DEPARTMENT OF THE AIR FORCE
AIR FORCE CIVIL ENGINEER CENTER

October 8, 2015

MEMORANDUM FOR: NYSDEC
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FROM: AFCEC/CIBE-Plattsburgh
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Plattsburgh, NY 12903

SUBJECT: Perfluorinated Compounds (PFCs) Release Determination Final Site Investigation Report for the former Plattsburgh Air Force Base, Plattsburgh, New York

Attached for your records is the Perfluorinated Compounds (PFCs) Release Determination Final Site Investigation Report, for the Former Fire Training Area, at the former Plattsburgh Air Force Base. Also attached are the Air Force responses to the NYSDEC and the USEPA comments to the June 2015 draft document.

If you have any questions, please contact me at 518-563-2871 or david.farnsworth@us.af.mil.

DAVID S. FARNSWORTH
Program Manager/BRAC Environmental Coordinator
BRAC Program Execution Branch

Attachments:
1. Site Investigation Report (CD)
2. Responses to Comments (CD)

cc:
USEPA (Mr. Robert Morse)(Atch under sep cover)
NYSDEC Region 5 (Mr. Russell Hucyk)(CD)
NYSDOH (Ms. Wendy S. Kuehner,P.E.)(CD)
AFCEC/CIBE (Mr. Sean Eldredge)(Atch under sep cover)
BRAC/AR (Administrative Record)(CD)

DEPARTMENT OF THE AIR FORCE
AIR FORCE CIVIL ENGINEER CENTER

October 8, 2015

MEMORANDUM FOR: USEPA, REGION 2
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SUBJECT: Perfluorinated Compounds (PFCs) Release Determination Final Site Investigation Report for the former Plattsburgh Air Force Base, Plattsburgh, New York

Attached for your records is the Perfluorinated Compounds (PFCs) Release Determination Final Site Investigation Report, for the Former Fire Training Area, at the former Plattsburgh Air Force Base. Also attached are the Air Force responses to the NYSDEC and the USEPA comments to the June 2015 draft document.

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DAVID S. FARNSWORTH
Program Manager/BRAC Environmental Coordinator
BRAC Program Execution Branch

Attachments:
1. Site Investigation Report (CD and 2 CY)
2. Responses to Comments (CD and 2 CY)

cc:
NYSDEC (Mr. Daniel Eaton)(Atch under sep cover)
AFCEC/CIBE (Mr. Sean Eldredge)(CD)
BRAC/AR (Administrative Record)(CD)

FINAL

PERFLUORINATED COMPOUNDS (PFCs) RELEASE DETERMINATION AT MULTIPLE BRAC BASES
SITE INVESTIGATION REPORT
FORMER PLATTSBURGH AIR FORCE BASE
PROJECT NO. THWA20147242

Prepared for:
Air Force Civil Engineer Center
Joint Base San Antonio – Lackland, Texas

Prepared by:

Amec Foster Wheeler Environment & Infrastructure, Inc.

Contract FA8903-08-D-8766
Task Order 0177

October 2015

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ACRONYMS AND ABBREVIATION

AFB	Air Force Base
AFCEC	Air Force Civil Engineer Center
AFFF	Aqueous Film Forming Foam
AMEC	AMEC Environment & Infrastructure, Inc.
Amec Foster Wheeler	Amec Foster Wheeler Environment & Infrastructure, Inc.
bgs	below ground surface
BRAC	Base Realignment and Closure
CCL	Contaminant Candidate List
CCL3	Contaminant Candidate List Number 3
cm/sec	centimeters per second
CSM	Conceptual Site Model
DoD	Department of Defense
DoDI	Department of Defense Instruction
DoT	Department of Transportation
FB	field blank
FD	field duplicate
FS	Feasibility Study
ft	feet/foot
FTA	Fire Training Area
GCDA	Golf Course Drainage Area
GPS	Global Positioning System
HDPE	High Density Polyethylene
IDW	Investigation-Derived Waste
in	inch/inches
IRP	Installation Restoration Program
ISWPA	Installation Specific Work Plan Addendum
LC/MS/MS	Liquid Chromatography and Tandem Mass Spectrometry
LOD	Limit of Detection
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NYSDEC	New York State Department of Environmental Conservation

OSRTI	Office of Superfund Remediation and Technology Innovation
OU	Operable Unit
OWS	Oil/Water Separator
PAL	Project Action Limit
PARC	Plattsburgh Airbase Redevelopment Corporation
PFBS	Perfluorobutanesulfonic Acid
PFC	Perfluorinated Compound
PFHpA	Perfluoroheptanoic Acid
PFHxS	Perfluorohexanesulfonic Acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PHA	Provisional Health Advisory
PPE	Personal Protective Equipment
QAPP	Quality Assurance Project Plan
QC	Quality Control
QPP	Quality Program Plan
RI	Remedial Investigation
SAC	Strategic Air Command
SIR	Site Investigation Report
SOP	Standard Operating Procedure
UCM	Unregulated Contaminant Monitoring
UCMR3	UCM Rule Number 3
UFP	Uniform Federal Policy
URS	URS Corporation
USAF	United States Air Force
USEPA	United States Environmental Protection Agency
WSA	Weapons Storage Area
WSADA	Weapons Storage Area Drainage Area

EXECUTIVE SUMMARY

This Site Investigation Report (SIR) presents information regarding the perfluorinated compound (PFC) release determination activities at former Plattsburgh Air Force Base (AFB), Fire Training Area (FTA) site FT002P[1]. This site investigation is part of a United States Air Force (USAF)-wide initiative to assess the presence of PFCs at Base Realignment and Closure (BRAC) installations in accordance with Department of Defense (DoD) Instruction (DoDI) 4715.18, Emerging Contaminants (DoD, 2009). The 2012 Interim USAF Guidance on Interim Sampling and Response Actions for PFCs at Active and BRAC Installations (USAF, August 2012) guided the BRAC site investigation. Based on these guidelines, the USAF is undertaking a systematic approach to evaluating FTAs that were operable between 1970 and 2000.

PFCs are a class of synthetic fluorinated chemicals used in many industrial and consumer products, including non-stick cookware, food packaging, waterproof clothing, fabric stain protectors, lubricants, paints, and firefighting foams such as aqueous film forming foam (AFFF). In 1970, the USAF began using AFFF to extinguish petroleum fires. Releases of AFFF to the environment routinely occurred during fire training exercises. From the early 1970s until 2002, DoD purchased and used AFFF containing perfluorooctanesulfonic acid (PFOS) and/or perfluorooctanoic acid (PFOA) for firefighting and firefighting training.

In 2009, the USEPA Office of Water issued Provisional Health Advisories (PHAs) for two PFCs, PFOS and PFOA, to protect humans from potential risk of exposure to PFOA and PFOS through drinking water (USEPA, 2009). PHAs represent reasonable, health-based hazard concentrations above which action should be taken to reduce exposure to these contaminants in drinking water. Per the USEPA, PHAs are not to be construed as legally enforceable federal standards and are subject to change as new information becomes available (USEPA, 2012). The PHAs for PFOS and PFOA are 0.2 micrograms per liter (µg/L) and 0.4 µg/L respectively. The State of New York does not currently regulate PFCs.

This site investigation is a voluntary action by the USAF to assess the presence or absence of PFCs at the former Plattsburgh AFB FTA in soil, groundwater, surface water, and sediment. This work was performed in accordance with the Installation Specific Work Plan Addendum (ISWPA) (AMEC Environment & Infrastructure, Inc. [AMEC], September 2014) and General Quality Program Plan (QPP) (AMEC, July 2014). In the absence of Federal or State regulatory standards for PFCs, the General QPP and the ISWPA utilize Project Action Limits (PALs) for PFOS and PFOA based on the USEPA PHAs (0.2

[1] The former FTA historically has been addressed under the Installation Restoration Program (IRP) using site designation FT002. To manage and administer PFC-related site investigation, characterization, and mitigation activities, the USAF has defined the site with a new identification that adds a "P" to the IRP side identification. The corresponding site identification (i.e. FT002P) is used throughout this document. The P designator identifies the PFC component to this project and separates this work as an exclusive entity from other work that may have been done within the FTA in the past. For the purposes of this PFC site investigation, FT002P consists of the areas covered in the Fire Training Area Source OU and FTA/Industrial Area Groundwater OU.

µg/L PFOS and 0.4 µg/L PFOA in groundwater and surface water) and USAF-calculated screening values derived from Office of Superfund Remediation and Technology Innovation (OSRTI) residential and direct contact criteria (5 milligrams per kilogram [mg/kg] PFOS and 12 mg/kg PFOA in soil and sediments).

Between the 1950s and 1989, firefighting training activities at the base were conducted at the FT002P site located approximately 500 feet (ft) west of the runway and 500 ft from the western base boundary. This FTA consisted of four fire training pits, each 50 to 100 ft in diameter, located within an approximately 8-acre area (URS Corporation [URS], June 2001).

Prior conceptual site models (CSMs) for IRP sites did not account for releases of AFFF at the FTA and other potential sources of PFCs. Geology at the former installation consists of sand, clay, till, and bedrock strata. At the FT002P site, the lithology is sand down to approximately 85 ft below ground surface (bgs). Clay deposits are encountered below the sand unit, at approximately 85 to 90 ft bgs. The clay layer increases in thickness moving to the west from the FT002P to the base boundary. Glacial till, is found below the clay layer at approximately 90 to 120 ft bgs. Bedrock is present at a depth of approximately 120 ft bgs at the FT002P site and outcrops along the eastern boundary of the former installation near the golf course (URS, June 2001).

The investigation area has two distinct surface water drainage areas (i.e., Weapons Storage Area [WSA] Drainage Area [WSADA] and Golf Course Drainage Area [GCDA]) that collect surface runoff, groundwater discharge, and water from groundwater collection trenches and the FT002 Groundwater Operable Unit (OU) Treatment Plant effluent. The WSA drains to the south towards the Salmon River, while the GCDA drains to the east towards Lake Champlain. Regional groundwater flow within the unconsolidated aquifer is generally east to southeast towards Lake Champlain (URS, June 2001).

This SIR documents the sampling that was conducted from 29 September 2014 to 10 October 2014 and consisted of the following:

- 8 Soil borings and 60 soil samples,
- 22 Groundwater samples,
- 2 Groundwater treatment plant samples (influent and effluent), and
- 10 Surface water and 9 sediment samples.

All samples were analyzed for the following six PFCs:

- PFOS,
- PFOA,
- Perfluorohexanesulfonic acid (PFHxS),
- Perfluoroheptanoic acid (PFHpA),

- Perfluorononanoic acid (PFNA), and
- Perfluorobutanesulfonic acid (PFBS).

PFHxS, PFHpA, PFNA, and PFBS do not have PALs. Therefore only the results of PFOS and PFOA are discussed in detail and shown on figures in the SIR.

The concentration of PFOS and PFOA in soil samples from the eight borings sampled at the FT002P were below PALs.

The groundwater sampling program included the collection of water samples for PFC analysis from 22 existing monitoring wells. Groundwater exceeded the PAL for PFOS in 9 of the 22 samples and exceeded the PAL for PFOA in 3 of the 22 samples.

PFOS and PFOA are present in concentrations exceeding their PALs in groundwater collected by the Runway Collection Trench (influent) and in the treated water from the Groundwater OU Treatment Plant (effluent) that is discharged into the unnamed stream north of the former WSA. The influent and effluent concentrations are similar indicating they are being collected but not removed by the current groundwater treatment system. In addition, PFBS, PFHpA, and PFHxS were detected in both the influent and effluent samples.

PFCs were also detected in surface water. Concentrations of PFOS in surface water at nine locations exceeded the PAL and concentrations of PFOA in one of the surface water samples exceeded the PAL. Surface water in the GCDA at the eastern base boundary and the farthest sample collected downstream in the WSADA contained PFOS that exceeded the PAL. It appears that PFOS and PFOA are being discharged into the surface water from groundwater collection trenches and groundwater treatment systems. It is also likely that PFOS impacted groundwater may be discharging directly to the water bodies in the GCDA. Further, it is suspected but not confirmed that PFCs may be infiltrating from groundwater into the storm sewers in the southern flightline area and ultimately discharged to the water bodies in this area.

Based on results of this site investigation, additional investigation is recommended to evaluate potential human exposure pathways in accordance with the Interim PFC Guidance (USAF, August 2012).

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1.0 INTRODUCTION

This Site Investigation Report (SIR) presents information regarding perfluorinated compound (PFC) release determination activities at former Plattsburgh Air Force Base (AFB), Fire Training Area (FTA) site FT002P[1]. This SIR has been prepared under Contract No. FA8903-08-D-8766, Task Order 0177 between Amec Foster Wheeler Environment & Infrastructure, Inc., (Amec Foster Wheeler) and the Air Force Civil Engineer Center (AFCEC). This site investigation is part of a United States Air Force (USAF)-wide initiative to assess the presence of PFCs at Base Realignment and Closure (BRAC) installations in accordance with Department of Defense (DoD) Instruction (DoDI) 4715.18, Emerging Contaminants (DoD, 2009). The 2012 Interim USAF Guidance on Interim Sampling and Response Actions for PFCs at Active and BRAC Installations (USAF, August 2012) guided the BRAC site investigation.

This work was performed in accordance with the General Quality Program Plan (QPP) (AMEC Environment & Infrastructure, Inc. [AMEC], July 2014) and the Installation Specific Work Plan Addendum (ISWPA) (AMEC, September 2014). These documents were prepared using the Uniform Federal Policy (UFP) Quality Assurance Project Plan (QAPP), United States Environmental Protection Agency (USEPA) guidance (USEPA, March 2012), and AFCEC protocols. The New York State Department of Environmental Conservation (NYSDEC) approved the ISWPA without comment on 28 August 2014. The USEPA provided minimal comments on 15 September 2014, which were addressed through email correspondence to the USEPA's satisfaction.

1.1 PERFLUORINATED COMPOUNDS OVERVIEW

PFCs are a class of synthetic fluorinated chemicals used in many industrial and consumer products, including non-stick cookware, food packaging, waterproof clothing, fabric stain protectors, lubricants, paints, and firefighting foams such as aqueous film forming foam (AFFF). In 1970, the USAF began using AFFF to extinguish petroleum fires. From the early 1970s until 2002, the DoD purchased and used AFFF containing perfluorooctane sulfonic acid (PFOS) and/or perfluorooctanoic acid (PFOA) for firefighting and firefighting training. Releases of AFFF to the environment routinely occurred during fire training exercises (USAF, August 2012). Additionally, a wide range of materials used by the general public are potential sources for the release of PFCs to the environment.

[1]The former FTA historically has been addressed under the Installation Restoration Program (IRP) using site designation FT002. To manage and administer PFC-related site investigation, characterization, and mitigation activities, the USAF has defined the site with a new identification that adds a "P" to the IRP side identification. The corresponding site identification (i.e. FT002P) is used throughout this document. The P designator identifies the PFC component to this project and separates this work as an exclusive entity from other work that may have been done within the FTA in the past. For the purposes of this PFC site investigation, FT002P consists of the areas covered in the Fire Training Area Source OU and FTA/Industrial Area Groundwater OU.

1.2 REGULATORY FRAMEWORK

The Safe Drinking Water Act includes a process that USEPA must follow to identify and list unregulated contaminants that may require a national drinking water regulation in the future. Two primary methods used by the USEPA to evaluate contaminants in drinking water are the Contaminant Candidate List (CCL) and Unregulated Contaminant Monitoring (UCM) Programs. PFOS and PFOA are included on the USEPA Contaminant Candidate List Number 3 (CCL3) and are part of the UCM Rule Number 3 (UCMR3), which require monitoring by public water systems to evaluate the presence of these compounds in the water supply.

In 2009, the USEPA Office of Water issued Provisional Health Advisories (PHAs) for two PFCs, PFOS and PFOA, to protect humans from potential risk of exposure to PFOS and PFOA through drinking water (USEPA, 2009). According to the 2012 Edition of the Drinking Water Standards and Health Advisories (USEPA, 2012), the PHAs are informal technical guidance to assist Federal, State, and local officials in response to drinking water contamination. PHAs represent reasonable, health-based hazard concentrations above which action should be taken to reduce exposure to these contaminants in drinking water. Per the USEPA, PHAs are not to be construed as legally enforceable federal standards and are subject to change as new information becomes available (USEPA, 2012). The PHAs for PFOS and PFOA are 0.2 micrograms per liter (µg/L) and 0.4 µg/L respectively. The State of New York does not currently regulate PFCs.

Under the DoDI 4715.8, the USAF considers PFOS and PFOA to be emerging contaminants because (1) they may have been released to the environment, (2) they present a potential unacceptable human health or environmental risk, and (3) regulatory standards are evolving. For the purpose of release determination, the USAF adopted the USEPA PHAs as thresholds to assess whether a release to groundwater or surface water has occurred.

1.3 PROJECT OBJECTIVES

The USAF Interim PFC Guidance outlines a systematic evaluation process that begins with assessing FTAs that were operable between 1970 and 2000. This site investigation is a voluntary action by the USAF to assess the presence or absence of PFCs in soil, groundwater, surface water, and sediment at the former Plattsburgh AFB FTA (FT002P). In the absence of Federal or State regulatory standards for PFCs, the General QPP and the ISWPA utilize Project Action Limits (PALs) for PFOS and PFOA. **Table 1-1** identifies the PALs for PFCs assessed in the site investigation. The USEPA PHAs for PFOS and PFOA were adopted for groundwater and surface water. The PALs used for soil and sediment were taken from the USAF Interim PFC Guidance and are screening values calculated by the USAF based on the USEPA Office of Superfund Remediation and Technology Innovation (OSRTI) sub-chronic toxicity criteria, using default residential and direct contact parameters for the USEPA's Regional Screening Level calculator. The remaining PFCs do not have established PALs.

The specific objectives of this investigation, as stated in the ISWPA, were to:

- Assess whether there are PFCs in surface soil, subsurface soil, and groundwater at FT002P from past use of AFFF at the site for firefighting training.
- Assess whether there are PFCs in groundwater that have migrated downgradient, following a similar path as the previously identified FT002 Groundwater Operable Unit (OU) plume.
- Assess whether PFCs are present in groundwater collected by the Runway Collection Trench and the treated water from the Groundwater OU Treatment Plant that is discharged into the unnamed tributary north of the former Weapons Storage Area (WSA) that discharges to the Salmon River.
- Assess whether PFCs are present in surface water and sediments associated with the Groundwater OU Treatment Plant discharge.
- Assess whether PFCs are present in combined groundwater collected by the East Flightline Trench and Idaho Avenue Trench that discharge into the Golf Course Drainage Area (GCDA).
- Assess whether PFCs are present in surface water and sediments associated with the East Flightline Collection Trench and Idaho Avenue Collection Trench that discharge into the GCDA.

All samples were analyzed for six PFCs, however, PFHxS, PFHpA, PFNA, and PFBS do not have PALs. Therefore only the results of PFOS and PFOA are discussed in detail and presented on figures in the SIR. The SIR discusses and provides a comparison of PFOA and PFOS analytical results to the PALs. **Table 1-1** identifies PALs for PFOS and PFOA for groundwater, surface water, soil, and sediment.

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2.0 SITE DESCRIPTION AND OPERATIONAL HISTORY

The former Plattsburgh AFB is located at approximately N 44°39'14'' latitude, W 73°27'56'' longitude in Plattsburgh, New York (**Figure 2-1**). The installation was in operation from 1954 to 1995 and formerly occupied approximately 3,447 acres.

In 1954, the USAF announced plans to build an air base in Plattsburgh, New York. Groundbreaking for the Strategic Air Command (SAC) base was held in 1954 and the 380th Bombardment Wing, Medium, was activated in July 1956 which included three B-47 squadrons and a KC-97 refueling squadron (EC Jordan, 1990).

In 1964, the B-47 force was augmented by Atlas missiles as the 380th became a Strategic Aerospace Wing. Both the Atlas missile and the B-47 were eventually phased out and the 380th became a Bombardment Wing again in 1966, this time flying the B-52G. The B-52s were moved to Fairchild AFB, Washington, in 1971, and the first FB-111 arrived in July 1971 (E.C. Jordan, 1990). In 1991, the Bombardment Wing was removed and operations were realigned to form the 380th Refueling Wing. Plattsburgh AFB was closed on 30 September 1995 as part of the third round of base closures under the Defense BRAC (Plattsburgh Airbase Redevelopment Corporation [PARC], 2014)

Between the 1950s and 1989, firefighting training activities at the installation were conducted at FTA site FT002P, an approximately 8 acre area located approximately 500 feet (ft) east of the western installation boundary and 500 ft west of the runway. The FTA consisted of four fire training pits (Pit # 1 through Pit # 4), each measuring 50 to 100 ft in diameter (**Figure 2-2**). Prior to 1980, the fire pits were unlined and consisted of sand and gravel. During training exercises, waste fuel would be dumped on the ground and ignited and AFFF was applied to put out the fire. This training facility was not constructed to prevent infiltration of the firefighting foam and the combustion products into the environment. In addition to the four fire training pits, a "suspected spill/burn area" was present at the FTA and located north of the pits. An oil/water separator (O/WS) was also present at the FTA located immediately south of Pit # 4 (Radian, 1985).

