:23*	*10/14/20 00:24*	*1*
13C2 PFHxA	*78*		*70 - 130*	*10/04/20 16:23*	*10/14/20 00:24*	*1*

Lab Sample ID: LCS 410-50622/2-A
Matrix: Drinking Water
Analysis Batch: 53886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	21.1		ng/L		103	70 - 130
Perfluoroheptanoic acid	20.5	22.2		ng/L		108	70 - 130
Perfluorooctanoic acid	20.5	22.8		ng/L		111	70 - 130
Perfluorononanoic acid	20.5	21.5		ng/L		105	70 - 130
Perfluorodecanoic acid	20.5	21.9		ng/L		107	70 - 130
Perfluorotridecanoic acid	20.5	22.1		ng/L		108	70 - 130
Perfluorotetradecanoic acid	20.5	22.8		ng/L		112	70 - 130
Perfluorobutanesulfonic acid	18.1	20.0		ng/L		110	70 - 130
Perfluorohexanesulfonic acid	18.7	21.2		ng/L		114	70 - 130
Perfluorooctanesulfonic acid	19.0	21.5		ng/L		113	70 - 130
NEtFOSAA	20.5	22.3		ng/L		109	70 - 130
NMeFOSAA	20.5	23.2		ng/L		113	70 - 130
Perfluoroundecanoic acid	20.5	22.1		ng/L		108	70 - 130
Perfluorododecanoic acid	20.5	22.7		ng/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*91*		*70 - 130*
13C2 PFDA	*91*		*70 - 130*
13C2 PFHxA	*86*		*70 - 130*

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-50622/3-A
Matrix: Drinking Water
Analysis Batch: 53886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	19.8		ng/L		97	70 - 130	6	30
Perfluoroheptanoic acid			20.5	21.5		ng/L		105	70 - 130	3	30
Perfluorooctanoic acid			20.5	22.7		ng/L		111	70 - 130	0	30
Perfluorononanoic acid			20.5	21.1		ng/L		103	70 - 130	2	30
Perfluorodecanoic acid			20.5	22.0		ng/L		107	70 - 130	0	30
Perfluorotridecanoic acid			20.5	21.7		ng/L		106	70 - 130	2	30
Perfluorotetradecanoic acid			20.5	22.4		ng/L		109	70 - 130	2	30
Perfluorobutanesulfonic acid			18.1	17.9		ng/L		99	70 - 130	11	30
Perfluorohexanesulfonic acid			18.7	21.3		ng/L		114	70 - 130	0	30
Perfluorooctanesulfonic acid			19.0	21.9		ng/L		116	70 - 130	2	30
NEtFOSAA			20.5	22.7		ng/L		111	70 - 130	2	30
NMeFOSAA			20.5	22.9		ng/L		112	70 - 130	1	30
Perfluoroundecanoic acid			20.5	22.4		ng/L		109	70 - 130	1	30
Perfluorododecanoic acid			20.5	22.1		ng/L		108	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*89*		*70 - 130*
13C2 PFDA	*89*		*70 - 130*
13C2 PFHxA	*80*		*70 - 130*

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

LCMS

Prep Batch: 50622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15879-1	XT-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15879-3	FB-093020-1	Total/NA	Water	EPA 537 Ver 1.1	
410-15879-4	AY-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15879-6	KB-PT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15879-8	WJ-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15879-10	PN-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15879-12	FC-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15879-14	KX-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-15879-16	TRIP BLANK - NP	Total/NA	Drinking Water	EPA 537 Ver 1.1	
MB 410-50622/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-50622/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-50622/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 53886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15879-1	XT-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15879-3	FB-093020-1	Total/NA	Water	EPA 537 Ver 1.1	50622
410-15879-4	AY-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15879-6	KB-PT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15879-8	WJ-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15879-10	PN-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15879-12	FC-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15879-14	KX-SPGT-093020	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
410-15879-16	TRIP BLANK - NP	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
MB 410-50622/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
LCS 410-50622/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622
LCSD 410-50622/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	50622

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Client Sample ID: XT-SPGT-093020
Lab Sample ID: 410-15879-1
Date Collected: 09/30/20 08:20
Matrix: Drinking Water
Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 02:40	UCD3	ELLE

Client Sample ID: FB-093020-1
Lab Sample ID: 410-15879-3
Date Collected: 09/30/20 08:35
Matrix: Water
Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 02:49	UCD3	ELLE

Client Sample ID: AY-SPGT-093020
Lab Sample ID: 410-15879-4
Date Collected: 09/30/20 08:50
Matrix: Drinking Water
Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 02:58	UCD3	ELLE

Client Sample ID: KB-PT-093020
Lab Sample ID: 410-15879-6
Date Collected: 09/30/20 09:20
Matrix: Drinking Water
Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 03:07	UCD3	ELLE

Client Sample ID: WJ-SPGT-093020
Lab Sample ID: 410-15879-8
Date Collected: 09/30/20 09:50
Matrix: Drinking Water
Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 03:16	UCD3	ELLE

Client Sample ID: PN-SPGT-093020
Lab Sample ID: 410-15879-10
Date Collected: 09/30/20 10:25
Matrix: Drinking Water
Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 03:25	UCD3	ELLE