After 1980, two active fire training pits (Pit # 2 and Pit # 3) were retrofitted with cement-stabilized soil (USAF, March 2001). Weekly fire training exercises consisted of filling a lined fire pit with approximately 10,000-gallons of water, then adding 75- to 100-gallons of fuel to the water and igniting the fuel. The fire was extinguished with water, and then re-ignited and extinguished four or five more times. Residual unburned fuel may have totaled 30- to 40-gallons a day, and may have seeped into the ground through leaks in the liner (Radian, April 1985).

Because of the complex nature of the FTA site, investigation and remediation has been executed using an OU approach, dividing the site into an FTA Source OU that focuses on contaminated soil and free product, and a Groundwater OU that focuses on contaminated groundwater. A Remedial Investigation/Feasibility Study (RI/FS) was completed for the FTA/Industrial Area Groundwater OU (URS Corporation [URS], June 2001). The RI/FS report documented the FTA/Industrial Area Groundwater OU

plume that originated at the FT002 Source Area site and extended southeast across the installation. URS recommended that a series of extraction wells, collection trenches, and treatment systems be installed to capture and treat the plume and that institutional controls be set in place. **Figure 2-2** and **Figure 2-3** present the components of this remedy and include the FTA Source OU Treatment Plant (operational from 1993 to 2008), Groundwater OU Treatment Plant (operational from 2004 to current), groundwater extraction wells (EW-1 through EW-5), gravity main, discharge pipe, Runway Collection Trench, East Flightline Collection Trench, Idaho Avenue Collection Trench, and an aeration pond for treatment of discharge from the East Flightline Collection Trench (URS, June 2013). The extent of the groundwater contamination in both 2001 and 2012 is shown on **Figure 2-3.**

3.0 PRELIMINARY CONCEPTUAL SITE MODEL

The information in this section is based on a review of historical information and regional information and does not include information obtained during this investigation. Several figures were reviewed from the URS RI/FS (URS, June 2001) to assist in developing this conceptual site model (CSM) and are included in **Appendix A**. Note that not all aspects of the historical CSM were revisited as part of scope of this SIR.

3.1 FACILITY PROFILE

FT002P source area is situated on approximately 8 acres and was used for fire training exercises which involved the use and release of AFFF. The FTA/Industrial Area Groundwater OU plume covers an area of approximately 980 acres.

3.2 PHYSICAL PROFILE

The former Plattsburgh AFB is relatively flat with a topographic depression to the south-southeast of the FT002P soured area. Unpaved areas of the installation, including the FTA, consist of open grassland and forest, with some areas of wetland vegetation in and around drainage ways.

3.2.1 Geology

Geology at the former Plattsburgh AFB consists of sand, clay, till, and bedrock strata. This general geologic section is shown on a cross section in **Appendix A**. At the FT002P site, surficial deposits are found from the ground surface down to 85 ft below ground surface (bgs) and consist of poorly-graded, medium-to-fine sand with trace to some silt and dark mineral laminations. The sand is interpreted as near-shore marine delta beach deposits. The sand unit reportedly thins to the east, with a thickness of less than 10 ft, at the eastern base boundary (URS, June 2001).

Deep marine deposits (clay) are encountered below the sand unit, at approximately 85 to 90 ft bgs. The clay layer increases in thickness moving to the west from the FT002P site to the base boundary. Glacial till, consisting of well-graded clay and silt-sized particles to gravel is found below the clay layer at 90 to 120 ft bgs (URS, June 2001).

Bedrock is encountered at approximately 120 ft bgs at the FT002P site and its depth varies across the former installation with surface outcroppings along the eastern boundary. Bedrock is composed of limestone and dolomite with interbedded layers of sandstone and shale. Fault zones have been mapped along the bedrock outcroppings in the vicinity of the golf course (URS, June 2001). **Appendix A** contains a bedrock features figure.

3.2.2 Surface Water

The area of this investigation has two distinct surface water drainages that receive surface runoff, groundwater discharge, water from groundwater collection trenches and discharge for the Groundwater

OU Treatment Plant effluent. The drainage areas are identified as the GCDA and the WSA Drainage Area (WSADA) and are shown on **Figure 2-2.**

The GCDA consists of storm drains from the parking ramps and former base industrial area, Idaho Avenue Collection Trench, East Flightline Collection Trench, an aeration pond, drainage ditches, small streams, and artificial ponds at the golf course. These all merge into one stream (unnamed) that goes beyond the installation boundary to the east and discharges into Lake Champlain (URS, June 2001).

The WSADA consists of storm drains from the runway, landfills, and treated groundwater from the Groundwater OU Treatment Plant (operational from 2004 to current), which discharge into an unnamed stream. This unnamed stream received discharge from the FTA Source OU Groundwater Treatment Plant while it was operational from 1993 to 2008. This unnamed stream flows into the Salmon River (URS, June 2001).

3.2.3 Groundwater/Hydrogeology

Regional groundwater flow within the unconsolidated aquifer from FT002P is generally east to southeast towards Lake Champlain. Groundwater at the northern end of the airfield and former alert area flows north to northeast. A groundwater divide (an approximate north-south trending ridge) bisects the flight apron. Groundwater flow on the west/northwest side of the ridge, encompassing the middle of runway/flightline to the southern extent of the runway, is to the southwest towards WSADA and south towards the Salmon River. Groundwater flow on the eastern side of the runway/flightline apron (eastern side of the ridge) is to the east toward the GCDA and Lake Champlain. Overburden groundwater potentiometric contours from December 2012, as generated by URS, are shown on **Figure 3-1**. Installation-wide groundwater potentiometric contours for the unconfined aquifer, as generated by URS in 2001, are shown in **Appendix A** and illustrate the historical groundwater flow pathways from the FTA site and their relationship with other natural and cultural features

Within the GCDA, shallow groundwater discharges to wetlands, drainage channels and ponds, and ultimately into Lake Champlain. Storm drains in the southern portion of the flightline industrial area are below the shallow water table and are subject to infiltration.

The overburden aquifer is unconfined and the hydraulic conductivity at the installation ranges from $1.8x10^{-2}$ centimeters per second (cm/sec) to $2.9x10^{-2}$ cm/sec. The hydraulic gradients are variable locally and range from 0.003 to 0.070 ft per ft.; however, gradients across large sections of the installation tend to be on the order of 0.005 to 0.010 ft per ft. (URS, June 2001).

3.3 RELEASE PROFILE

PFCs had the potential to be released during fire training exercises that involved the use of AFFF via direct infiltration into the pits. Fire training exercises that used AFFF contained PFCs, which may have infiltrated and become absorbed to soils. PFCs may also have percolated to the overburden water table and infiltrated into the underlying storm sewer. Groundwater flows to the east and southeast toward

Lake Champlain with component of flow to the south toward the Salmon River. The groundwater is intercepted by several groundwater collection trenches that were installed downgradient of the FT002P source area. The Runway Collection Trench and Gravity Main collect groundwater which is treated at the Groundwater OU Treatment Plant which discharges to an unnamed stream that flows to the Salmon River. The East Flightline Collection Trench collects groundwater and discharges it to an aeration pond which flows into an unnamed stream that flows to Lake Champlain. The Idaho Avenue Collection Trench collects groundwater and discharges it directly to another portion of the GCDA, which flows into an unnamed stream that flows to Lake Champlain. Based on a review of the storm drain locations and elevations **(Appendix A)**, it is possible that groundwater also infiltrates into storm drains that discharge into the unnamed streams.

3.4 POTENTIAL RECEPTORS

Since closure in 1995, portions of the former base have been subdivided and sold to various entities, with the transfer of the former base's remaining property occurring in 2012. PARC, the local authority responsible for managing redevelopment, currently boasts more than 60 tenants in the fields of aerospace, rail transportation, market research, manufacturing, warehousing and health care (PARC, 2014). The former base is also home to Plattsburgh International Airport, a multi-purpose airport servicing passengers in nearby Montreal, Vermont and Lake Placid. Land use is not expected to change in the future. Potential receptors associated with current and future land use that might come into contact with PFCs in soils include: ground maintenance workers, utility workers, industrial workers, construction workers and biota.

Groundwater flow direction is to the east, southeast. A possible receptor includes downgradient private drinking water wells. Groundwater likely discharges to the unnamed streams, in the two primary drainages. Receptors that could come into contact with PFCs include biota and recreational anglers.

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4.0 SAMPLING ACTIVITIES

Sample media evaluated included surface/subsurface soils (vadose zone in the FT002P source area) groundwater, groundwater treatment system influent and effluent, surface water, and sediment.

Sampling activities followed the QPP (AMEC, July 2014) and the ISWPA (AMEC, September 2014). Standard operating procedures (SOPs) and protocols used in conducting this investigation were derived from, or were in accordance with, USEPA guidance documents. Field sampling plans in the form of addenda to the project QPP were generated detailing the activities to be conducted at FT002P. The NYSDEC approved the ISWPA without comment on 28 August 2014. The USEPA provided minimal comments on 15 September 2014, which were addressed through email correspondence to the USEPA's satisfaction.

The following data collection activities were completed to achieve the project objectives:

- Collection and laboratory analysis of 60 soil samples from 8 soil borings drilled at FT002P where firefighting training occurred and AFFF was likely to have been used;
- Collection and laboratory analysis of 22 groundwater samples from wells within the former FTA footprint as well as downgradient within and beyond the identified Groundwater OU plume;
- Collection and laboratory analysis of 2 water samples from the Groundwater OU Treatment Plant (influent and effluent); and
- Collection and laboratory analysis of 10 surface water and 9 sediment samples, at and downstream of current and historical groundwater treatment plant discharges and collection trench discharge points.

4.1 PRE-SAMPLING ACTIVITIES

A site visit was held at the former Plattsburgh AFB on 27-28 August 2014. The purpose of this visit was to (1) familiarize Amec Foster Wheeler personnel with the site layout; (2) locate and stake all sampling locations including existing monitoring wells, proposed surface water/sediment sampling locations, and soil boring locations; and, (3) begin the airfield access badging application process for the Amec Foster Wheeler field team. Amec Foster Wheeler met with Plattsburgh International Airport management staff to begin background checks for field crew and confirmed security access/requirements and logistics for working on the airfield. Prior to field mobilization, Dig Safely New York was contacted to provide utility clearance for the proposed borings at FT002P.

4.2 ENVIRONMENTAL SAMPLING

Sampling of soil, sediment, surface water, groundwater, and the influent/effluent from the Groundwater OU Treatment plant was conducted from 29 September to 10 October 2014. A summary of the field sampling activities is provided in **Table 4-1** and are described in the following sections. A photograph log documenting investigation activities is provided in **Appendix B**. Site investigation field forms are

provided in **Appendix C** and include Daily Health and Safety Tailgate Forms (C-1), Daily PFC Checklists (C-2), Water Quality Meter Calibration Forms (C-3), Sample Collections Logs (C-4), and Drilling Logs (C-5).

4.2.1 Soil Boring Advancement/Abandonment and Soil Sampling

Field exploration consisted of drilling eight borings at the locations shown on **Figure 4-1**. The borings were drilled by New Hampshire Boring of Derry, New Hampshire, from 6-8 October 2014, using direct-push technology. A Geoprobe 6610DT equipped with a Macrocore™ sampler, approximately 2.5-inch (in) outside diameter and 5 ft long, was used for soil boring advancement. The Macrocore™ sampler was lined with a new acetate sleeve for each 5-ft soil core.

The first 5 ft of each borehole was cleared using a hand auger to ensure that no utility lines were present. Soil cores were collected continuously to 40 ft bgs or until the water table was encountered. Soil samples were collected for PFC analysis, Liquid Chromatography and Tandem Mass Spectrometry (LC/MS/MS) approximately every 3 to 5 ft, starting at the ground surface. Soil borings were screened with a photoionization detector to determine if there were volatile organic compounds in the soil. Soils were logged according to SOPs provided in the QPP (AMEC, July 2014). Soil samples were collected and placed in a stainless steel bowl, then mixed with a stainless steel spoon to prepare a composite sample at each depth. Bowls and spoons were decontaminated with an alconox/PFC free water scrub and PFC-free water rinse. Disposable gloves were changed in between collecting each sample to prevent cross-contamination. All samples were placed in a pre-labeled high density polyethylene (HDPE) sample bottle for transport to the analytical laboratory. Soil sample collection logs were completed for each location and are provided in **Appendix C-4**. A global positioning system (GPS) was used to locate each sample point for accuracy.

Borehole locations were backfilled using soil cuttings from each hole, supplemented by bentonite chips as required to complete the backfilling.

A drilling log documenting the soil lithology was compiled for each soil boring completed during this investigation. Copies of the drilling logs are provided in **Appendix C-5**. Based on soil logs, two geologic cross sections were created. The cross section orientations are shown on **Figure 4-1** and the cross sections are provided on **Figure 4-2**. The geologic strata at FT002P begin with a fill layer that extends from the ground surface to a depth of approximately 5-10 ft bgs. Below the fill layer are fine to medium sands with some silt. The drilling subcontractor constructed a temporary decontamination pad to decontaminate the downhole equipment between each soil boring. Fluids produced during the decontamination process were containerized and disposed of in a catch basin which leads to the Groundwater OU Treatment Plant.

4.2.2 Surface Water/Sediment Sampling

Surface water samples were collected at 10 locations as shown on **Figure 4-3.** Surface water samples were collected in a stainless steel cup attached to an extension pole or dipped directly into the water body and placed in a HDPE sample bottle for transport to the analytical laboratory. Surface water field parameters were collected and are tabulated on **Table 4-2.** Sample collection logs were completed for each surface water sample location and are provided in **Appendix C-4**. A GPS unit was used to survey each sample location.

Sediment samples were collected at 9 locations as shown on **Figure 4-3**. Sediments were collected with a stainless steel bowl, spoon, and/or stainless steel cup attached to an extension pole. The sediments were placed in the bowl, logged, mixed, and then placed in a pre-labeled HDPE sample bottle for transport to the analytical laboratory. Sample collection logs were completed for each sediment sampling location and are provided in **Appendix C-4.** A GPS unit was used to locate each sample point. The sediments were primarily fine to coarse sands in the streams and catch basins, with silt the primary constituent in the aeration pond sample. The individual sample locations and their characteristics are described below:

The GCDA consists of storm drains, the Idaho Avenue Collection Trench, the East Flightline Collection Trench, small streams, and artificial ponds at the golf course. These all merge into one unnamed stream that exits the facility to the east and discharges into Lake Champlain. The sample locations include IA-NORTH, SW-MNA-3A, EFEFF-1, Pond Inlet, Pond Outfall and SW-MNA-1. These locations are previously established monitoring points that are currently or past monitoring points for the FTA/Industrial Area Groundwater OU remedy discharge.

- IA-NORTH is a manhole that serves the Idaho Avenue Groundwater Collection Trench. The water flows from the northern portion of the Idaho Avenue Groundwater Collection Trench into the manhole then continues south in the collection trench. The sediments at this location were fine to coarse sands with very little silt and were collected at a low spot in the manhole junction box.
- SW-MNA-3 is located south of IA-NORTH along the same drainage. The sample was collected in a depositional area at a bend in the stream. The sediments at this location consisted of fine to coarse sands with some silt.
- EFEFF-1 is a manhole that accesses the East Flightline Collection Trench. The groundwater enters this location and is redirected to the pond inlet. There was no sediment present at this location, so no sediment sample was collected.
- The Pond Inlet is located at the headwater of the aeration pond and receives discharge from the East Flightline Collection Trench and stormwater discharge from the airfield area that empties

into the same catch basin/manhole as EFEFF-1. The combined drainage enters the aeration pond through a weir. The sediments at this location were fine to coarse sands.

- The Pond Outfall is located at the tail water of the aeration pond. The flow at this location is held back by a dam. The sediments consisted of black muck, silt, and some organic material. Sediments in this area could be routinely stirred up through the aeration process, settle out, and remain here impounded by the dam.
- SW-MNA-1 is located along the installation boundary in the unnamed stream that flows to the east and discharges into Lake Champlain. The sample location is approximately 500 ft downstream of where the two drainages merge. The sediments at this location were fine to coarse sand and little silt.

The WSADA consists of storm drains from the runway, Landfill 23, and the groundwater from the Groundwater OU Treatment Plant. These combine into an unnamed stream that flows into the Salmon River. The sample locations include FT002P-009, FT002P-010, FT002P-011, and FT002P-012.

- FT002P-009 is located in a small culvert that was once the FTA Source OU Groundwater Treatment Plant discharge point. This location is primarily an outfall that discharges drainage from the area between the runway and aircraft apron. The drainage pipe area is overgrown with phragmites and was covered in silt and organic debris. The discharge pipe could not be located, so the sample was collected from surface water in the vicinity of the assumed location of the pipe. The sediments were fine to coarse sand, little silt, and some organic material.
- FT002P-010 is located at the discharge point for the Groundwater OU Treatment Plant. The sediments at this location were silt, mud, and organics. The flow from the groundwater treatment system was steady.
- FT002P-011 is located approximately 500 ft downstream of the discharge point for the Groundwater OU Treatment Plant. The sediment samples consisted of coarse sands. The surface water flow at this location was steady.
- FT002P-012 is located at the bridge in the WSA, located approximately 4500 ft downstream of the discharge point for the Groundwater OU Treatment Plant, and the most downgradient sample collected in the unnamed stream. The sediments were fine to coarse sands with little silt. The sample was collected from a depositional area at a bend in the stream.

4.2.3 Groundwater OU Treatment Plant Influent/Effluent Sampling

Influent and effluent samples were collected from the Groundwater OU Treatment Plant. The treatment plant receives groundwater impacted with chlorinated hydrocarbons from the Groundwater OU and discharges the treated effluent to the unnamed stream. The treatment system was designed to treat the impacted groundwater through the use of venturi air strippers. Liquid-phase granular

activated carbon treatment is not part of the treatment train. The influent and effluent samples were collected from inside the Groundwater OU Treatment Plant building. A plant layout, including the sampling locations, is provided in **Appendix A**. Sample locations are also documented in the photograph log **(Appendix B)**. These samples were assigned location identifications of FT002P-013 (influent) and FT002P-014 (effluent).

4.2.4 Groundwater Sampling

Groundwater level measurements were collected in the wells sampled during this investigation prior to groundwater sampling. **Table 4-3** contains the depth to water measurements, the calculated elevation of the groundwater surface, and the screened intervals for the monitoring wells sampled. In general, the elevations collected as part of this 2014 investigation were relatively consistent with the water levels used to generate the 17 December 2012 groundwater contour levels presented on **Figure 3-1.** The 2012 contours were generated using a more comprehensive and spatially extensive group of monitoring wells. The 2014 groundwater elevations were plotted and compared to the 2012 groundwater levels and yielded the same general contour configuration. Therefore, this figure is a reasonable approximation of the current groundwater flow directions.

At the FT002P site, depth to groundwater is approximately 45 ft bgs. The depth to groundwater decreases to the south and east with groundwater at MW-GWOU-23 (located near the East Flightline Collection Trench) being measured at approximately 5 ft bgs and groundwater south and east of the Groundwater OU plume boundary, being recorded at approximately 4 ft bgs.

The groundwater sampling program included the collection of groundwater samples for laboratory chemical analysis, from 22 existing monitoring wells shown on **Figure 4-4.** No new monitoring wells were installed as part of this program. One monitoring well, PRB-02 was redeveloped prior to sampling due to a buildup of grass and dirt. All other monitoring wells were found to be in good condition and were sampled without redevelopment. Samples were collected using low-flow groundwater sampling methods. HDPE tubing was cut to the lengths described in the ISWPA (AMEC, 2014) and attached to either a peristaltic, Proactive Hurricane or Geotech SS Geosub pump depending on the depth to water (**Table 4-4**). The tubing was attached to a flow-through cell to monitor pH, temperature, specific conductivity, dissolved oxygen, and oxidation/reduction potential. Turbidity was measured outside the cell by a separate turbidity meter. The water level and field parameters were monitored until stable as prescribed in ISWPA. Groundwater sampling information was documented on field groundwater sample collection logs, copies of which are provided in **Appendix C-4**. Stabilized field parameters for the groundwater samples are shown on **Table 4-4**. Samples bottles were filled directly from the discharge tubing after disconnecting from the flow-through cell. The purge water was discharged to the ground in the vicinity of the wells except for MW-02-017, MW-02-083, MW-GWOU-15, MW-GWOU-26, and MW-02-008. Purge water from these five wells was containerized and disposed of at the Groundwater OU

Treatment Plant because chlorinated hydrocarbons have been detected at these wells during past sampling events.

The groundwater sampling program was designed to characterize PFCs at FT002P, and in locations upgradient, and downgradient of the FTA. Downgradient locations were selected within and beyond the perimeter of the existing Groundwater OU plume. The following bullets summarize the location rationale for the wells selected for sampling.

- Upgradient wells - MW-22-003 and MW-22-008 are located upgradient of the FT002P fire training pits.
- Source area wells - MW-02-010, MW-02-017, MW-02-008, MW-GWOU-27, MW-GWOU-26, and MW-02-094 are located within the FT002P source area and were selected to determine if PFCs were present in groundwater near the various FT002P source areas as summarized below.
    - MW-02-010 and MW-02-017 - downgradient of the suspected burn/spill area.
    - MW-02-008, MW-GWOU-27, and MW-GWOU-26 - downgradient of Pit # 1.
    - MW-02-094 – downgradient of Pit # 2, Pit # 4 and the O/WS.
- Downgradient flightline area wells within the OU Groundwater plume:
    - MW-02-019, MW-GWOU-15, MW-GWOU-16, MW-02-083, MW-02-084, MW-02-073, MW-GWOU-23, and MW-11-08 - locations are within the existing Groundwater OU plume emanating from the FT002P area.
- Downgradient flightline area wells beyond the OU Groundwater plume:
    - MW-02-047 and MW-02-046 - beyond the northern perimeter of the Groundwater OU plume.
    - PRB-02 - beyond the southwest perimeter of the Groundwater OU plume.
    - MW-12-001R, MW-11-004, and PRB-15 - locations beyond the eastern and southern perimeter of the Groundwater OU plume.

4.3 DEVIATIONS FROM THE INSTALLATION SPECIFIC WORK PLAN ADDENDUM

The collection of a groundwater sample from MW-02-006 was proposed in the ISWPA; however, the pump would not fit down the well due to a slight bend in the casing. MW-02-094 was sampled as a substitute, as it was in close proximity and monitored the same hydrogeologic unit. All other samples were collected as described in the ISWPA.

The handling of investigation-derived waste (IDW) was revised based on agreements documented in email correspondence between AFCEC and NYSDEC and as approved by NYSDEC on 23 September 2014. **Section 4.5** below represents this approach in this agreement.

4.4 SURVEYING

A site survey was conducted with a GPS unit to locate each soil boring and surface water/sediment sampling location. The existing groundwater monitoring wells were not re-surveyed.

4.5 INVESTIGATION-DERIVED WASTE MANAGEMENT

IDW consisted of soil cuttings from soil boring advancement, groundwater sampling purge water, decontamination water, disposable personal protective equipment (PPE), and other trash. Soil cuttings were placed back in the boring as backfill. Decontamination water was temporarily containerized in a Department of Transportation (DoT) approved 55-gallon drum and then disposed of at the Groundwater OU Treatment Plant. Purge water from the monitoring well sampling was discharged to the ground surface in the vicinity of the well except for MW-02-017, MW-02-083, MW-GWOU-15, MW-GWOU-26, and MW-02-008, which were containerized and disposed of at the Groundwater OU Treatment Plant, based on historical chlorinated hydrocarbon concentrations detected in these monitoring wells. PPE and other trash were placed in plastic bags and placed into a sanitary trash container onsite and disposed of at a sanitary landfill.

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5.0 SAMPLING RESULTS

All samples were analyzed for PFOS, PFOA, PFHxS, PFHpA, PFNA, and PFBS in accordance with the QPP, ISWPA Interim PFC Guidance by Accutest Laboratories (Accutest), a DoD – Environmental Laboratory Accreditation Program accredited lab, located in Orlando, Florida. Accutest analyzed the samples for PFCs by LC/MS/MS.

5.1 DATA USABILITY

The validation of data from soil, groundwater, surface water, and sediment samples analyzed for six PFCs by LC/MS/MS was completed in November 2014. A description of the data validation scope, data validation procedures, and data validation observations and actions is presented in the data validation report in **Appendix D.** All data were deemed to be useable based on the data validation findings.

USEPA Stage 4 data validation was performed on 10% of the samples for each media, and USEPA stage 2B on the remaining samples. Field and equipment blanks were not validated as these samples were used to assess data usability for the field samples. The validation was performed following the logic identified in The Contract Laboratory Program Data Validation Functional Guidelines for Evaluating Organic Analyses (USEPA, June 2014).

A subset of results was qualified as estimated values (J/UJ) for reasons explained in **Appendix D**.

Qualifiers used in association with the final validated results include the following:

- U: The analyte was analyzed for, but was not detected above the reported limit of detection (LOD);
- J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample;
- UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

No results were qualified as rejected (R) during data validation. The estimated results will be discussed for each media in the following sections. Interpretations on the impact of the validation qualification actions on data usability will be included when appropriate.

Matrix spike/matrix spike duplicates (MS/MSDs), field blanks (FBs), and field duplicates (FDs) were analyzed for quality control measures. MS/MSD samples are analyzed to evaluate recovery of analytes in a specific sample matrix. FB samples are used to determine if sample collection, storage, preparation, and analysis systems produce false positive results due to field or lab contamination. FD samples are collected to evaluate method precision by the laboratory at the time of preparation and analysis and/or sampling precision at the time of collection. These quality control (QC) samples are used as data quality indicators during data validation, and evaluations from the data validation review are presented in

Appendix D.

5.1.1 Quality Control Blanks

Target analytes (PFOS, PFOA, PFHxS, PFHpA, PFNA, and PFBS) were not detected in laboratory method blanks or field and equipment blanks associated with groundwater, surface water, and sediment samples. These results indicate that no laboratory contamination or field contamination occurred during the collection or analysis of these media.

PFOS was detected at a concentration of 0.016 µg/L in one equipment blank (PLTSB-FT002P-BLK04) associated with soil samples. This detection is at a low concentration that is equal to the LOD for the water analysis. No other target analytes were detected in the other four soil field QC blanks in the data set. Because much higher concentrations of PFOS were reported in many soil samples, or PFOS was non- detect in samples, the detection in the field blank is not interpreted to impact the use of the soil results, and in general field QC blanks indicate that no significant field or lab contamination has impacted soil results.

5.1.2 Matrix Spike/Matrix Spike Duplicate

Laboratory MS/MSD analyses were performed on groundwater, surface water, sediment, and multiple soil samples. For sediment, recoveries were within the QPP-specified 70 to 130% limits and precision values were less than the QPP-specified maximum of 30% indicating good accuracy and precision. The majority of the target analytes in groundwater, surface water, sediment, and soil samples had acceptable recoveries indicating good accuracy for most results. Some target analyte results in the groundwater (effluent), surface water, and soil samples were qualified as estimated values due to low or high recoveries. The lowest recovery reported was 29% and the highest was 175% in spike recovery results that were considered usable (Some spike recovery data are not usable due to very high concentrations observed in the original spike sample as discussed in **Appendix D**). Therefore, the estimated concentrations should be within approximately ±2-3 times the reported values. The following sample results are estimated due to MS/MSD results:

<u>Surface Water</u>

- Surface water sample PLTSB-SW-006: PFHxS and PFOS J qualified with potential high bias (J-MSH).
- Surface water sample PLTSB-SW-002 (and field duplicate PLTSB-SW-003): PFOA J qualified with potential low analytical bias (J-MSL) and PFOS J qualified with potential high analytical bias (J-MSH).

Matrix spike data indicate a potential high bias for the PFOS. PFOS was detected in all surface water samples. Most reported concentrations were above the PAL of 0.2 µg/L. Some values are near the PAL and there is uncertainty regarding the values relative to the PAL due to the potential high bias. However a subset of sample results from the Pond and SW-MNA-1 (PLTSB-SW-008, -009, and -010) are

approximately 5 to 7 times greater than the PAL, and these values are interpreted to indicate that the PAL is exceeded even with the potential high bias.

The results for PFOA in samples PLTSB-SW-002 (0.413 J µg/L) and PLTSB-SW-003 (0.374 L µg/L) is estimated and potentially biased low. The concentration for PFOA in these samples is very close to the PAL of 0.4 µg/L. Actual values for this compound may be higher than reported indicating both value may be greater than the PAL.

Groundwater Effluent

- Groundwater (effluent sample) PLTSB-EFF-001 (and field duplicate PLTSB-EFF-002): PFOA and PFOS J qualified with potential low analytical bias (J-MSL). Concentrations of both PFOA and PFOS exceeded the PALs and actual concentrations may be higher than reported based on the potential low bias.

Soil

- Soil sample PLTSB-SO-016: PFOA J qualified with potential low analytical bias (J-MSL). PFOA was reported at 0.337 J milligrams per kilogram (mg/kg). In general, soil sample data indicate that only low concentrations are present. The uncertainty of the estimated value is not interpreted to have an impact on the contamination assessment because the soil concentrations are low relative to the PAL of 12 mg/kg.

5.1.3 Field Duplicates

Field duplicates were collected at one surface water and one sediment location, and multiple groundwater and soil locations. Duplicate results are summarized in **Appendix D**. In general, good agreement of results was reported for all media indicating good sampling and analytical precision. One pair of surface water results was qualified as estimated due to field duplicate results. PFOS results for sample PLTSB-SW-002 and its field duplicate, PLTSB-SW-003 were J qualified and are considered estimated (J-FDD). Concentrations were near the PAL at this location, and the value for PLTSB-SW-002 was less than the PAL while the value for PLTSB-SW-003 was greater than the PAL. The field duplicate data indicate that PFOS is present in the surface water at this location, but there is uncertainty in the comparison to the PAL at this location.

5.1.4 Surrogate Recovery

Good surrogate recoveries within the project limits of 70-130 percent were reported for the majority of samples indicating good determination of the target analytes would be expected for most samples. Low recoveries were reported in five soil samples including PLTSB-SO-045, PLTSB-SO-023, PLTSB-SO-024, PLTSB-SO-025, and PLTSB-SO-026. The low recoveries ranged from 51 to 69 percent indicating that sample results may be biased low by a factor of approximately 2 times. Target analytes were not detected in these samples, with the exception of PFOS in sample PLTSB-SO-023 at 0.013 mg/kg. The LODs and reported concentration of PFOS in these samples are very low compared to the PALs, and the

estimated values are not interpreted to have a significant impact on the soil contamination assessment at these locations.

5.2 SOIL RESULTS

A summary of the PFC analytical results for soils is presented in **Table 5-1** and are described below. **Figure 5-1** shows the concentrations of PFOS and PFOA by depth for each soil boring. While PFOS and/or PFOA were detected at each soil boring location, none of the concentrations exceeded the soil PALs (PFOS, 5 mg/kg; PFOA 12 mg/kg). The following bullets summarize the PFOS and PFOA results for each boring location.

- Suspected Burn/Spill Area - FT002P-001: PFOS was detected at depths of 3 to 10 ft bgs with the highest detection (0.06 mg/kg) being recorded between 3 and 5 ft bgs. No PFOA was detected.
- Pit # 1 - FT002P-002: PFOS was detected from ground surface to 35 ft bgs with the highest detection (0.594 mg/kg) detected in the sample collected between 13 and 15 ft bgs. PFOA was detected from 18 to 35 ft bgs and the highest concentration was detected in the sample collected between 18 and 20 ft bgs.
- North of Pit # 4 - FT002P-003: PFOS was detected at 3 to 5 ft bgs. PFOA was detected at 23 to 25 ft bgs.
- North of Pit # 2 - FT002P-004: PFOS was detected from ground surface to 30 ft bgs with the highest concentration (1.87 mg/kg) being detected between 3 and 5 ft bgs. PFOA was detected from 3 to 5 ft bgs.
- Pit # 4 - FT002P-005: PFOS was detected 0 to 3 ft bgs. No PFOA was detected.
- Pit # 2 - FT002P-006: The soil from this boring had the highest concentration of PFOS detected in soil at the FT002P source area. PFOS was detected from ground surface to 35 ft bgs, ranging from 0.809 mg/kg to 3.48 mg/kg in the sample collected between 23 and 25 ft bgs. PFOA was detected at 0 to 1 ft bgs.
- South of Pit # 4 - FT002P-007: PFOS was detected from 23 to 25 ft bgs. No PFOA was detected.
- Pit # 3 - FT002P-008: The soil from this boring had the second highest concentration of PFOS detected in the soil at the FT002P source area. PFOS was detected from ground surface to 35 ft bgs, ranging from 0.00936 J mg/kg to 2.79 mg/kg in the sample collected between 13 and 15 ft bgs. No PFOA was detected.

These results indicate that the highest PFC concentrations are associated with Pits # 1, # 2, and # 3.

5.3 SEDIMENT RESULTS

A summary of the PFC analytical results for sediment is presented in **Table 5-2.** The concentrations of PFOA and PFOS detected in each sample are shown on **Figure 5-2**.

- GCDA: Samples from four of the five locations sampled were non-detect for PFCs. The Pond Outfall sample collected from the aeration pond contained PFOS at 0.0243 mg/kg, well below the PAL of 5 mg/kg.
- WSADA: Samples from the four locations sampled were non-detect for PFCs.

5.4 SURFACE WATER RESULTS

A summary of the PFC analytical results for surface water is presented in **Table 5-3.** The concentrations of PFOA and PFOS detected in each sample are shown on **Figure 5-2**. Surface water at nine sampling locations exceeded the PAL for PFOS (0.2 µg/L) and one location exceeded the PAL for PFOA (0.4 µg/L). The following bullets summarize the PFOS and PFOA PAL exceedances for each surface water location:

GCDA

- IA-NORTH: PFOS and PFOA were both detected at this location, but at concentrations below the PALs.
- SW-MNA-3: PFOS was detected above the PAL at 0.366 µg/L. PFOA was detected below the PAL. A small side drainage channel was noted above the sample point flowing into the stream, which may have contributed to the PFOS and PFOA detections.
- EFEFF-1: PFOS was detected above the PAL at 0.52 J µg/L. PFOA was detected below the PAL.
- Pond Inlet: The PFOS concentration was 1.36 µg/L. PFOA was detected below the PAL.
- Pond Outfall: PFOS was detected at 0.949 µg/L. PFOA was detected below the PAL.
- SW-MNA-1: PFOS was detected at 1.08 µg/L. PFOA was detected below the PAL.

WSADA

- FT002P-009: PFOS and PFOA were both detected, but at concentrations below the PALs.
- FT002P-010: Both PFOS (0.188 µg/L and 0.317 µg/L [duplicate]) and PFOA (0.413 µg/L and 0.347 µg/L [duplicate]) were detected above their respective PALs.
- FT002P-011: PFOS was detected at 0.41 µg/L. PFOA was detected below the PAL.
- FT002P-012: PFOS was detected at 0.334 µg/L. PFOA was detected below the PAL.

Overall both the GCDA and the WSADA have been impacted by PFCs. Eight of the samples collected contained PFOS above the PALs and PFOS was widely distributed throughout both drainage systems. Only one location (FT002P-010, located immediately downstream of the Groundwater OU Treatment Plant discharge point) contained PFOA above the PAL.

5.5 GROUNDWATER OU TREATMENT PLANT INFLUENT/EFFLUENT RESULTS

A summary of the PFC analytical results for the Groundwater OU Treatment Plant influent (FT002P-013) effluent (FT002P-014) is presented in **Table 5-4.** Concentrations of PFOS and PFOA in the samples are shown on **Figure 5-2**.

- Influent sample - both PFOS (0.434 µg/L) and PFOA (0.42 µg/L) exceed the PALs.
- Effluent sample - both PFOS (0.41 J µg/L) and PFOA (0.419 J µg/L) exceed the PALs.

5.6 GROUNDWATER RESULTS

A summary of the groundwater PFC sampling results is presented in **Table 5-4.** Concentrations of PFOA and PFOS in the samples are shown on **Figure 5-3**. The following bullets summarize the groundwater results in areas from upgradient to downgradient.

- Upgradient wells (MW-22-003 and MW-22-008,): PFOS was not detected at any of the upgradient locations. PFOA was detected at all two locations, but at concentrations below the PAL.
- Source Area wells (MW-02-010, MW-02-008, MW-02-017, MW-GWOU-26, MW-GWOU-27, and MW-02-094): PFOS and PFOA were detected above the PALs in the vicinity of the source area. The highest concentrations were detected at MW-02-008 (PFOS at 64 µg/L and PFOA at 981 µg/L), located just downgradient of Pit # 1. Further downgradient (approximately 300 ft) of Pit # 1, at MW-GWOU-26, the concentration for PFOS and PFOA still exceed the PALs, but at considerably lower concentrations (1.57 µg/L and 3.84 µg/L, respectively).
- Downgradient Flightline Area wells – Within OU Groundwater Plume (MW-02-019, MW-GWOU-16, MW-GWOU-15, MW-02-083, MW-02-084, MW-02-073, MW-GWOU-23, and MW-11-008): PFOS was detected above the PAL in several wells. At MW-02-019, located approximately 700 ft downgradient of Pit # 2 and Pit # 3, PFOS was detected at 20.7 µg/L. Downgradient of MW-02-019, concentrations of PFOS generally decrease from west (0.575 µg/L at MW-GWOU-15) to east (0.301 µg/L at MW-11-08). Concentrations of PFOA were below the PAL at eight wells sampled.
- Downgradient Flightline Area wells – Beyond Perimeter of OU Groundwater Plume (MW-02-046, MW-02-047, MW-12-001R, MW-11-004, PRB-15, and PRB-02): PFOS was detected above the PAL at MW-02-047 (0.211 µg/L), MW-12-001R (0.361 µg/L), MW-11-008 (0.301 µg/L), and MW-11-004 (0.235 µg/L). PFOS was below the PAL at PRB-15 and PRB-02. PFOA was below PAL at all four locations.

6.0 DISCUSSION OF RESULTS

The data quality objective, to determine if a confirmed release of PFCs has occurred, outlined in **Worksheet # 11** of the General QPP (AMEC, 2014) has been met. PFCs are present in the four media sampled. PFOS and PFOA were detected above their respective PALs in surface water and groundwater. PFOS and PFOA were detected below their respective PALs in soil and sediment.

Other PFCs (PFBS, PFHpA, PFHxS, and PFNA) were also found at concentrations above detection limits. However, since no PALs are established for these compounds, these sample results are included only in the analytical summary tables.

The specific objectives of this investigation, as defined in the ISWPA, and restated in the introduction of this report, are listed below in italics. They are followed by a bulleted summary of how each objective was met and considerations of potential data gaps.

1. *Assess whether there are PFCs (i.e. PFOS, PFOA, PFHxS, PFHpA, PFNA, and PFBS) in surface soil, subsurface soil, and groundwater at FT002P from past use of AFFF at the site for fire-fighting training.*

    - PFOS and PFOA were detected in surface soil and subsurface soil at concentrations below the PALs. The highest concentrations were found in samples collected from Pits # 1, # 2, and # 3. PFCs are present in the full depth of the vadose zone. There is no discernible trend in the change of PFC concentrations with depth.

    - PFCs have percolated down though the vadose zone, and are present in the overburden groundwater at the site. Groundwater in the FT002P source area exceeds the PAL for both PFOS and PFOA.

2. *Assess whether there are PFCs (i.e. PFOS, PFOA, PFHxS, PFHpA, PFNA, and PFBS) in groundwater that have migrated downgradient, following a similar path as the current Groundwater OU plume.*

    - PFOS and PFOA were detected in groundwater downgradient of FT002P and follow a similar but not identical path as the current Groundwater OU plume. Groundwater downgradient of FT002P exceeds the PAL for both PFOS and PFOA. The PFCs extend further to the north, east, and southeast than the current Groundwater OU plume.

    - The extent of PFOS and PFOA to the east, northeast, and southeast (beyond the airport apron) is unknown.

3. *Assess whether PFCs (i.e. PFOS, PFOA, PFHxS, PFHpA, PFNA, and PFBS) are present in groundwater collected by the Runway Trench and the treated water from the Groundwater OU Treatment Plant that is discharged into the unnamed tributary north of the WSA that discharges to the Salmon River.*

- PFOS and PFOA are present above their PALs in groundwater collected by the Runway Collection Trench (influent) and in the treated water from the Groundwater OU Treatment Plant (effluent) that is discharged into the unnamed stream north of the former WSA.
- The influent and effluent concentrations are similar indicating PFCs are being collected but not removed by the current groundwater treatment system.

4. *Assess whether PFCs (i.e. PFOS, PFOA, PFHxS, PFHpA, PFNA, and PFBS) are present in surface water and sediments associated with the Groundwater OU Treatment Plant discharge.*
   - PFOS and PFOA above their PALs are present in the surface water at the discharge location and PFOS was detected above the PAL, at distances approximately 200 ft and 3,000 ft downstream, in the unnamed stream that discharges into the Salmon River.
   - It is unknown whether the PFOS are present in surface water below the former WSA and in the Salmon River.
   - PFCs were not detected in sediment samples collected relative to the Groundwater OU Treatment Plant discharge.
   - Most sediments that were collected in this investigation were co-located with surface water samples in non-depositional sections of the stream. The unnamed stream contains several impounded sections due to beaver activity that may be sediment depositional environments. It is unknown whether these impoundments are areas of sediment deposition which may contain PFCs.
5. *Assess whether PFCs (i.e. PFOS, PFOA, PFHxS, PFHpA, PFNA, and PFBS) are present in combined groundwater collected by the East Flightline Trench and Idaho Avenue Trench that is discharged into the Golf Course Drainage Area.*
   - PFOS was detected above the PAL, in groundwater collected by the East Flightline Trench.
   - PFOS and PFOA are present, but below the PALs, in groundwater collected by the Idaho Avenue Trench.
6. *Assess whether PFCs (i.e. PFOS, PFOA, PFHxS, PFHpA, PFNA, and PFBS) are present in surface water and sediments associated with the East Flightline Trench and Idaho Avenue Trench that is discharged into the GCDA.*
   - PFOS are present above the PALs in surface water in the aeration pond that receives discharge from the East Flightline Collection Trench. The concentrations of PFOS downstream of the East Flightline Collection Trench discharge location are an order of magnitude higher in the water at the collection trench discharge (EFEFF-1) suggesting that another potential source is also impacting this area.