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Client Sample ID: FC-SPGT-093020

Lab Sample ID: 410-15879-12

Date Collected: 09/30/20 10:45

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 03:43	UCD3	ELLE

Client Sample ID: KX-SPGT-093020

Lab Sample ID: 410-15879-14

Date Collected: 09/30/20 14:10

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 03:53	UCD3	ELLE

Client Sample ID: TRIP BLANK - NP

Lab Sample ID: 410-15879-16

Date Collected: 09/30/20 00:00

Matrix: Drinking Water

Date Received: 10/02/20 10:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			50622	10/04/20 16:23	NP8L	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	53886	10/14/20 04:02	UCD3	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Drinking Water	Perfluoroundecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NEtFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	NMeFOSAA
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorobutanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorodecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorododecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroheptanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorohexanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorononanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanesulfonic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorooctanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotetradecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluorotridecanoic acid
EPA 537 Ver 1.1	EPA 537 Ver 1.1	Water	Perfluoroundecanoic acid

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Nantucket

Job ID: 410-15879-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-15879-1	XT-SPGT-093020	Drinking Water	09/30/20 08:20	10/02/20 10:33	
410-15879-3	FB-093020-1	Water	09/30/20 08:35	10/02/20 10:33	
410-15879-4	AY-SPGT-093020	Drinking Water	09/30/20 08:50	10/02/20 10:33	
410-15879-6	KB-PT-093020	Drinking Water	09/30/20 09:20	10/02/20 10:33	
410-15879-8	WJ-SPGT-093020	Drinking Water	09/30/20 09:50	10/02/20 10:33	
410-15879-10	PN-SPGT-093020	Drinking Water	09/30/20 10:25	10/02/20 10:33	
410-15879-12	FC-SPGT-093020	Drinking Water	09/30/20 10:45	10/02/20 10:33	
410-15879-14	KX-SPGT-093020	Drinking Water	09/30/20 14:10	10/02/20 10:33	
410-15879-16	TRIP BLANK - NP	Drinking Water	09/30/20 00:00	10/02/20 10:33	

Chain of Custody Record

410-15879 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY	Lab PM: Zanar, Elizabeth M	COC No: 410-10047-3065.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: elizabethmzanar@eurofinsus.com	Page: Page 1 of 2
Company: Weston Solutions, Inc.			Job #:
Address: 43 North Main Street	Due Date Requested:		
City: Concord	TAT Requested (days): STANDARD		
State, Zip: NH, 03301			
Phone: 860 712 2684	PO #: 0102971		
Email: Matthew.Kenney@WestonSolutions.com	WO #:		
Project Name: Nantucket	Project #: 41001960		
Site: NANTUCKET	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
XT-SPGT-093020	9/30/20	0820	G	Drinking Wate				X		
XT-SPGT-093020-2		0821		Water						HOLD
FB-093020-1		0835		Water			X			
AY-SPGT-093020		0850		Water				X		
AY-SPGT-093020-2		0851		Water						HOLD
KB-PT-093020		0920		Water				X		
KB-PT-093020-2		0921		Water						HOLD
WJ-SPGT-093020		0950		Water				X		
WJ-SPGT-093020-2		0951		Water						HOLD
PN-SPGT-093020		1025		W				X		
PN-SPGT-093020-2		1026		W						HOLD

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 10/1/20 1125	Company: WESTON	Received by: SEALED COOLER
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Date/Time	Company
10/1/20 1125	
10/2/20 1033	ETTE

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: 87358

Cooler Temperature(s) °C and Other Remarks: 1.1

Ver: 01/16/2019

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: M. KENNEY	Lab PM: Zanar, Elizabeth M	Carrier Tracking No(s):	COC No: 410-10047-3065.1
Client Contact: Mr. Matthew Kenney	Phone: 860 712 2684	E-Mail: elizabethmzanar@eurofinsus.com		Page: Page 2 of 2
Company: Weston Solutions, Inc.				Job #:
Address: 43 North Main Street	Due Date Requested:			
City: Concord	TAT Requested (days): STANDARD			
State, Zip: NH, 03301				
Phone: 860 712 2684	PO #: 0102971			
Email: Matthew.Kenney@WestonSolutions.com	WO #:			
Project Name: Nantucket	Project #: 41001960			
Site: NANTUCKET	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537_DW - Potable 14 Standard	537_DW - Potable 14 Standard	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
FC-SPGT-093020	9/30/20	1045	G	Drinking Wate				X		
FC-SPGT-093020-2	|	1046	|	Water						HOLD
KX-SPGT-093020	|	1410	|	Water				X		
KX-SPGT-093020-2	|	1411	|	Water						HOLD
TRIP BLANK - NP	|	—	|	Water				X		
				Water						
				Water						
				Water						
				Water						

NK

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: MA MCP

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	10/1/20 1125	WESTON	SEALED COOLER	10/1/20 1125	—
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 10/2/20 1033	Company: ETTE

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: 87358

Cooler Temperature(s) °C and Other Remarks: 1.1

ACM

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 410-15879-1

Login Number: 15879
List Number: 1
Creator: Colon Martinez, Jessenia C

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	