- The aeration pond below the East Flightline Collection Trench discharge point has sediment that contains PFOS at concentrations below the PAL. No other sediments had PFCs. The aeration pond has a dam that impounds the water and traps sediments and the aeration process appears to continuously churn up and mix sediment and surface water.
- PFOS is present above the PAL in surface water downstream of the Idaho Avenue Collection Trench discharge point. Since the Idaho Avenue Collection trench did not have PFCs above the PALs, it is likely there is another potential source (i.e., another tributary that receives storm drain runoff from the south industrial area or groundwater discharge).
- PFOS is present above the PAL in surface water at the former installation boundary in the unnamed stream that discharges to Lake Champlain.
- The presence/absence of PFCs in surface water/sediment downstream of the installation boundary is unknown.

6.1 UPDATED CONCEPTUAL SITE MODEL

The CSM summarizes the constituents of concern and provides a description of the physical characteristics and the migration tendencies of each chemical of interest within the environment. The purpose of the CSM is to understand overall site conditions. Based on data collected during this site investigation, the CSM has been updated from the preliminary CSM presented in Section 3.0 which was initially established in **Worksheet # 10** of the ISWPA (AMEC, September 2014). The updated CSM is provided on **Table 6-1**. The following is a brief summary of the updated CSM.

Residual concentrations of PFCs are present in surface and subsurface soil and groundwater at FT002P. This confirms a release has occurred and that PFCs have infiltrated to groundwater. It appears that Pits # 1, # 2 and # 3 are the primary residual sources of PFCs. The suspected spill/burn area and Pit # 4 had minimal PFCs detected and therefore do not appear to represent a significant residual source.

PFCs have migrated through groundwater in the overburden from FT002P to the east and southeast following the overburden groundwater flow directions. The furthest downgradient samples collected to the east, contain PFCs above the PAL. Therefore, the pathway to human receptors through private drinking water wells cannot be ruled out at this time.

A generalized geologic cross section from the RI/FS report (URS, June 2001,) depicting the general site geology and water table, is provided in **Appendix A**. This figure shows the depth to overburden groundwater decreasing and the overburden thickness thinning to the east. As overburden in the eastern and southeastern portion of the former installation thins, and the depth to overburden groundwater becomes shallow, bedrock likely becomes a more prominent hydrogeologic feature. Bedrock groundwater was not sampled during this investigation. However, bedrock outcrops near the base boundary, approximately 1,000 ft east of the PFCs detected in the overburden. Fault zones have been mapped where the bedrock outcrops are in contact with the overburden. A bedrock features

figure (Plate 3-9) from the RI/FS report (URS, June 2001,) is provided in **Appendix A** to show where bedrock outcrops are located. This figure also shows that bedrock faults are present along the bedrock/overburden contact and are coincidental with surface water drainages features (i.e., streams and ponds) in the GCDA. These geologic features may influence the groundwater flow pathways and possibly effect off-site migration, if PFCs have migrated to the bedrock/overburden contact. A previous potable water well survey (URS, June 2001) indicated that residences along Route 9, east of the base boundary, have private potable water wells.

The groundwater collection trenches are collecting PFC impacted groundwater which is transported and discharged to streams and wetlands. It is also likely, but not confirmed, that groundwater containing PFCs is infiltrating into the portions of the storm sewers that are below the water table. A storm sewer location figure (Plate 3-1a), from the RI/FS report (URS, June 2001), is provided in **Appendix A.** This figure shows the location of the storm sewers, direction of flow, and where inverts are above and below the water table. In the southern portion of the flightline industrial area, where PFCs are present in groundwater, storm sewer inverts are below the water table and groundwater infiltration is possible. These storm sewers discharge to the unnamed streams.

PFCs were detected in the surface water collected at several locations in both the GCDA and the WSADA. Neither the Groundwater OU Treatment Plant nor the aeration pond are removing PFCs. For the GCDA, PFCs were detected above the PALs in surface water in the unnamed stream at the eastern installation boundary that discharges to Lake Champlain. For the WSADA, PFCs were detected above the PALs in the furthest downstream sample collected in the unnamed stream that flows to the Salmon River. Therefore, the downstream extent of PFCs in the two drainage areas is unknown. In addition, there are other smaller drainages that flow into the GCDA that were not sampled in this investigation. For example, there is a small stream that flows onto the installation, south of the golf course and a drainage ditch that receives runoff from the storm sewer discharge from the central portion of the flightline industrial area.

PFCs were detected in only one sediment sample. This sample was collected from the aeration pond at the outlet of the East Flightline Groundwater Collection Trench. At this location there is a dam that impounds the surface water and traps sediments. It is possible that the aeration process at the outlet pond stirs up sediment and allows PFCs to partition between surface water and sediment. Most other sediment samples were collected from stream reaches where sediment may be routinely scoured and transported downstream. There are several beaver impoundments in the WSADA that might be impounding surface water and sediment, allowing PFC impacted sediment to accumulate.

Recreational anglers fishing in the unnamed streams in the GCDA and WSADA are also potential receptors, as they could possibly be exposed to PFCs via the consumption of fish caught in these unnamed streams.

6.2 RECOMMENDATIONS

Based on results of this Site Investigation and interpretation of the CSM we recommended the following additional investigations be undertaken to evaluate potential human exposure pathways:

1. Review the PFC Preliminary Assessment Report that is currently in development to identify potential AFFF release areas and evaluate for further action.
2. Collect additional surface water samples from streams to assess other potential source areas, seasonal variations, and determine if PFCs have migrated off-site and may be posing a direct human exposure.
3. Perform an investigation to assess and delineate the source of PFOS increases at downstream locations within the GCDA to evaluate for potential human exposure pathways. This could include sampling of the former installation storm sewer system and sampling existing monitoring wells within the southern airfield industrial area and the southern portion of the aircraft ramp.
4. Sample and analyze additional existing wells in the south industrial area and north access ramp (near Kemp Lane) to further assess whether PFCs may be located upgradient of potential private water supplies.
5. Install and sample new wells south/southeast of runway and access ramp to further define the PFC plume and to evaluate the migration towards potential human receptors.
6. Assess infiltration within the storm sewer system and sample storm water from storm drains to isolate the source of PFCs entering the system for evaluation of potential migration that could impact human receptors.
7. Perform an ecological evaluation/assessment of the streams in both the GCDA and WSADA to determine if potential receptors (recreational anglers) might be exposed to fish containing PFCs.
8. Update the private drinking water use survey of off-base properties north and east/southeast/northeast of the flightline area to determine whether residents with private potable wells have the potential to be exposed to PFCs through drinking water consumption. Following the survey, private wells will be evaluated for potential sampling and sampled if determined to be necessary for potential human exposure evaluation

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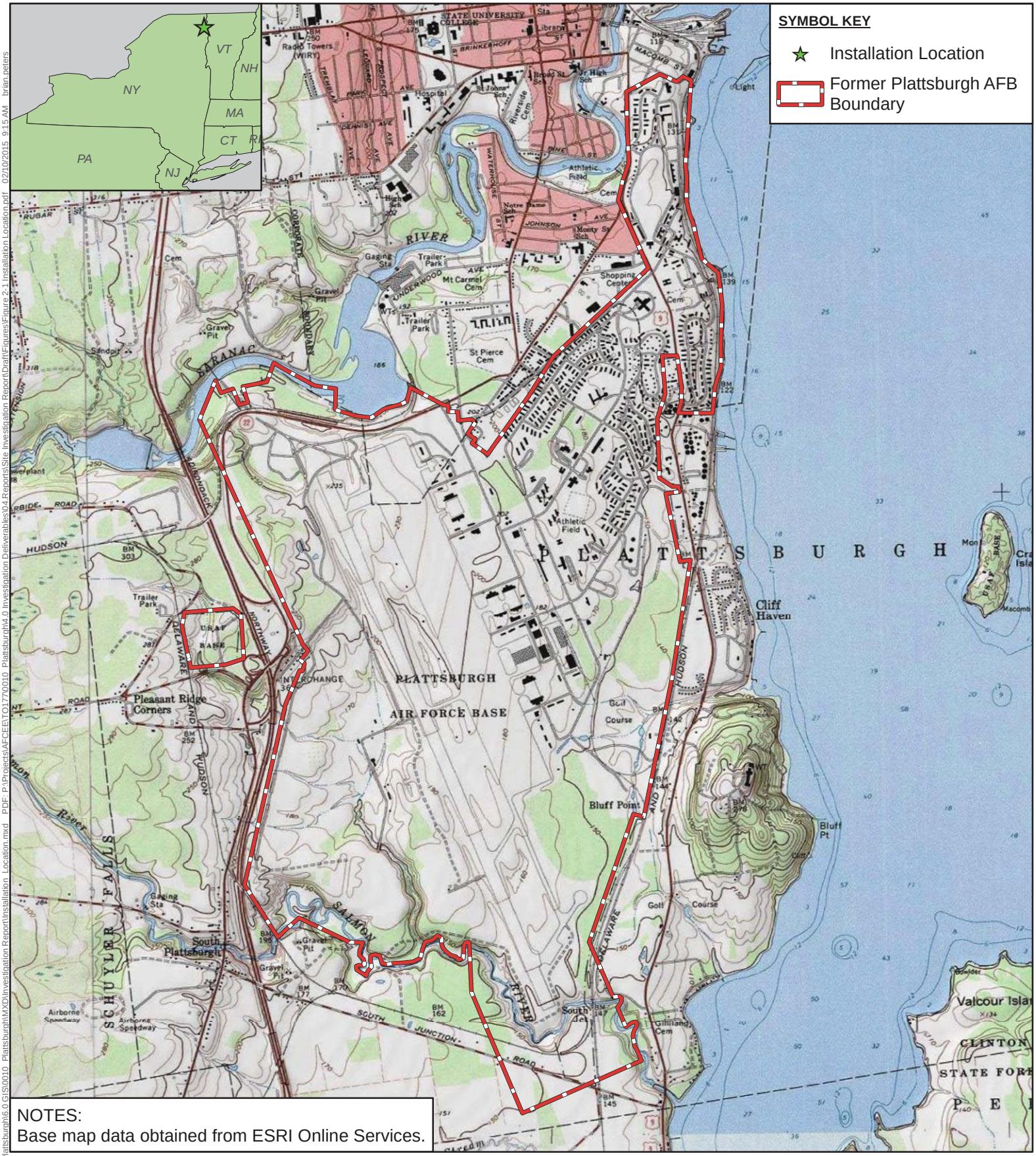
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FIGURES

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FIGURE 2-1
Installation Location
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

0 350 700 1,400 2,100 2,800 3,500 Meters
0 3,000 6,000 9,000 12,000 Feet

02/10/2015	Installation_Location		
PROJ: 775290177	Drawn: BRP	Chk: PSB	

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INSET 1

Noted in AE#2473 as "Suspected Burn/Spill Area"

Pit 1

Pit 4

Pit 2

Pit 3

Oil/ Water Separator

EW-1

EW-2

EW-3

EW-4

EW-5

FT002 Source OU Treatment Plant

Lake Champlain

SEE INSET 1

Approximate Location of Area FT002 Source OU

Runway Collection Trench

Gravity Main

Discharge Pipe

East Flightline Collection Trench

Idaho Avenue CollectionTrench

Unnamed Stream

Groundwater OU Treatment Plant

Aeration Pond

Salmon River

Former Weapons Storage Area

Unnamed Stream

SYMBOL KEY

- Groundwater Collection/Treatment Discharge Location
- Oil/Water Separator
- Groundwater Extraction Well
- Water Treatment/ Trench Features
- Golf Course Drainage Area
- Weapons Storage Area Drainage Area
- Former Weapons Storage Area
- FT002 Source OU
- FT-002/IA Groundwater Operable Unit
- Pit Location
- Former Base Boundary
- Stream

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FIGURE 2-2
FT-002P Location and Historical Layout
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

0 250 500 1,000 1,500 2,000 2,500 Meters

0 1,000 2,000 4,000 6,000 8,000 Feet

N

Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html)

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INSET 1

Overflow Pipe

PS

Effluent Pipe

8" Force Main

Pump Station

Groundwater OU Treatment Plant

Lake Champlain

Approximate Location of Area FT002 Source OU

Runway Collection Trench

East Flightline Collection Trench

Idaho Avenue Collection Trench

Gravity Main

SEE INSET 1

Groundwater OU Treatment Plant

Discharge Pipe

Unnamed Stream

Unnamed Stream

Salmon River

SYMBOL KEY

- Water Treatment/ Trench Features
- FT002 Source OU
- FT-002/IA Groundwater Operable Unit
- Pit Location
- Chlorinated Hydrocarbon Plume (2012)
- Chlorinated Hydrocarbon Plume (2001)
- Former Base Boundary
- Stream

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FIGURE 2-3
FT002P/Groundwater OU Plume
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

0 250 500 1,000 1,500 2,000 2,500 Meters

0 1,000 2,000 4,000 6,000 8,000 Feet

N

Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html) Groundwater Plume: URS, 2001: FTA (FT-002)/ IA Groundwater OU RI/FS Volume III: June 2001

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Approximate Location of Area FT002 Source OU

MW-22-008

MW-22-003

MW-02-010

MW-02-008

MW-02-017

MW-GWOU-27

MW-GWOU-26

MW-02-094

MW-02-019

MW-02-046

Runway Collection Trench

MW-GWOU-16

MW-GWOU-15

MW-02-047

East Flightline Collection Trench

MW-12-001R

FT002 Source OU Treatment Plant

Gravity Main

MW-02-083

MW-02-084

MW-02-073

MW-11-008

Idaho Avenue CollectionTrench

MW-11-004

MW-GWOU-23

Former FT002 Source OU Treatment Plant Discharge

Discharge Pipe

PRB-15

Groundwater OU Treatment Plant

PRB-02

Unnamed Stream

Unnamed Stream

Salmon River

210 205 200 195 190 185 180 175 170 165 160 155 150 145 140 135 130 125 120 115

SYMBOL KEY

- Monitoring Well
- Former Base Boundary
- Stream
- Groundwater Elevation Contour (ft amsl; December 17, 2012)
- Groundwater Collection/Treatment Discharge Location
- Oil/Water Separator
- Water Treatment/ Trench Features
- FT002 Source OU
- Pit Location

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FIGURE 3-1
Potentiometric Surface Contours (December 2012)
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

0 100 200 400 600 800 1,000 Meters

0 500 1,000 2,000 3,000 4,000 Feet

N

Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html)
Groundwater Contours: URS, 2012: Semi-Annual Operations Report (July-December 2012) and 2012 Operations Summary and Progress Assessment, June 2013

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FIGURE 4-1
Soil Sampling Locations
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

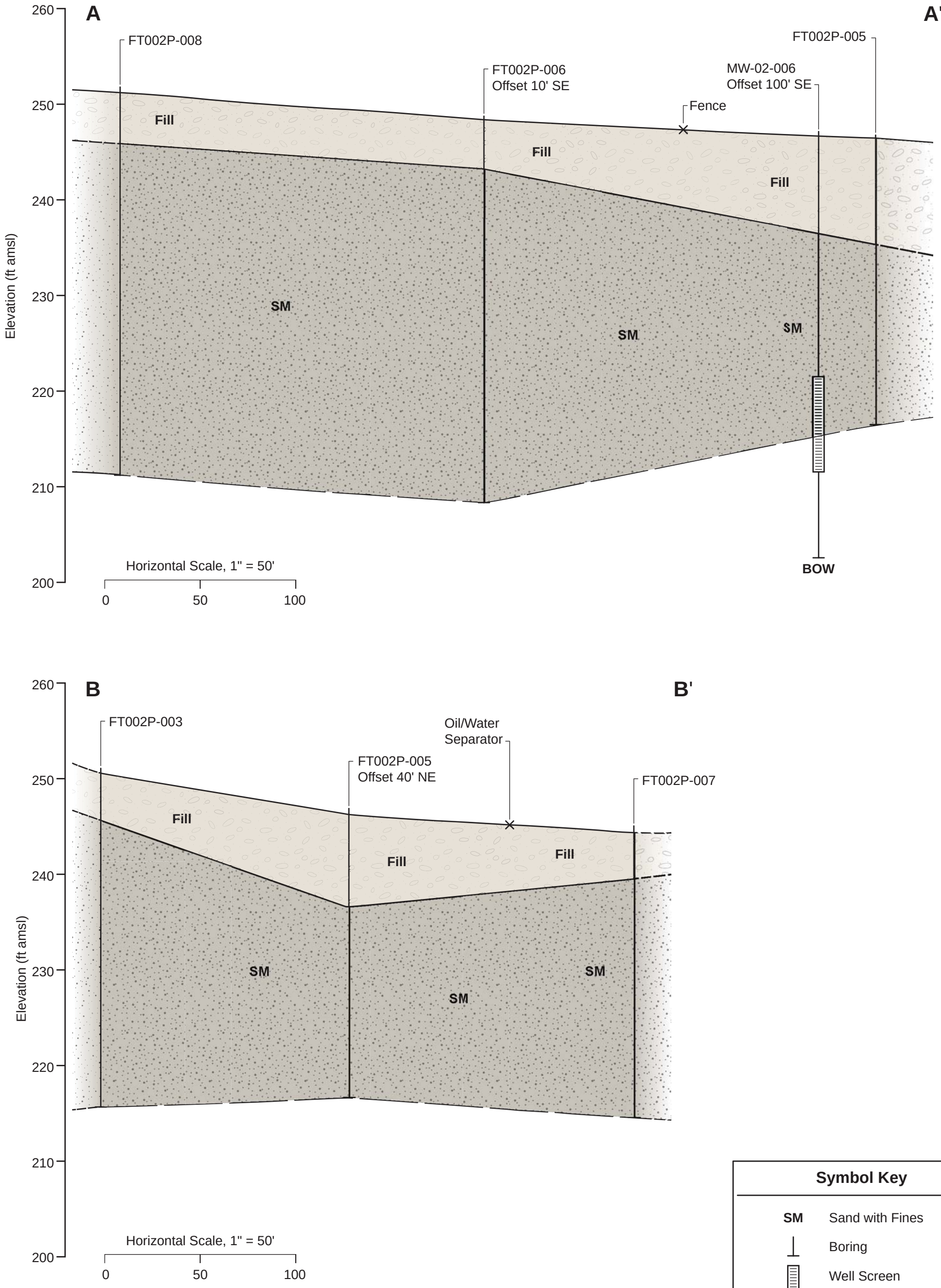
0 15 30 60 90 120 150 Meters
0 65 130 260 390 520 Feet

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Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html)
Final Installation-Specific Work Plan Addendum, September 2014, AMEC

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FIGURE 4-2
Geologic Cross Sections at FT002P Source Area
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

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INSET 1

Idaho Avenue Collection Trench

IA-NORTH

SW-MNA-3A

Unnamed Stream

SW-MNA-1

East Flightline Collection Trench

POND OUTFALL

POND INLET

EFEFF-1

Lake Champlain

Approximate Location of Area FT002 Source OU

Runway Collection Trench

FT002 Source OU Treatment Plant

Gravity Main

East Flightline Collection Trench

Idaho Avenue Collection Trench

SEE INSET 1

FT002P-009

Discharge Pipe

SEE INSET 2

Groundwater OU Treatment Plant

FT002P-011

Unnamed Stream

Salmon River

FT002P-012

Former Weapons Storage Area

INSET 2

Overflow Pipe

PS

Effluent Pipe

FT002P-010

Groundwater OU Treatment Plant

8" Force Main

Pump Station

FT002P-014(Eff)

FT002P-013(Inf)

Unnamed Stream

SYMBOL KEY

- Influent/Effluent Sample Location
- Surface Water and Sediment Sample Location
- Oil/Water Separator
- Water Treatment/ Trench Features
- Former Base Boundary
- Stream
- Golf Course Drainage Area
- WSA Drainage Area
- Former Weapons Storage Area
- FT002 Source OU
- Pit Location

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FIGURE 4-3
Surface Water/Sediment/GWTS Influent and Effluent Sampling Locations
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Former Plattsburgh Air Force Base, Plattsburgh, New York

0 250 500 1,000 1,500 2,000 2,500 Meters
0 1,000 2,000 4,000 6,000 8,000 Feet

N

Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html)

04/08/2015	Rev:	SW_SED_Locations
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INSET 1

Noted in AE#2473 as "Suspected Burn/Spill Area"

Approximate Location of Area FT002 Source OU

MW-02-010

MW-02-017

MW-GWOU-26

MW-GWOU-27

MW-02-008

Pit 1

Pit 4

Pit 2

Pit 3

MW-02-094

Oil/ Water Separator

MW-02-019

FT002 Source OU Treatment Plant

Lake Champlain

SEE INSET 1

MW-22-008

MW-22-003

Approximate Location of Area FT002 Source OU

Runway Collection Trench

MW-02-046

MW-GWOU-16

MW-GWOU-15

MW-02-047

East Flightline Collection Trench

MW-12-001R

MW-02-083

MW-02-084

MW-11-008

Idaho Avenue Collection Trench

MW-02-073

MW-11-004

Gravity Main

MW-GWOU-23

PRB-15

Discharge Pipe

Unnamed Stream

Groundwater OU Treatment Plant

PRB-02

Unnamed Stream

Salmon River

SYMBOL KEY

- Monitoring Well
- Groundwater Collection/Treatment Discharge Location
- Oil/Water Separator
- Water Treatment/ Trench Features
- Former Base Boundary
- Stream
- Roads
- FT002 Source OU
- Pit Location

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2261 Hughes Avenue
Building 171, Ste 155
JBSA Lackland, Texas 78236

FIGURE 4-4
Groundwater Sampling Locations
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

0 250 500 1,000 1,500 2,000 2,500 Meters

0 1,000 2,000 4,000 6,000 8,000 Feet

N

Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html)

02/17/2015 | Rev: | GW_Locations

Drawn: BRP | Chk: PSB | PROJ: 775290177

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FT002P-001		
	PFOS	**PFOA**
0.0' - 1.0'	0.01 U	0.021 U
3.0' - 5.0'	0.06	0.02 U
8.0' - 10.0'	0.00607 J	0.02 U
13.0' - 15.0'	0.01 U	0.02 U
18.0' - 20.0'	0.0094 U	0.019 U
23.0' - 25.0'	0.0095 U	0.019 U
28.0' - 30.0'	0.0089 U	0.018 U
33.0' - 35.0'	0.01 U	0.021 U
38.0' - 40.0'	0.011 U	0.021 U

Noted in AE#2473 as "Suspected Burn/Spill Area"

FT002P-001

FT002P-003		
	PFOS	**PFOA**
0.0' - 1.0'	0.0089 U	0.018 U
3.0' - 5.0'	0.013 J	0.017 UJ
8.0' - 10.0'	0.01 UJ	0.021 UJ
13.0' - 15.0'	0.009 UJ	0.018 UJ
18.0' - 20.0'	0.0091 UJ	0.018 UJ
23.0' - 25.0'	0.0088 U	0.00958 J
28.0' - 30.0'	0.011 U	0.021 U
33.0' - 35.0'	0.01 U	0.02 U

FT002P-002		
	PFOS	**PFOA**
0.0' - 1.0'	0.0407[A]	0.02[A] U
3.0' - 5.0'	0.491	0.018 U
8.0' - 10.0'	0.263	0.019U
13.0' - 15.0'	0.594	0.018 U
18.0' - 20.0'	0.355	0.404
23.0' - 25.0'	0.0487	0.337 J
28.0' - 30.0'	0.0415	0.227
33.0' - 35.0'	0.00501 J	0.0435
38.0' - 40.0'	0.011 U	0.021 U

Pit 1

FT002P-005		
	PFOS	**PFOA**
0.0' - 1.0'	0.0183	0.02 U
3.0' - 5.0'	0.0093 U	0.019 U
8.0' - 10.0'	0.01 UJ	0.02 UJ
13.0' - 15.0'	0.0098 U	0.02 U
18.0' - 20.0'	0.0084 U	0.017 U
23.0' - 25.0'	0.0094 U	0.019 U
28.0' - 30.0'	0.011 U	0.022 U

FT002P-003

FT002P-005

Pit 4

FT002P-004		
	PFOS	**PFOA**
0.0' - 1.0'	0.0229	0.019 U
3.0' - 5.0'	1.87	0.0137 J
8.0' - 10.0'	0.196	0.018 U
13.0' - 15.0'	0.328	0.018 U
18.0' - 20.0'	0.506	0.021 U
23.0' - 25.0'	0.0401	0.019 U
28.0' - 30.0'	0.00664 J	0.022 U
33.0' - 35.0'	0.012 U	0.023 U
38.0' - 40.0'	0.011 U	0.023 U

FT002P-004

FT002P-006

Pit 2

FT002P-007

FT002P-008		
	PFOS	**PFOA**
0.0' - 1.0'	1.46	0.019 U
3.0' - 5.0'	0.494	0.019 U
8.0' - 10.0'	0.968	0.021 U
13.0' - 15.0'	2.79	0.021 U
18.0' - 20.0'	1.81	0.02 U
23.0' - 25.0'	2.2	0.02 U
28.0' - 30.0'	0.299	0.018 U
33.0' - 35.0'	0.00936[A] J	0.024[A] U
38.0' - 40.0'	0.011 U	0.021 U

FT002P-008

Pit 3

FT002P-006		
	PFOS	**PFOA**
0.0' - 1.0'	1.43	0.018 J
3.0' - 5.0'	0.809	0.02 U
8.0' - 10.0'	2.17[A]	0.018[A] U
13.0' - 15.0'	2.2	0.015 U
18.0' - 20.0'	3.5	0.019 U
23.0' - 25.0'	3.48	0.019 U
28.0' - 30.0'	0.97	0.02 U
33.0' - 35.0'	0.011 U	0.022 U
38.0' - 40.0'	0.012[A] U	0.024[A] U

FT002P-007		
	PFOS	**PFOA**
0.0' - 1.0'	0.01 U	0.021 U
3.0' - 5.0'	0.0084 U	0.017 U
8.0' - 10.0'	0.0086	0.017 U
13.0' - 15.0'	0.0083 U	0.017 U
18.0' - 20.0'	0.0093 U	0.019 U
23.0' - 25.0'	0.187	0.018 U
28.0' - 30.0'	0.011 U	0.021 U

NOTES:
All results in mg/kg (milligrams/kilogram)
Sediment Criteria:
Project Action Limits: 5 mg/kg (PFOS) and 12 mg/kg (PFOA)
[A]Results obtained from field duplicate sample (higher concentration).
U = Non-detect at reporting limit shown.
UJ = Estimated non-detect at reporting limit shown.
J = Estimated detect at concentration shown.

SYMBOL KEY
- Soil Boring
- FT002 Source OU
- Pit Location

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Building 171, Ste 155
JBSA Lackland, Texas 78236

FIGURE 5-1
Soil Sampling Results - PFOS/PFOA
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

0 10 20 40 60 80 100 Meters
0 50 100 200 300 400 Feet

N

Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html)

04/10/2015	Rev:	Soil_Results_ChemBoxes
Drawn: BRP	Chk: PSB	PROJ: 775290177

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Approximate Location of Area FT002 Source OU

Runway Collection Trench

Gravity Main

East Flightline Collection Trench

Idaho Avenue Collection Trench

Discharge Pipe

Groundwater OU Treatment Plant

Unnamed Stream

Unnamed Stream

Salmon River

FT002P-009	PFOS	PFOA
Surface Water	0.157	0.166
Sediment	0.011 U	0.023 U

FT002P-013/014	PFOS	PFOA
Influent (013)	0.434	0.42
Effluent (014)	0.41 J	0.419 J

IA-NORTH	PFOS	PFOA
Surface Water	0.165	0.0395 J
Sediment	0.011 U	0.022 U

SW-MNA-3A	PFOS	PFOA
Surface Water	0.366	0.0508
Sediment	0.012 U	0.024 U

POND-INLET	PFOS	PFOA
Surface Water	1.36	0.117
Sediment	0.011 U	0.022 U

SW-MNA-1	PFOS	PFOA
Surface Water	1.08	0.0899
Sediment	0.011 U	0.022 U

FT002P-010	PFOS	PFOA
Surface Water	0.317[A] J	0.413 J
Sediment	0.017 U	0.035[A] U

FT002P-011	PFOS	PFOA
Surface Water	0.41	0.346
Sediment	0.011 U	0.021 U

EFEFF-1	PFOS	PFOA
Surface Water	0.52 J	0.0825
Sediment	NS	NS

POND-OUTFALL	PFOS	PFOA
Surface Water	0.949	0.106
Sediment	0.0243	0.032 U

FT002P-012	PFOS	PFOA
Surface Water	0.334	0.269
Sediment	0.011 U	0.023 U

NOTES:
Surface Water results in µg/L (micrograms/Liter)
Sediment results in mg/kg (milligrams/kilograms)
Surface Water PAL:
Provisional Health Advisory: 0.2 µg/L (PFOS) and 0.4 µg/L (PFOA)
Sediment PAL:
Project Action Limits: 5 mg/kg (PFOS) and 12 mg/kg (PFOA)
[A]Results obtained from field duplicate sample (higher concentration).
U = Non-detect at reporting limit shown.
UJ = Estimated non-detect at reporting limit shown.
J = Estimated detect at concentration shown.
NS = No sediment present at this location, so no sediment sample was collected.
= Value Exceeds PAL

SYMBOL KEY

- Surface Water and Sediment Sample Location
- Influent/Effluent Sample Location
- Water Treatment/ Trench Features
- Former Base Boundary
- Stream
- FT002 Source OU
- Pit Location

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JBSA Lackland, Texas 78236

FIGURE 5-2
Surface Water/Sediment/GWTS Influent and Effluent Sampling Results - PFOS/PFOA
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

0 100 200 400 600 800 1,000 Meters
0 500 1,000 2,000 3,000 4,000 Feet

N

Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html)

04/10/2015 | Rev: | SW_SED_Results
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Approximate Location of Area FT002 Source OU

MW-22-008	
PFOS	PFOA
0.016 U	0.0343 J

MW-02-017	
PFOS	PFOA
0.0104 J	0.436

MW-22-003	
PFOS	PFOA
0.016 U	0.0196 J

Runway Collection Trench

MW-02-046	
PFOS	PFOA
0.0782	0.0267 J

MW-GWOU-27	
PFOS	PFOA
0.016 U	0.032 U

MW-GWOU-16	
PFOS	PFOA
0.016 U	0.032 U

MW-02-010	
PFOS	PFOA
0.017 U	0.0429

MW-02-008	
PFOS	PFOA
64	981

MW-GWOU-15	
PFOS	PFOA
0.575	0.0441

MW-02-047	
PFOS	PFOA
0.211	0.0861

MW-12-001R	
PFOS	PFOA
0.361[A]	0.0204 J

MW-GWOU-26	
PFOS	PFOA
1.57[A]	3.84[A]

MW-02-094	
PFOS	PFOA
0.028	0.033 U

MW-02-084	
PFOS	PFOA
0.0709	0.276

East Flightline Collection Trench

MW-11-008	
PFOS	PFOA
0.301	0.0283 J

Gravity Main

MW-02-019	
PFOS	PFOA
20.7	0.125

Idaho Avenue Collection Trench

MW-02-083	
PFOS	PFOA
0.0116 J	0.0241 J

MW-02-073	
PFOS	PFOA
0.337	0.0386 J

MW-GWOU-23	
PFOS	PFOA
0.016 U	0.032 U

MW-11-004	
PFOS	PFOA
0.235	0.0231 J

Discharge Pipe

PRB-15	
PFOS	PFOA
0.0314	0.0176 J

Groundwater OU Treatment Plant

Unnamed Stream

PRB-02	
PFOS	PFOA
0.119	0.0391 J

Unnamed Stream

Salmon River

NOTES:
All results in µg/L (micrograms/Liter)
Groundwater PAL:
Provisional Health Advisory: 0.2 µg/L (PFOS) and 0.4 µg/L (PFOA)
[A]Results obtained from field duplicate sample (higher concentration).
U = Non-detect at reporting limit shown.
UJ = Estimated non-detect at reporting limit shown.
J = Estimated detect at concentration shown.
= Value Exceeds PAL

SYMBOL KEY

- Monitoring Well
- Groundwater Collection/Treatment Discharge Location
- Oil/Water Separator
- Water Treatment/ Trench Features
- Former Base Boundary
- Stream
- Approximate Location of PFCs above PALs
- FT002 Source OU
- FT-002/IA Groundwater Operable Unit
- Pit Location

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Building 171, Ste 155
JBSA Lackland, Texas 78236

FIGURE 5-3
Groundwater Sampling Results - PFOS/PFOA
Site Investigation Report
Former Plattsburgh Air Force Base, Plattsburgh, New York

0 100 200 400 600 800 1,000 Meters
0 500 1,000 2,000 3,000 4,000 Feet

N

Source:
2008 Aerial Imagery: USGS, The National Map (http://nationalmap.gov/viewer.html)

04/10/2015	Rev:	GW_Results
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TABLES

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Table 1-1
Project Action Limits for PFOA and PFOS Analysis
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base

Method/Instrument	Media	Project Action Limits*
LC/MS/MS	Surface Water Groundwater	PFOS 0.2 µg/L PFOA 0.4 µg/L
LC/MS/MS	Soil Sediment	PFOS 5 mg/kg PFOA 12 mg/kg

Notes:

LC/MS/MS = Liquid Chromatogrphy and Tandem Mass Spectrometry

µg/L = micrograms per liter

mg/kg = milligrams per kilogram

Project Action Limits = Surface Water/Groundwater: USEPA Office of Water 2009 issued Provisional Health Advisories (PHA) for drinking water.

Project Action Limits = Soil/Sediment: AFCEC-calculated screening values for soils and sediment derived from Office of Superfund Remediation and Technology Innovation (OSRTI) residential and direct contact criteria.

*PFHxS, PFHpA, PFNA, and PFBS do not have established PALs and are therefore not included in this table.

Table 4-1
FT002P PFC Sampling Summary
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base

Site ID	Monitoring Well Installations	Soil Borings	Soil Samples	Groundwater	Groundwater Treatment Plant Influent and Effluent	Sediment	Surface Water
FT002P	0	8	72	22	2	9	10
Quality Assurance (QA)/ Quality Control (QC) Samples	Field Duplicates (1:10)		8	3	1	1	1
	Field Blank (1 per lot of lab supplied water)		1	1	0	0	0
	Equipment Rinsates (Equipment Rinsates (1:10 each piece of sampling equipment)		8	2**	0*	1	0*
	MS/MSD (1:20)		5	3	1	1	1
	Grand Totals		**94**	**31**	**4**	**12**	**12**

Notes:

*No equipment rinsate sample required to be collected due to sample being collected from the influent/effluent sample ports and surface water directly into the sample bottle

**Perastaltic pumps did not need to be decontaminated due to dedicated tubing in each well

Field Blank is sample of PFC-free water. One sample per numbered lot and/or shipment from the laboratory was analyzed.

ID = Identification

MS/MSD = Matrix Spike / Matrix Spike Duplicate

QA/QC = Quality Assurance / Quality Control

Table 4-2
Surface Water Sampling – Field Parameters
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base

Location ID	Sample ID	Date	pH	Temperature (Celsius)	Specific Conductance (ms/CM)	Turbidity (ntu)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mv)
FT002P-009	PLTSB-SW-001	2-Oct-14	6.8	13	0.536	100	4.7	-47
FT002P-010	PLTSB-SW-002	2-Oct-14	7.8	13	0.553	NM	10	-80
FT002P-011	PLTSB-SW-003	1-Oct-14	7.8	14	0.516	4.1	11.8	28
FT002P-012	PLTSB-SW-004 PLTSB-SW-005	2-Oct-14 2-Oct-14	7.8	15	0.517	4.5	10.6	51
EFEFF-1	PLTSB-SW-006	2-Oct-14	7.6	16	0.354	1	06.1	-75
IA-NORTH	PLTSB-SW-007	30-Sep-14	7.9	15	0.755	10.2	9.6	15
POND_INLET	PLTSB-SW-008	29-Sep-14	7.4	16	0.336	19.7	5.7	-3.6
POND_OUTFALL	PLTSB-SW-010	29-Sep-14	8	16	0.345	4.3	9.1	140
SW-MNA-1	PLTSB-SW-011	1-Oct-14	7.8	15	0.586	8.3	9.2	160
SW-MNA-3A	PLTSB-SW-012 PLTSB-SW-013	1-Oct-14 1-Oct-14	7.9	15	0.659	5.5	9.09.4	160
FT002 - 013	PLTSB-INF-001	30-Sep-14	7.3	14	0.528	0.8	3.9	15
FT002 - 014	PLTSB-EFF-001	3-Oct-14	8.3	15	0.541	11.5	11.2	95

Notes:
ID = identification
ms/CM = millisiems per centimeter
ntu = nephelometric turbidity unit
mg/L = milligrams per liter
mv = millivolts
SW = surface water
INF = influent
EFF = effluent

Table 4-3
Groundwater Elevations and Monitoring Well Screen Intervals
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base

Location ID	Northing	Easting	Screen Interval (ft bgs)	Depth to Water (ft below top of casing)	Top of Casing Elevation (ft above MSL)	Water Elevation (ft above MSL) AMEC 2014	Water Elevation (ft above MSL) URS 2012[1]
MW-GWOU-15	1700018.2	724093.6	29-59	38.25	229.82	191.57	188.36
MW-GWOU-16	1700775.3	723857.3	17-47	32.43	226.1	193.67	190.1
MW-GWOU-23	1697723.7	726800.7	3-23	4.49	179.48	174.99	173.93
MW-GWOU-26	1700615	722219.5	30-45	32.48	250.21	217.73	217.39
MW-GWOU-27	1700610	722233.8	67-82	31.46	249.05	217.59	217.49
PRB-02	1695599.97	724302.7833	4-14	3.78	173.99	170.21	NM
PRB-15	1696671.59	728520.608	5.5-10.5	4.25	151.98	147.43	148.88
MW-02-008	1700606.74	721954.14	35.5-45.5	41.55	260.25	218.7	NM
MW-02-010	1700848.26	721783.9	41-51	43.74	263.74	220	NM
MW-02-017	1700753	722225.08	27-42	32.7	250.44	217.74	NM
MW-02-019	1700166.45	722797.86	9-24	16.04	227.93	211.89	NM
MW-02-046	1701299.8	725289.84	35.5-45.5	14.3	211.38	197.08	NM
MW-02-047	1700014.05	725831.25	25.5-35.5	8.07	199.59	191.52	NM
MW-02-073	1698529.21	726798.81	4-14	7.3	185.9	178.6	NM
MW-02-083	1698952.54	725357.25	38-53	21.14	208.11	186.97	NM
MW-02-084	1698974.07	725347.96	11-26	20.25	208.3	188.05	186.96
MW-11-004	1698092.95	729233.3	5-15	8	154.83	146.83	NM
MW-11-008	1698761.12	728083.45	4-14	6.71	173.76	167.05	NM
MW-12-001R	1699429.882	729788.276	3.5-13.5	13.25	152.65	139.4	NM
MW-22-003	1701280.61	720753.91	40-55	45.11	280.03	234.92	NM
MW-22-008	1701404.8	721708.96	82.5-92.5	46.86	266.7	221.09	NM
MW-02-094	1700339.8	722392.4	28-43	28.45	243.41	214.64	NM

Notes:
bgs = Below ground surface
ft = Feet
ID = Identification
MSL = Mean Sea Level
NM = Not Measured

[1]URS, June 2013. Semi-Annual Operations Report (July – December 2012) and 2012 Operations summary and Progress Assessment, FT-002/IA Groundwater Operable Unit including the East Flight line Collection Trench and the Idaho Avenue Collection Trench, June, 2013.

Table 4-4
Groundwater Sampling - Field Parameters
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base

Location ID	Sample ID	Date	Pump	Level (ft)	Purge Rate (ml/min)	pH	Temperature (celsius)	Specific Conductance (ms/CM)	Turbidity (ntu)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mv)
MW-GWOU-15	PLTSB-GW-001	2-Oct-14	Submersible	38.25	300	7.7	13	0.87	0.4	0.4	-110
MW-GWOU-16	PLTSB-GW-002	2-Oct-14	Submersible	32.43	300	6.9	12	1	2.2	0.4	43
MW-GWOU-23	PLTSB-GW-003	1-Oct-14	Peristaltic	4.49	160	7.8	16	0.29	2.5	0.4	-90
MW-GWOU-26	PLTSB-GW-004 PLTSB-GW-005	2-Oct-14 2-Oct-14	Submersible	32.48	350	6.5	10	0.55	5.6	0.3	-83
MW-GWOU-27	PLTSB-GW-006	2-Oct-14	Submersible	31.46	300	7.8	10	0.51	1.2	0.7	-86
PRB-02	PLTSB-GW-007	30-Sep-14	Peristaltic	3.78	200	7.6	15	0.22	1.3	8.6	90
PRB-15	PLTSB-GW-008	29-Sep-14	Peristaltic	4.25	180	7	17	0.94	2.9	0.3	-130
MW-02-008	PLTSB-GW-010	29-Sep-14	Submersible	41.55	350	6.4	14	1	18.2	0.8	-210
MW-02 -010	PLTSB-GW-011	1-Oct-14	Submersible	43.74	275	7	11	0.47	0.7	10.2	60
MW-02-017	PLTSB-GW-012 PLTSB-GW-013	1-Oct-14 1-Oct-14	Sumersible	32.7	400	7.3	10	0.4	1.4	9	61
MW-02-019	PLTSB-GW-014	2-Oct-14	Peristaltic	16.04	200	7.4	12	0.82	14.8	0.3	-150
MW-02-046	PLTSB-GW-015	2-Oct-14	Peristaltic	14.3	180	7.5	15	0.42	3.6	0.3	70
MW-02-047	PLTSB-GW-016	2-Oct-14	Peristaltic	8.07	180	7.8	14	0.23	2.8	0.3	-70
MW-02-073	PLTSB-GW-017	1-Oct-14	Peristaltic	7.30	200	6.4	15	0.402	1.6	4.2	140
MW-02-083	PLTSB-GW-018	2-Oct-14	Submersible	21.14	300	7.2	13	0.420	2.5	0.4	-92
MW-02-084	PLTSB-GW-019	2-Oct-14	Peristaltic	20.25	160	7.3	14	0.320	2.1	5.6	110

Table 4-4
Groundwater Sampling - Field Parameters
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base

Location ID	Sample ID	Date	Pump	Level (ft)	Purge Rate (ml/min)	pH	Temperature (celsius)	Specific Conductance (ms/CM)	Turbidity (ntu)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mv)
MW-11-004	PLTSB-GW-020	1-Oct-14	Persitaltic	8.00	200	6.9	13	0.640	5.4	0.4	-110
MW-11-008	PLTSB-GW-021	1-Oct-14	Peristaltic	6.71	200	6.9	16	6.60	6.0	0.2	-110
MW-12-001R	PLTSB-GW-022 PLTSB-GW-023	1-Oct-14	Persistaltic	13.25	160	6.5	14	0.680	1.6	0.5	-20
MW-22-003	PLTS-GW-024	3-Oct-14	Submersible	45.11	350	5.5	11	0.760	1.5	8.1	150
MW-22-008	PLTSB-GW-025	3-Oct-14	Submersible	46.86	300	7.9	12	0.240	13.0	0.1	-180
MW-02-094	PLTSB-GW-026	3-Oct-14	Submersible	28.45	220	7.3	12	0.34	3.8	0.2	-160

Notes:
ft = feet
GW = groundwater
ID = Identification
mg/L = milligrams per liter
ml/min = milliliters per minute
ms/CM = millisiems per centimeter
mv = millivolts
MW = monitoring well
ntu = nephelometric turbidity unit

Table 5-1
Summary of Soil Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-001	PLTSB-SO-001	06-Oct-14	0.0-1.0	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.021 U
	PLTSB-SO-002	06-Oct-14	3.0-5.0	N	0.01 U	0.01 U	0.01 U	0.01 U	0.06	0.02 U
	PLTSB-SO-003	06-Oct-14	8.0-10.0	N	0.01 U	0.01 U	0.01 U	0.01 U	0.00607 J	0.02 U
	PLTSB-SO-004	06-Oct-14	13.0-15.0	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
	PLTSB-SO-005	06-Oct-14	18.0-20.0	N	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.019 U
	PLTSB-SO-006	06-Oct-14	23.0-25.0	N	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.019 U
	PLTSB-SO-007	06-Oct-14	28.0-30.0	N	0.0089 U	0.0089 U	0.0089 U	0.0089 U	0.0089 U	0.018 U
	PLTSB-SO-008	06-Oct-14	33.0-35.0	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.021 U

Notes:
FD = Field Duplicate Sample
ft = Feet
ID = Identification
J = Estimated detect at concentration shown.
N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
mg/kg = micrograms per kilograms
UJ = Estimated non-detect at reporting limit shown.

Project Action Limit = USAF-calculated screening values for soils and sediments derived from Office of Superfund Remediation and Technology Innovation (OSRTI) residential and direct contact criteria.

Table 5-1
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PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-001	PLTSB-SO-009	06-Oct-14	38.0-40.0	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.021 U
FT002P-002	PLTSB-SO-010	07-Oct-14	0.0-1.0	N	0.0089 U	0.0089 U	0.00606 J	0.0089 U	0.0344	0.018 U
	PLTSB-SO-011	07-Oct-14	0.0-1.0	FD	0.0098 U	0.0098 U	0.00643 J	0.0098 U	0.0407	0.02 U
	PLTSB-SO-012	07-Oct-14	3.0-5.0	N	0.0089 U	0.0089 U	0.0293	0.0089 U	0.491	0.018 U
	PLTSB-SO-013	07-Oct-14	8.0-10.0	N	0.0093 U	0.0093 U	0.00904 J	0.0093 U	0.263	0.019 U
	PLTSB-SO-014	07-Oct-14	13.0-15.0	N	0.0088 U	0.0088 U	0.0166	0.0088 U	0.594	0.018 U
	PLTSB-SO-015	07-Oct-14	18.0-20.0	N	0.01 U	0.01 U	0.155	0.01 U	0.355	0.404
	PLTSB-SO-016	07-Oct-14	23.0-25.0	N	0.0094 U	0.00546 J	0.152	0.0094 U	0.0487	0.337 J

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Table 5-1
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PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

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				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-002	PLTSB-SO-017	07-Oct-14	28.0-30.0	N	0.0092 U	0.0092 U	0.108	0.0092 U	0.0415	0.227
	PLTSB-SO-018	07-Oct-14	33.0-35.0	N	0.0099 U	0.0099 U	0.0249	0.0099 U	0.00501 J	0.0435
	PLTSB-SO-019	07-Oct-14	38.0-40.0	N	0.011 U	0.011 U	0.0171	0.011 U	0.011 U	0.021 U
	PLTSB-SO-020	07-Oct-14	38.0-40.0	FD	0.0094 U	0.0094 U	0.0168	0.0094 U	0.0094 U	0.019 U
FT002P-003	PLTSB-SO-021	08-Oct-14	0.0-1.0	N	0.0089 U	0.0089 U	0.0089 U	0.0089 U	0.0089 U	0.018 U
	PLTSB-SO-022	08-Oct-14	0.0-1.0	FD	0.0083 U	0.0083 U	0.0083 U	0.0083 U	0.0083 U	0.017 U
	PLTSB-SO-023	08-Oct-14	3.0-5.0	N	0.0085 UJ	0.0085 UJ	0.0085 UJ	0.0085 UJ	0.013 J	0.017 UJ
	PLTSB-SO-024	08-Oct-14	8.0-10.0	N	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.021 UJ

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				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-003	PLTSB-SO-025	08-Oct-14	13.0-15.0	N	0.009 UJ	0.009 UJ	0.009 UJ	0.009 UJ	0.009 UJ	0.018 UJ
	PLTSB-SO-026	08-Oct-14	18.0-20.0	N	0.0091 UJ	0.0091 UJ	0.0091 UJ	0.0091 UJ	0.0091 UJ	0.018 UJ
	PLTSB-SO-027	08-Oct-14	23.0-25.0	N	0.0088 U	0.0088 U	0.0188	0.0088 U	0.0088 U	0.00958 J
	PLTSB-SO-028	08-Oct-14	28.0-30.0	N	0.011 U	0.011 U	0.0124 J	0.011 U	0.011 U	0.021 U
	PLTSB-SO-029	08-Oct-14	33.0-35.0	N	0.01 U	0.01 U	0.006 J	0.01 U	0.01 U	0.02 U
FT002P-004	PLTSB-SO-031	07-Oct-14	0.0-1.0	N	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0229	0.019 U
	PLTSB-SO-032	07-Oct-14	3.0-5.0	N	0.0097 U	0.0097 U	0.0218	0.0097 U	1.87	0.0137 J
	PLTSB-SO-033	07-Oct-14	3.0-5.0	FD	0.0082 U	0.0082 U	0.0201	0.0082 U	1.81	0.0121 J

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PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-004	PLTSB-SO-034	07-Oct-14	8.0-10.0	N	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.196	0.018 U
	PLTSB-SO-035	07-Oct-14	13.0-15.0	N	0.0091 U	0.0091 U	0.00489 J	0.0091 U	0.328	0.018 U
	PLTSB-SO-036	07-Oct-14	18.0-20.0	N	0.011 U	0.011 U	0.0149	0.011 U	0.506	0.021 U
	PLTSB-SO-037	07-Oct-14	23.0-25.0	N	0.0094 U	0.0094 U	0.0166	0.0094 U	0.0401	0.019 U
	PLTSB-SO-038	07-Oct-14	28.0-30.0	N	0.011 U	0.011 U	0.00687 J	0.011 U	0.00664 J	0.022 U
	PLTSB-SO-039	07-Oct-14	33.0-35.0	N	0.012 U	0.012 U	0.0106 J	0.012 U	0.012 U	0.023 U
	PLTSB-SO-040	07-Oct-14	38.0-40.0	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.023 U
	PLTSB-SO-041	07-Oct-14	38.0-40.0	FD	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U

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Summary of Soil Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-005	PLTSB-SO-042	08-Oct-14	0.0-1.0	N	0.01 U	0.01 U	0.01 U	0.01 U	0.0183	0.02 U
	PLTSB-SO-043	08-Oct-14	3.0-5.0	N	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.019 U
	PLTSB-SO-044	08-Oct-14	3.0-5.0	FD	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.016 U
	PLTSB-SO-045	08-Oct-14	8.0-10.0	N	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.02 UJ
	PLTSB-SO-046	08-Oct-14	13.0-15.0	N	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.02 U
	PLTSB-SO-047	08-Oct-14	18.0-20.0	N	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.017 U
	PLTSB-SO-048	08-Oct-14	23.0-25.0	N	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.019 U
	PLTSB-SO-049	08-Oct-14	28.0-30.0	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 U

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FD = Field Duplicate Sample
ft = Feet
ID = Identification
J = Estimated detect at concentration shown.
N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
mg/kg = micrograms per kilograms
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				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-006	PLTSB-SO-052	07-Oct-14	0.0-1.0	N	0.01 U	0.00728 J	0.046	0.01 U	1.43	0.018 J
	PLTSB-SO-053	07-Oct-14	3.0-5.0	N	0.01 U	0.01 U	0.00697 J	0.01 U	0.809	0.02 U
	PLTSB-SO-054	07-Oct-14	8.0-10.0	N	0.0083 U	0.0083 U	0.0191	0.0083 U	2.01	0.017 U
	PLTSB-SO-055	07-Oct-14	8.0-10.0	FD	0.0089 U	0.0089 U	0.0197	0.0089 U	2.17	0.018 U
	PLTSB-SO-056	07-Oct-14	13.0-15.0	N	0.0077 U	0.0077 U	0.0167	0.0077 U	2.2	0.015 U
	PLTSB-SO-057	07-Oct-14	18.0-20.0	N	0.0094 U	0.0094 U	0.011 J	0.0094 U	3.5	0.019 U
	PLTSB-SO-058	07-Oct-14	23.0-25.0	N	0.0095 U	0.0095 U	0.0191	0.0095 U	3.48	0.019 U
	PLTSB-SO-059	07-Oct-14	28.0-30.0	N	0.01 U	0.01 U	0.00999 J	0.01 U	0.97	0.02 U

Notes:
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Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-006	PLTSB-SO-060	07-Oct-14	33.0-35.0	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 U
	PLTSB-SO-061	07-Oct-14	38.0-40.0	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 U
	PLTSB-SO-062	07-Oct-14	38.0-40.0	FD	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.024 U
FT002P-007	PLTSB-SO-063	08-Oct-14	0.0-1.0	N	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.021 U
	PLTSB-SO-064	08-Oct-14	3.0-5.0	N	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.017 U
	PLTSB-SO-065	08-Oct-14	8.0-10.0	N	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.017 U
	PLTSB-SO-066	08-Oct-14	8.0-10.0	FD	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.017 U
	PLTSB-SO-067	08-Oct-14	13.0-15.0	N	0.0083 U	0.0083 U	0.0083 U	0.0083 U	0.0083 U	0.017 U

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				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-007	PLTSB-SO-068	08-Oct-14	18.0-20.0	N	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.019 U
	PLTSB-SO-069	08-Oct-14	23.0-25.0	N	0.0091 U	0.0091 U	0.0091 U	0.0091 U	0.187	0.018 U
	PLTSB-SO-070	08-Oct-14	28.0-30.0	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.021 U
	PLTSB-SO-071	08-Oct-14	28.0-30.0	FD	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.019 U
FT002P-008	PLTSB-SO-073	07-Oct-14	0.0-1.0	N	0.0097 U	0.0097 U	0.0623	0.0097 U	1.46	0.019 U
	PLTSB-SO-074	07-Oct-14	3.0-5.0	N	0.0094 U	0.0094 U	0.00528 J	0.0094 U	0.494	0.019 U
	PLTSB-SO-075	07-Oct-14	8.0-10.0	N	0.01 U	0.01 U	0.00537 J	0.01 U	0.968	0.021 U
	PLTSB-SO-076	07-Oct-14	8.0-10.0	FD	0.0091 U	0.0091 U	0.00596 J	0.0091 U	0.838	0.018 U

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				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-008	PLTSB-SO-077	07-Oct-14	13.0-15.0	N	0.01 U	0.01 U	0.0102 J	0.01 U	2.79	0.021 U
	PLTSB-SO-078	07-Oct-14	18.0-20.0	N	0.0098 U	0.0098 U	0.00904 J	0.0098 U	1.81	0.02 U
	PLTSB-SO-079	07-Oct-14	23.0-25.0	N	0.01 U	0.01 U	0.00993 J	0.00667 J	2.2	0.02 U
	PLTSB-SO-080	07-Oct-14	28.0-30.0	N	0.0088 U	0.0088 U	0.0088 U	0.00759 J	0.299	0.018 U
	PLTSB-SO-081	08-Oct-14	33.0-35.0	N	0.01 U	0.01 U	0.01 U	0.01 U	0.00928 J	0.021 U
	PLTSB-SO-082	08-Oct-14	33.0-35.0	FD	0.012 U	0.012 U	0.012 U	0.012 U	0.00936 J	0.024 U
	PLTSB-SO-083	08-Oct-14	38.0-40.0	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.021 U
	PLTSB-SO-084	08-Oct-14	38.0-40.0	FD	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.02 U

Notes:
FD = Field Duplicate Sample
ft = Feet
ID = Identification
J = Estimated detect at concentration shown.
N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
mg/kg = micrograms per kilograms
UJ = Estimated non-detect at reporting limit shown.

Project Action Limit = USAF-calculated screening values for soils and sediments derived from Office of Superfund Remediation and Technology Innovation (OSRTI) residential and direct contact criteria.

Table 5-2
Summary of Sediment Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FT002P-009	PLTSB-SD-001	30-Sep-14	0.0-0.3	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.023 U
FT002P-010	PLTSB-SD-002	30-Sep-14	0.0-0.3	N	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.034 U
	PLTSB-SD-003	30-Sep-14	0.0-0.3	FD	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.035 U
FT002P-011	PLTSB-SD-004	30-Sep-14	0.0-0.3	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.021 U
FT002P-012	PLTSB-SD-005	30-Sep-14	0.0-0.3	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.023 U
IA-NORTH	PLTSB-SD-007	29-Sep-14	0.0-0.1	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 U
POND_INLET	PLTSB-SD-008	29-Sep-14	0.0-0.3	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 U
POND_OUTFALL	PLTSB-SD-009	29-Sep-14	0.0-0.3	N	0.016 U	0.016 U	0.016 U	0.016 U	0.0243	0.032 U

Notes:
FD = Field Duplicate Sample
ft = Feet
ID = Identification
N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
mg/kg = micrograms per kilograms

Project Action Limit = USAF-calculated screening values for soils and sediments derived from Office of Superfund Remediation and Technology Innovation (OSRTI) residential and direct contact criteria.

Table 5-2
Summary of Sediment Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	5	12
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SW-MNA-1	PLTSB-SD-010	29-Sep-14	0.0-0.3	N	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.022 U
SW-MNA-3A	PLTSB-SD-011	29-Sep-14	0.0-0.3	N	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.024 U

Notes:
FD = Field Duplicate Sample
ft = Feet
ID = Identification
N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
mg/kg = micrograms per kilograms

Project Action Limit = USAF-calculated screening values for soils and sediments derived from Office of Superfund Remediation and Technology Innovation (OSRTI) residential and direct contact criteria.

Table 5-3
Summary of Surface Water Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	0.2	0.4
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EFEFF-1	PLTSB-SW-006	29-Sep-14	0.0-0.0	N	0.0111 J	0.0397	0.286 J	0.016 U	**0.52 J**	0.0825
FT002P-009	PLTSB-SW-001	30-Sep-14	0.4-0.4	N	0.0444	0.0409	0.663	0.016 U	0.157	0.166
FT002P-010	PLTSB-SW-002	30-Sep-14	0.3-0.3	N	0.0319	0.0893	1.24	0.016 U	0.188 J	**0.413 J**
	PLTSB-SW-003	30-Sep-14	0.3-0.3	FD	0.0351	0.0849	1.19	0.017 U	**0.317 J**	0.374 J
FT002P-011	PLTSB-SW-004	30-Sep-14	0.4-0.4	N	0.0352	0.0752	1.18	0.017 U	**0.41**	0.346
FT002P-012	PLTSB-SW-005	30-Sep-14	0.2-0.2	N	0.0283	0.0673	0.894	0.017 U	**0.334**	0.269
IA-NORTH	PLTSB-SW-007	29-Sep-14	0.0-0.0	N	0.016 U	0.0247	0.0866	0.016 U	0.165	0.0395 J
POND_INLET	PLTSB-SW-008	29-Sep-14	1.0-1.0	N	0.0141 J	0.0579	0.403	0.0137 J	**1.36**	0.117

Notes:
Purple Shaded = Exceeds Project Action Limit
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N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
µg/L = micrograms per liter

Project Action Limit = USEPA Office of Water, 2009, Provisional Health Advisories (PHAs) for drinking water.

Table 5-3
Summary of Surface Water Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	0.2	0.4
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
POND_OUTFALL	PLTSB-SW-009	29-Sep-14	3.0-3.0	N	0.0144 J	0.0582	0.412	0.0108 J	**0.949**	0.106
SW-MNA-1	PLTSB-SW-010	29-Sep-14	0.1-0.1	N	0.0194 J	0.0469	0.321	0.0128 J	**1.08**	0.0899
SW-MNA-3A	PLTSB-SW-011	29-Sep-14	0.0-0.2	N	0.017 U	0.0349	0.136	0.0101 J	**0.366**	0.0508

Notes:
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FD = Field Duplicate Sample
ft = Feet
ID = Identification
J = Estimated detect at concentration shown.
N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
µg/L = micrograms per liter

Project Action Limit = USEPA Office of Water, 2009, Provisional Health Advisories (PHAs) for drinking water.

Table 5-4
Summary of OU Groundwater Treatment System Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	0.2	0.4
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
FT002P-013	PLTSB-INF-001	30-Sep-14	0.0-0.0	N	0.0298	0.0947	1.49	0.016 U	**0.434**	**0.42**
FT002P-014	PLTSB-EFF-001	02-Oct-14	0.0-0.0	N	0.032	0.0998	1.29	0.017 U	**0.41 J**	**0.419 J**
	PLTSB-EFF-002	02-Oct-14	0.0-0.0	FD	0.0315	0.105	1.29	0.017 U	**0.399 J**	0.388 J

Notes:
Purple Shaded = Exceeds Project Action Limit
FD = Field Duplicate Sample
ft = Feet
ID = Identification
J = Estimated detect at concentration shown.
N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
µg/L = micrograms per liter

Project Action Limit = USEPA Office of Water, 2009, Provisional Health Advisories (PHAs) for drinking water.

Table 5-5
Summary of Groundwater Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	0.2	0.4
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-02-008	PLTSB-GW-010	03-Oct-14	82.5-92.5	N	15.8	18.3	607	8 U	**64**	**981**
MW-02-010	PLTSB-GW-011	01-Oct-14	41.0-51.0	N	0.00928 J	0.00853 J	0.241	0.017 U	0.017 U	0.0429
MW-02-017	PLTSB-GW-012	01-Oct-14	27.0-42.0	N	0.01 J	0.0145 J	3.01	0.017 U	0.0104 J	**0.409 J**
	PLTSB-GW-013	01-Oct-14	27.0-42.0	FD	0.00989 J	0.0151 J	3.24	0.017 U	0.0101 J	**0.436**
MW-02-019	PLTSB-GW-014	02-Oct-14	9.0-24.0	N	0.0285	0.0686	0.762	0.119 J	**20.7**	0.125
MW-02-046	PLTSB-GW-015	02-Oct-14	35.5-45.5	N	0.017 U	0.00849 J	0.0483	0.017 U	0.0782	0.0267 J
MW-02-047	PLTSB-GW-016	02-Oct-14	25.5-35.5	N	0.017 U	0.0404	0.0877	0.0156 J	**0.211**	0.0861
MW-02-073	PLTSB-GW-017	01-Oct-14	4.0-14.0	N	0.016 U	0.0351	0.234	0.0105 J	**0.337**	0.0386 J

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U = Non-detect at reporting limit shown.
µg/L = micrograms per liter

Project Action Limit = USEPA Office of Water, 2009, Provisional Health Advisories (PHAs) for drinking water.

Table 5-5
Summary of Groundwater Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	0.2	0.4
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-02-083	PLTSB-GW-018	02-Oct-14	38.0-53.0	N	0.016 U	0.016 U	0.0648	0.016 U	0.0116 J	0.0241 J
MW-02-084	PLTSB-GW-019	02-Oct-14	11.0-26.0	N	0.0218	0.0991	0.697	0.016 U	0.0709	0.276
MW-02-094	PLTSB-GW-026	03-Oct-14	27.0-37.0	N	0.017 U	0.017 U	0.0145 J	0.017 U	0.028	0.033 U
MW-11-004	PLTSB-GW-020	01-Oct-14	5.0-15.0	N	0.016 U	0.00824 J	0.118	0.016 U	**0.235**	0.0231 J
MW-11-008	PLTSB-GW-021	01-Oct-14	4.0-14.0	N	0.017 U	0.0167 J	0.114	0.017 U	**0.301**	0.0283 J
MW-12-001R	PLTSB-GW-022	01-Oct-14	3.5-13.5	N	0.016 U	0.016 U	0.116	0.016 U	**0.348**	0.0204 J
	PLTSB-GW-023	01-Oct-14	3.5-13.5	FD	0.016 U	0.016 U	0.113	0.016 U	**0.361**	0.0202 J
MW-22-003	PLTSB-GW-024	03-Oct-14	40.0-55.0	N	0.016 U	0.0109 J	0.00973 J	0.016 U	0.016 U	0.0196 J

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µg/L = micrograms per liter

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Table 5-5
Summary of Groundwater Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	0.2	0.4
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-22-008	PLTSB-GW-025	03-Oct-14	82.5-92.5	N	0.016 U	0.016 U	0.0172 J	0.016 U	0.016 U	0.0343 J
MW-GWOU-15	PLTSB-GW-001	02-Oct-14	29.0-59.0	N	0.017 U	0.017 U	0.115	0.017 U	**0.575**	0.0441
MW-GWOU-16	PLTSB-GW-002	02-Oct-14	17.0-47.0	N	0.016 U	0.0109 J	0.0463	0.016 U	0.016 U	0.032 U
MW-GWOU-23	PLTSB-GW-003	01-Oct-14	3.0-23.0	N	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.032 U
MW-GWOU-26	PLTSB-GW-004	02-Oct-14	30.0-45.0	N	0.238	0.185	12.7	0.016 U	**1.5**	**3.82**
	PLTSB-GW-005	02-Oct-14	30.0-45.0	FD	0.221	0.181	12.5	0.016 U	**1.57**	**3.84**
MW-GWOU-27	PLTSB-GW-006	02-Oct-14	67.0-82.0	N	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.032 U
PRB-02	PLTSB-GW-007	30-Sep-14	4.0-14.0	N	0.016 U	0.0126 J	0.016 U	0.016 U	0.119	0.0391 J

Notes:
Purple Shaded = Exceeds Project Action Limit
FD = Field Duplicate Sample
ft = Feet
ID = Identification
J = Estimated detect at concentration shown.
N = Normal Field Sample
NA = Not applicable
U = Non-detect at reporting limit shown.
µg/L = micrograms per liter

Project Action Limit = USEPA Office of Water, 2009, Provisional Health Advisories (PHAs) for drinking water.

Table 5-5
Summary of Groundwater Analytical Testing Results
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base, New York

				Analyte:	Perfluorobutanesulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)
				Project Action Limit:	NA	NA	NA	NA	0.2	0.4
Location	**Sample ID**	**Sample Date**	**Sample Depth (ft.)**	**Sample Type**	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PRB-15	PLTSB-GW-008	29-Sep-14	5.5-10.5	N	0.017 U	0.00941 J	0.107	0.017 U	0.0314	0.0176 J

Notes:
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N = Normal Field Sample
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Table 6-1
Conceptual Site Model Summary
PFC Release Determination
Site Investigation Report, Former Plattsburgh Air Force Base

Facility Profile	Physical Profile	Release Profile	Land Use and Exposure Profile	Ecological Profile
Installation Description: • Investigation Area ~ 980 acres, including the 8 acre FTA and the groundwater plume. • Former Plattsburgh AFB ~ 3,447 acres • Located in the extreme northeast corner of New York, 20 miles south of the Canadian border. It is located on the western shore of Lake Champlain opposite Burlington, Vermont, in the city of Plattsburgh, New York. • Installation mission was as a tactical wing in the SAC from 1955 to 1991, when it was reassigned as an Air Refueling Wing under the Air Mobility Command (AMC) until base closure in 1995. **FT002P History:** • The FT002P was used from mid-to late-1950s through 1989. • Fire training activities were conducted in 4 historical fire pits. • Fires were ignited in fire pits with a variety of combustible materials including fuel-related compounds and chlorinated compounds (solvents and degreasers). • FT002P is being managed as two operable units. **FT002 Source OU** • The Source OU focuses on free product and contaminated soils. • Remedial objectives are: 1) to clean up contaminated soil and residual product located in the vadose zone and in the zone of water table fluctuation to concentrations less than or equal to remediation goals set for the site and 2) to recover floating free product of the site to the extent practicable. **FT002/Industrial Area Groundwater OU** • The Groundwater OU focuses on groundwater plume originating at FT002P and expanding under the airfield and into the industrial area. • The action for the Groundwater OU addresses the principal threats by restoring the aquifer to drinking water quality over time, and by controlling and treating groundwater discharge to surface water bodies.	**Site Characteristics:** • FT002P is ~ 8 acres of land **Topography:** • The installation is relatively flat • FT002P is relatively flat • Topographic depression to the south-southeast of FT002 • Large drainage basin located between the runway and flight apron southeast of FT002 **Vegetation:** • FT002P has low grass vegetation. Drainage swales and tributaries to Salmon River and the golf course are bordered by wetland vegetation. **Surface Water:** • Drainage ways carry surface water runoff into sewers and streams that ultimately discharge into the Saranac River to the north, the Salmon River to the south or Lake Champlain to the east. • The largest surface water drainage systems are the golf course and the WSA drainage systems. **Soils:** • Soils throughout the installation consist of medium to coarse sands and are well drained. **Geology:** • Glacial and alluvial sands are the most widespread surficial deposits and include very fine- to- coarse-grained sand with interbeds of sand and gravel. • At the FT002P source area, surficial deposits down to 85 ft bgs consisting of poorly graded medium-to-fine sand with a trace to some silt and dark mineral laminations. The sand being interpreted as near-shore marine delta and beach deposits. • Deep water marine deposits (clay) are encountered at 85 to 90 ft bgs with glacial till consisting of well graded clay and silt sized particles to gravels encountered at 90 to 120 ft bgs. The clay layer increases in thickness moving to the west from the east across FT002P. • Bedrock is encountered at approximately 120 ft bgs at the FT002P source area and varies across the Groundwater OU with surface outcroppings along the eastern edge of the Groundwater OU. • Bedrock is comprised of limestone and dolomite with interbedded layers of sandstone and shale.	**Contaminants of Potential Concern:** • PFCs are the contaminants of potential concern for this investigation; however, fuel related compounds and chlorinated solvents are historical site contaminants. **Media of Potential Concern:** • Soil, groundwater, surface water and sediment. **Confirmed AFFF Releases:** • AFFF was used weekly in fire training activities between 1970 and 1989, using an unknown amount of AFFF during each event (Radian 1985). **Primary Release Pathways from FTA:** • PFCs have been released into the ground and have leached through the soil into groundwater. • PFCs are adsorbed in soil particles and remain close to the source. • PFCs are present at the groundwater to surface water interface, in the surface water and in the sediments. • PFCs are being released with Groundwater OU Treatment Plant Effluent to surface water. **Secondary Release Pathways from FTA:** • Treated effluent of groundwater collected from the Source OU treatment plant (historically) and Runway/Flight Line Trench (currently) is discharged to the unnamed stream in the former WSADA. The treated effluent contains PFCs. • Untreated groundwater collected from the East Flight Line and Idaho Avenue Trenches is discharged to two separate tributaries of the GCDA. The discharged groundwater contains PFCs.	**Current Landowners:** • Plattsburgh International Airport is owned and operated by Clinton County, New York. • Private landowners occupy small portions of the property along the eastern portion of the Groundwater OU. • Properties east of Arizona Ave. are privately owned. **Current Land Use:** • The FT002P site is currently part of the Plattsburgh International Airport. **Future Land Use:** • Land use is not expected to change in the future. **Potential Receptors:** • Potential receptors associated with current and future land use include onsite workers, residents, recreation users, and biota. • Other potential receptors: downgradient private drinking water wells and recreational anglers fishing in the unnamed streams in the GCDA and WSADA, as they could possibly be exposed to PFCs via the consumption of fish caught in these unnamed streams.	**Potential Ecological Receptors:** • In the 1993 FT002P Soil Remedial Investigation Report, it was determined that there is a risk to the five receptor species evaluated (white-footed mouse, wood thrush, garter snake, red fox and red-tailed hawk) resulting from exposure to surface soil and food sources and because the determined Hazard Indices were greater than 1 for small mammals, small birds, herpetofauna, and predatory birds, that it was also possible that population-level effects were occurring. • Ecological receptors such as beavers and fish living in the unnamed streams in the two primary drainages. **Threatened and Endangered Species:** • According to the 1995 Environmental Impact Statement (EIS), there are no federal-listed threatened, endangered, or candidate plant or wildlife species on Plattsburgh AFB. • The 1995 EIS stated that there are four state-listed bird species that have been observed on or near this area: the northern harrier and the osprey, listed as “threatened”; the great blue heron, listed as “protected”; and the grasshopper sparrow, listed as a “species of special concern”. • It was noted in the 1995 EIS, that a colony of grasshopper sparrows was present in the flightline grassland at that time.

Facility Profile	Physical Profile	Release Profile	Land Use and Exposure Profile	Ecological Profile
Surface Water Bodies • The GCDA - sources of drainage are storm water drains, groundwater and precipitation. The Golf Course Drainage system consists of small streams and artificial ponds located on the golf course. The flow from these sources coalesces into a single stream that exits the base, discharging into Lake Champlain. The GCDA receives water from the Idaho Ave. groundwater collection trench and the East Flightline groundwater collection trench. • WSADA -located in the southwestern portion of the former base, source of drainage are storm water drains (from the runway and areas south of landfill LF-023), groundwater, discharge from FT002 Groundwater OU Treatment Plant and precipitation. Drainage from these sources combine into an unnamed stream and discharges into the Salmon River.	**Hydrogeology:** • Depth to groundwater ranges from 6 to 42 ft bgs. • Golf Course Drainage – precipitation drainage is from overland flow from the golf course and adjacent vegetated areas and from the flightline ramp and industrial area. o Due to thinning of the unconfined sand aquifer in the southeastern portion of the former base, groundwater discharges into the streams, ponds and ground surface in the vicinity of the golf course. o Flow is generally from the west directions to the east, discharging to the east into Lake Champlain. • WSA Drainage-precipitation drainage is from direct overland flow and collected runoff discharged to the drainage area via storm drains. o Groundwater is discharged into a topographic basin between the runway and flightline ramp and is carried by a storm drain directly into a tributary of the Weapons Storage Area Drainage. o Flow is generally from the north and west directions to the south, discharging to the south into the Salmon River. **Meteorology:** • Average Annual Rainfall = 34 in. per year.			

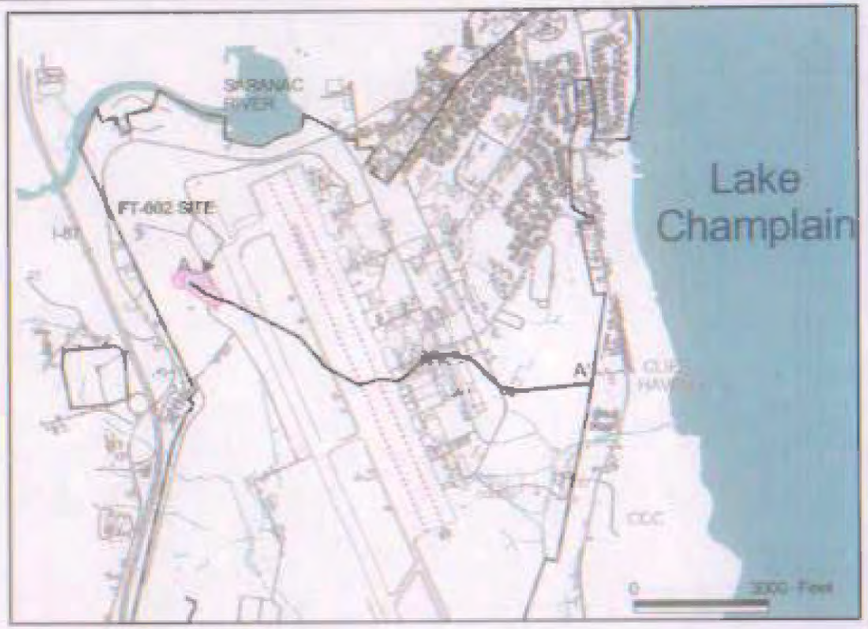
APPENDIX A

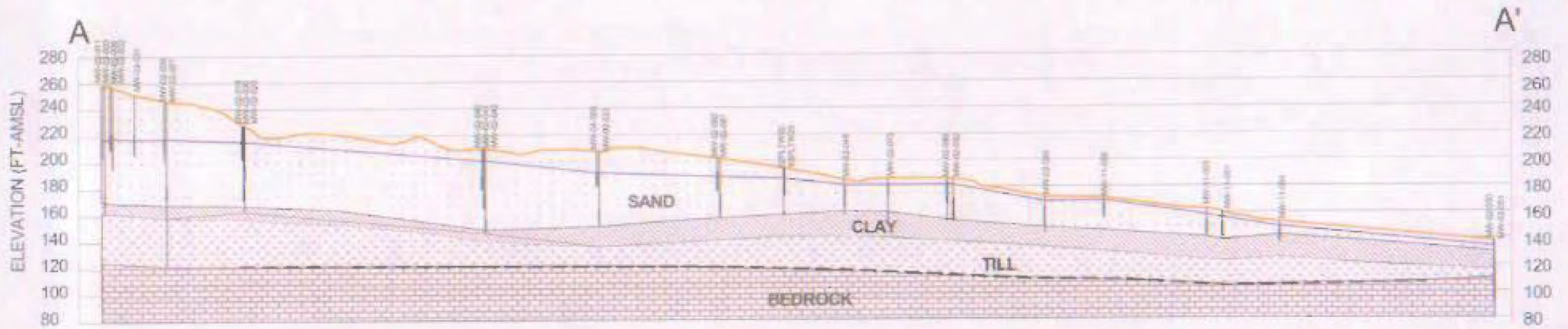
FIGURES FROM RI/FS REPORT

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Legend

- Water Table Surface
- Ground Surface
- Estimated Surface, No Data Available
- Sand
- Clay
- Till
- Bedrock





NOTE:
Geologic Cross Section developed using sections through Ground Surface, Water Table, Top of Clay, and Top of Till contour maps. Well boring data from Appendix H was also utilized, where available. Actual conditions may vary from those shown.

750 0 750 Feet

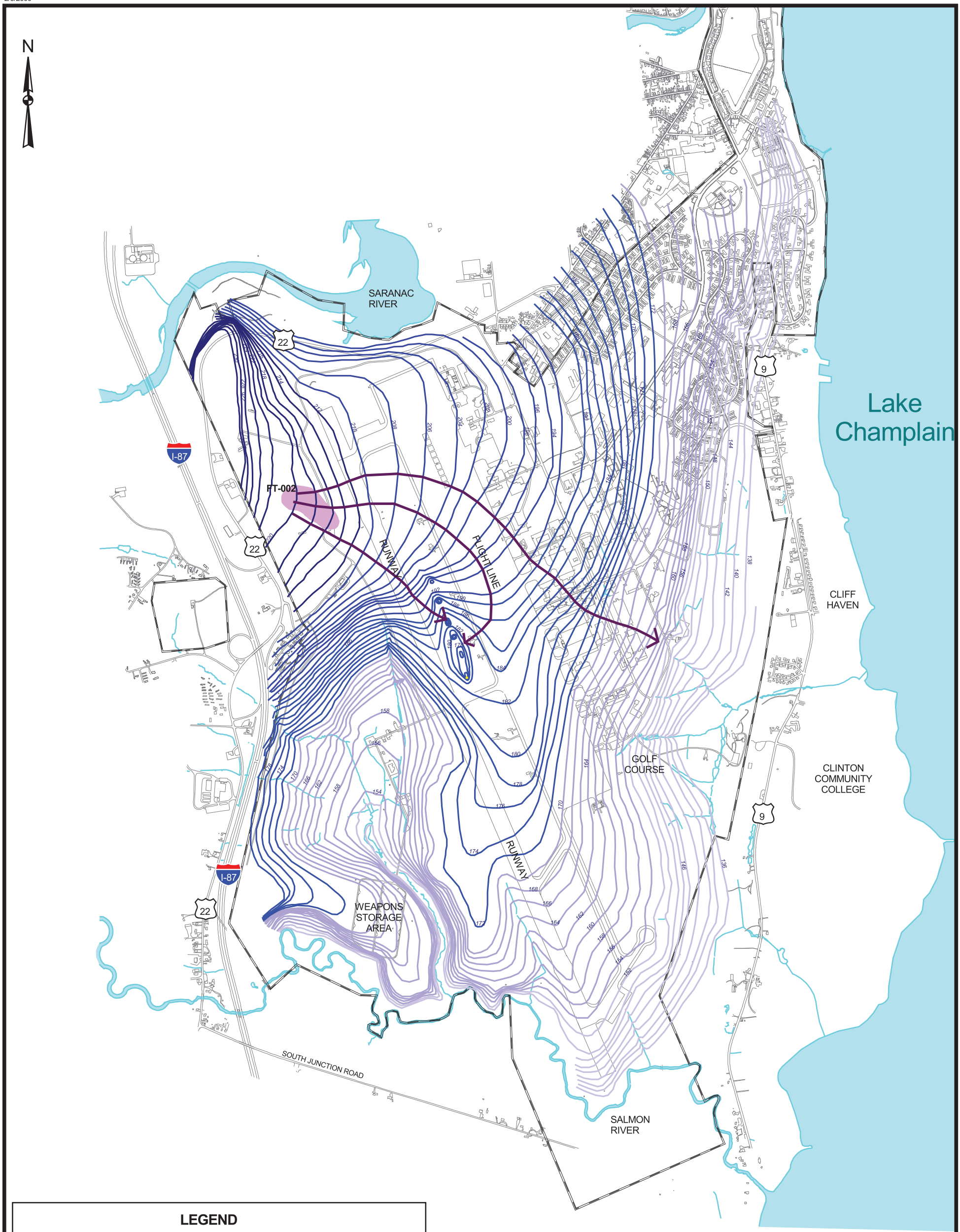
PLATTSBURGH AFB
GEOLOGIC CROSS SECTION

URS Consultants, Inc.

FIGURE 3-7

1851187

J:\0100013\DB\GIS\1999\geo1117.apr WATER TABLE
2/5/2000



LEGEND

Groundwater Flow

FT-002 Potential Sources

Base Boundary

POTENTIOMETRIC CONTOURS
(feet above mean sea level)

136 - 152 ft.
153 - 170 ft.
171 - 190 ft.
191 - 210 ft.
211 - 230 ft.

1. This map was generated from 1996 and 1997 groundwater elevation data and shows generalized groundwater flow patterns in the unconfined aquifer.
2. Contour interval = 2 feet.

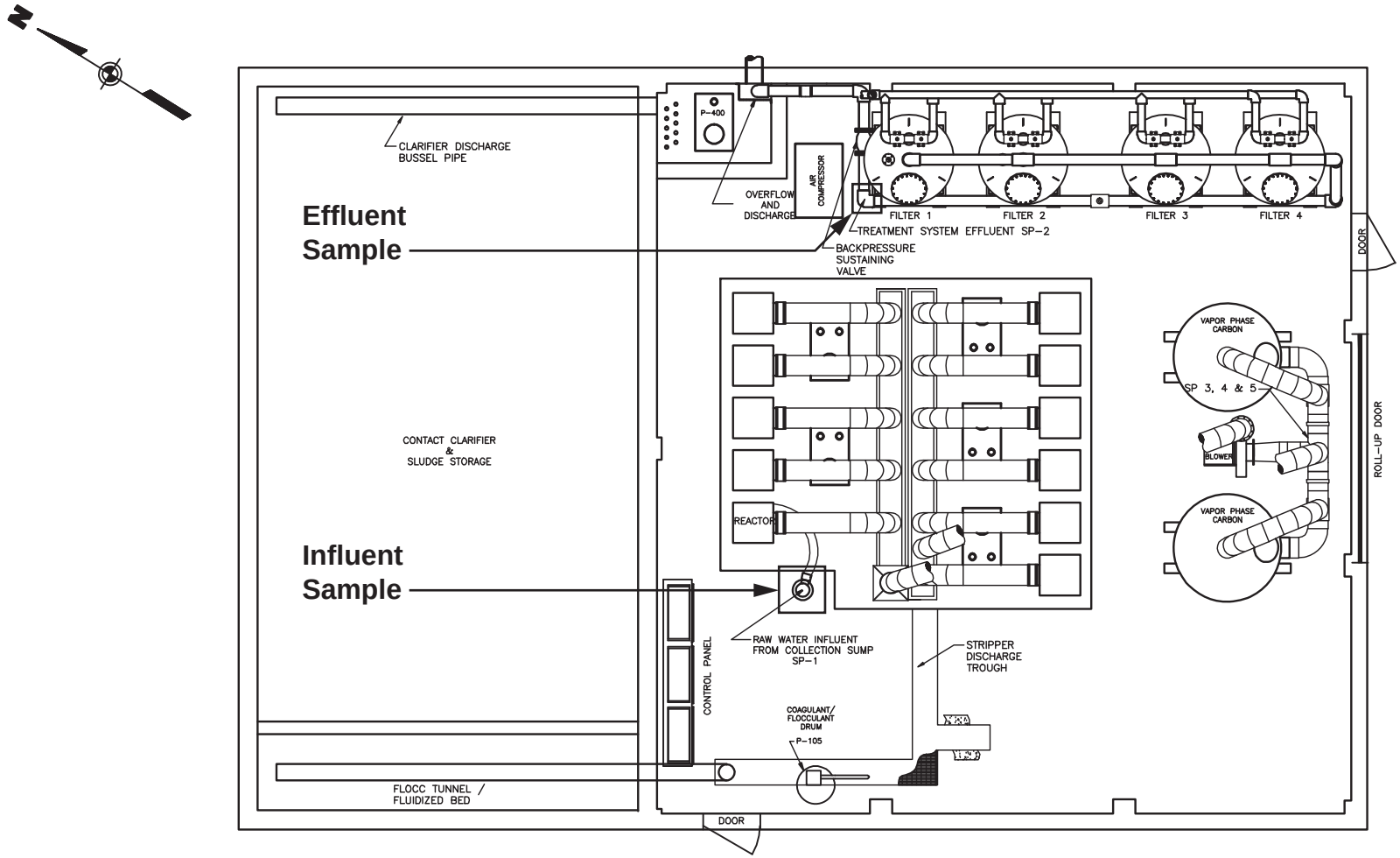
NOTE: The features shown above were inferred from field data using standardly accepted geological practices and principles. Extrapolations between data points may vary from actual conditions.

1800 0 1800 Feet

URS Consultants, Inc.	PLATTSBURGH AIR FORCE BASE GROUNDWATER POTENTIOMETRIC CONTOURS (WATER TABLE) FOR THE UNCONFINED AQUIFER	PLATE 3-12

AC-19143

N:11173369.00000\CAD\HAZLETON AS BUILTS\ 1=1 11/09/06-1 RMB



WATER TREATMENT BUILDING

0' 4' 8' 12' 16'

REFERENCE:

HAZLETON ENVIRONMENTAL, DRAWING NO. D-03S002-0102, REV-5, 12/30/03 (FINAL AS BUILT).

URS	PLATTSBURGH AIR FORCE BASE FT-002/IA GROUNDWATER OU WATER TREATMENT BUILDING LAYOUT	FIGURE 5

J:\0100013\DB\GIS\1999\geo1117.apr BEDROCK
2/5/2000

N

SARANAC RIVER

Lake Champlain

CLIFF HAVEN

CLINTON COMMUNITY COLLEGE

GOLF COURSE

WEAPONS STORAGE AREA

FLIGHT LINE

RUNWAY

RUNWAY

SOUTH JUNCTION ROAD

SALMON RIVER

FT-002

SEISMIC LINE 103

SEISMIC LINE 102

SEISMIC LINE 101

22

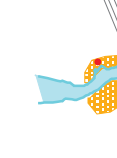
I-87

9

159.62
153.00
129.50
121.80
201.28
120.00
109.06
113.91
106.76
115.65
96.78
143.97
99.97
79.43
25.47
7.46
141.00
18.30
100.00
-19.17
-67.77

AZ-1
AZ-2
AZ-3
AZ-4
AZ-5
AZ-6
AZ-7

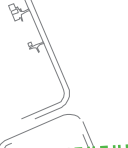














LEGEND

- 100.00 — Bedrock elevation (feet above mean sea level) from borehole data (Appendix H), bedrock elevations in black
- 278 — Bedrock outcrops identified during field reconnaissance, bedrock elevations in red
- Approximate normal fault location (based upon "Geology of the Plattsburgh and Rouses Point, New York-Vermont Quadrangles", Donald Fisher, New York State Museum Map and Chart Series #10)
- A — A' / 80 — Geophysical survey line (Malcolm Pirnie 1996 in Appendix F2), estimated bedrock elevations in blue
- SEISMIC LINES 101 / 77 — Geophysical survey lines (Gardner Lee 1996 in Appendix F1), estimated bedrock elevations in green
- AZ-6 — Azimuthal Resistivity Survey Locations (Appendix F3)
- Base Boundary

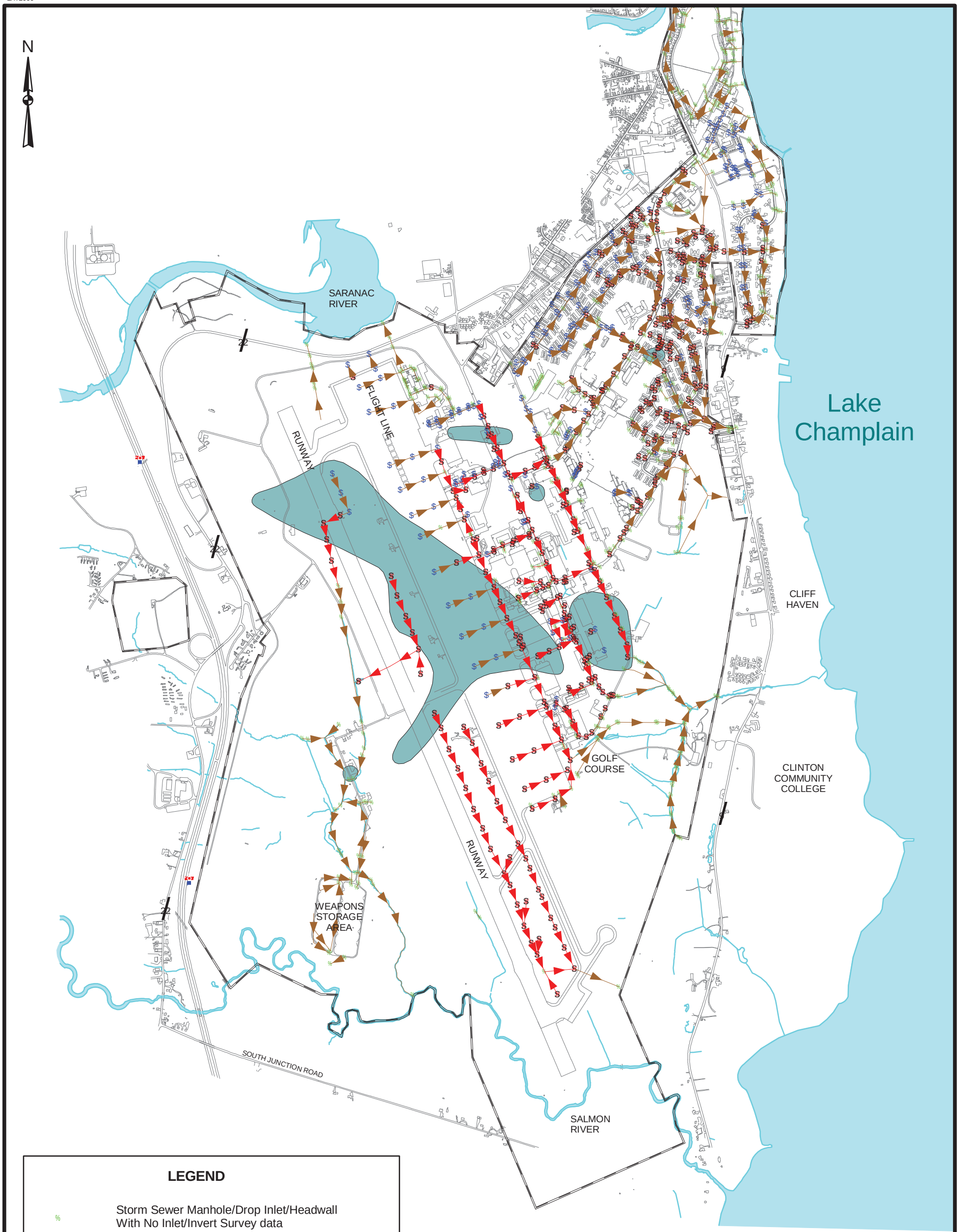
1800 0 1800 Feet

URS
Consultants, Inc.

PLATTSBURGH AIR FORCE BASE
BEDROCK FEATURES

PLATE 3-9

J:\0100013\DB\GIS\1999\sewer.apr STORM SEWER11 X 17
2/7/2000



LEGEND

- % — Storm Sewer Manhole/Drop Inlet/Headwall With No Inlet/Invert Survey data
- $ — Storm Sewer Manhole/Drop Inlet With Inverts Located Above Water Table
- $ — Storm Sewer Manhole/Drop Inlet With Inverts Located Below Water Table
- Estimated Areal Extent of Chlorinated Hydrocarbon Contamination (10 ug/L isopleth)
- Storm Drainage With Flow Direction
- Base Boundary

NOTE: Storm sewer data compiled from PAFB Comprehensive Storm Sewer Drainage Plan (Attachment A). Storm drainage invert elevations were compared to the groundwater potentiometric surface shown on Plate 3-12.

1800 0 1800 Feet

URS Consultants, Inc.	PLATTSBURGH AIR FORCE BASE STORM SEWER LOCATIONS	PLATE 3-1a

APPENDIX B

PHOTOGRAPHS

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Photograph Log



1. SW-MNA-1 is located about 1,000 ft SE and downstream of SW-MNA-3A. It is located along the installation boundary in the unnamed stream that flows to the east and discharges into Lake Champlain.



2. SW-MNA-3A is located about 1,000 ft SE and downstream of IA-NORTH along the same drainage. The sample was collected at a depositional area at a bend in the stream.



3. Looking N at two- six inch culverts at IA-NORTH. IA-North is a manhole that serves the Idaho Avenue Groundwater Collection Trench. The water flows from the northern portion of the Idaho Avenue Groundwater Collection Trench into the manhole then continues south in the collection trench.



4. The Pond Outfall is located at the tailwater of the aeration pond, about 2,000 ft SW of IA-NORTH. The flow at this location is held back by a dam.



5. Looking S at the POND OUTFALL location. The aeration bubbling affect takes place due to the ongoing VOC plume treatment.



6. Looking NW at great on culvert at POND INLET. The POND INLET is located at the headwater of the aeration pond. The drainage from EFEFF-1 enters the aeration pond through a weir and flows into the pond.



7. Metallic sheen on surface water at POND OUTLET.



8. EFEFF-1 located about 200 ft SW of POND INLET and is a manhole that accesses the East Flightline Collection Trench. The groundwater enters this location and is redirected to the pond inlet.



9. FT002P-12 is located about 2,000 ft S and downgradient of FT002P-011 along the same drainage.



10. FT002P-12 is located at the bridge in the WSA, located approximately 4500 ft downstream of the discharge point for the Groundwater OU Treatment Plant, and the most downgradient sample collected in the unnamed stream.



11. FT002P-011 looking N at the culvert approximately 500 ft downstream of the discharge point for the Groundwater OU Treatment Plant.



12. Looking N at the Groundwater OU Treatment Plant where influent and effluent samples were collected from.



13. FT002P-10 is located at the discharge point for the Groundwater OU Treatment Plant.



14. FT002P-10 is about 1,000 ft S of FT002P-009.



15. FT002P-09 is located about 1,000 ft N of FT002P-010 and is in a small culvert that was once the Historic FT002 Source OU Groundwater Treatment Plant discharge point. The drainage pipe area is overgrown with phragmites and was covered in silt and organic debris. The flow was steady from the discharge pipe and quickly dissipated into the phragmites.



16. The influent sample was collected from inside the Groundwater OU Treatment Plant building. The treatment plant receives groundwater impacted with chlorinated hydrocarbons from the Groundwater OU and discharges the treated effluent to the unnamed stream.



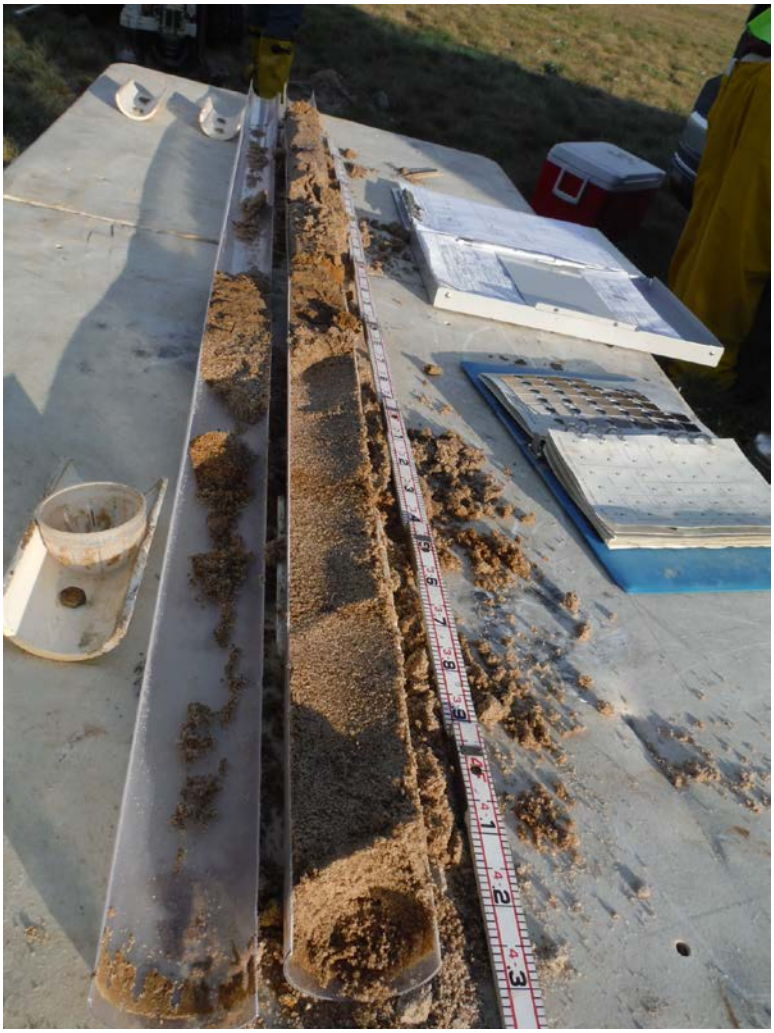
17. Teflon tape present close to the influent sampling port.



18. Teflon tape present close to the effluent sampling port.



19. Layers of gray and orange in a soil boring at FT002-008. Depth: ~27' bgs.



20. Soil boring at FT002-008.



21. Soil boring at FT002-003. Dark gray silty sand represents beginning of water table.

APPENDIX C

FIELD FORMS

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APPENDIX C-1

DAILY HEALTH AND SAFETY TAILGATE FORM

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AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☐ Initial Kickoff Safety Meeting ☑ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 7/8/14 Site: Plattsburgh

Field Manager: Mike Lounsbury *(print)* Site Health and Safety Coordinator: Danielle Lerner *(print)*

Order of Business

Topics Discussed (check all that apply):

- ☐ Site History/Site Layout
- ☐ Scope of Work
- ☐ Personnel Responsibilities
- ☐ Medical Surveillance Requirements
- ☐ Training Requirements
- ☑ Safe Work Practices
- ☐ Logs, Reports, Recordkeeping
- ☐ Sanitation and Illumination
- ☐ Air Surveillance Type and Frequency
- ☐ Monitoring Instruments and Personal Monitoring
- ☐ Action Levels
- ☐ Accident Reporting Procedures
- ☑ Site Control (visitor access, buddy system, work zones, security, communications)
- ☐ Discussion of previous "near misses" including work crew suggestions to correct work practices to avoid similar occurrences
- ☐ Engineering Controls
- ☑ PPE Required/PPE Used
- ☐ Define PPE Levels, Donning, Doffing Procedures
- ☐ Physical Hazards and Controls (e.g., overhead utility lines)
- ☐ Decontamination Procedures for Personnel and Equipment
- ☐ General Emergency Procedures (e.g., locations of air horns and what 1 or 2 blasts indicate)
- ☐ Site/Regional Emergency Procedures (e.g., earthquake response, typhoon response, etc.)
- ☐ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☐ Hazardous Materials Spill Procedures
- ☐ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☐ Injury/Illness Reporting Procedures
- ☐ Route to Hospital and Medical Care Provider Visit Guidelines
- ☐ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: It is raining - be safe and responsible! Avoid slips, trips, and falls. Listen for thunder/lightening.

Action taken on previous suggestions: Be careful in the rain. Wear PPE at all times.

Injuries/accidents/personnel changes since previous meeting: None

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

Observations of unsafe work practices/conditions that have developed since previous meeting: none

Location of (or changes in the locations of) evacuation routes/safe refuge areas: none

Additional comments: None

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Mike Mizwicki	NEBC	
Carl Dawnica	NEBC	
Michael H. Lowitz	AMEC	
Danielle Lerner	AMEC	
Sean Eldredge	CNTS (AF)	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: Time: 0715

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☑ Initial Kickoff Safety Meeting ☐ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 9/29/14 Site: Plattsburgh

Field Manager: Michael Lounsbury (print) Site Health and Safety Coordinator: Danielle Lerner (print)

Order of Business

Topics Discussed (check all that apply):

- ☑ Site History/Site Layout
- ☑ Scope of Work
- ☑ Personnel Responsibilities
- ☑ Medical Surveillance Requirements
- ☑ Training Requirements
- ☑ Safe Work Practices
- ☑ Logs, Reports, Recordkeeping
- ☑ Sanitation and Illumination
- ☑ Air Surveillance Type and Frequency
- ☑ Monitoring Instruments and Personal Monitoring
- ☑ Action Levels
- ☑ Accident Reporting Procedures
- ☑ Site Control (visitor access, buddy system, work zones, security, communications)
- ☑ Discussion of previous "near misses" including work crew suggestions to correct work practices to avoid similar occurrences
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- ☑ PPE Required/PPE Used
- ☑ Define PPE Levels, Donning, Doffing Procedures
- ☑ Physical Hazards and Controls (e.g., overhead utility lines)
- ☑ Decontamination Procedures for Personnel and Equipment
- ☑ General Emergency Procedures (e.g., locations of air horns and what 1 or 2 blasts indicate)
- ☑ Site/Regional Emergency Procedures (e.g., earthquake response, typhoon response, etc.)
- ☑ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☑ Hazardous Materials Spill Procedures
- ☑ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☑ Injury/Illness Reporting Procedures
- ☑ Route to Hospital and Medical Care Provider Visit Guidelines
- ☑ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: When in doubt, change your gloves. Do not rush, take your time and access every situation.

Action taken on previous suggestions: N/A

Injuries/accidents/personnel changes since previous meeting: N/A

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

Observations of unsafe work practices/conditions that have developed since previous meeting: N/A

Location of (or changes in the locations of) evacuation routes/safe refuge areas: N/A

Additional comments: None

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Danielle Lerner	AMEC	
Michael W. Lounsbury	AMEC	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: Time: 0745

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☐ Initial Kickoff Safety Meeting ☑ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 9/30/14 Site: Plattsburgh

Field Manager: Michael Counsbury (print) Site Health and Safety Coordinator: Danielle Lerner (print)

Order of Business

Topics Discussed (check all that apply):

- ☐ Site History/Site Layout
- ☐ Scope of Work
- ☑ Personnel Responsibilities
- ☐ Medical Surveillance Requirements
- ☐ Training Requirements
- ☐ Safe Work Practices
- ☑ Logs, Reports, Recordkeeping
- ☐ Sanitation and Illumination
- ☐ Air Surveillance Type and Frequency
- ☐ Monitoring Instruments and Personal Monitoring
- ☐ Action Levels
- ☐ Accident Reporting Procedures
- ☑ Site Control (visitor access, buddy system, work zones, security, communications)
- ☐ Discussion of previous "near misses" including work crew suggestions to correct work practices to avoid similar occurrences
- ☐ Engineering Controls
- ☐ PPE Required/PPE Used
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- ☐ Decontamination Procedures for Personnel and Equipment
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- ☐ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☐ Hazardous Materials Spill Procedures
- ☐ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☐ Injury/Illness Reporting Procedures
- ☐ Route to Hospital and Medical Care Provider Visit Guidelines
- ☐ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: Always make sure everything in our logs is completely filled out - take our time with things - look out for our wildlife (ticks, bees, etc.)

Action taken on previous suggestions: changed gloves often

Injuries/accidents/personnel changes since previous meeting: N/A

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

Observations of unsafe work practices/conditions that have developed since previous meeting: ~~N/A~~ (OK) None

Location of (or changes in the locations of) evacuation routes/safe refuge areas: None

Additional comments: None

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Danielle Lerner	AMEC	
[illegible]	AMEC	
David Farnsworth	AFCEC	
Robert Singer	AMEC	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: [signature] Time: 0715

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☐ Initial Kickoff Safety Meeting ☑ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 10/1/14 Site: Plattsburgh

Field Manager: Michael Lounsbury *(print)* Site Health and Safety Coordinator: Danielle Lerner *(print)*

Order of Business

Topics Discussed (check all that apply):

- ☐ Site History/Site Layout
- ☐ Scope of Work
- ☐ Personnel Responsibilities
- ☐ Medical Surveillance Requirements
- ☐ Training Requirements
- ☑ Safe Work Practices
- ☐ Logs, Reports, Recordkeeping
- ☐ Sanitation and Illumination
- ☐ Air Surveillance Type and Frequency
- ☐ Monitoring Instruments and Personal Monitoring
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- ☑ Decontamination Procedures for Personnel and Equipment
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- ☐ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☐ Hazardous Materials Spill Procedures
- ☐ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☐ Injury/Illness Reporting Procedures
- ☐ Route to Hospital and Medical Care Provider Visit Guidelines
- ☐ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: Careful in the rain - things might get slippery (slips, trips, falls); working in general vacinity of train tracks - be aware of trains and stay safe

Action taken on previous suggestions: Continue changing gloves frequently

Injuries/accidents/personnel changes since previous meeting: NONE

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE

Location of (or changes in the locations of) evacuation routes/safe refuge areas: NONE

Additional comments: NONE

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Danielle Lerner	AMEC	
Michael H. Lowry	AMEC	
Robert Sluyter	AMEC	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: Time: 0725

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☐ Initial Kickoff Safety Meeting ☑ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 10/2/14 Site: Plattsburgh AFB

Field Manager: Michael Counsbury (print) Site Health and Safety Coordinator: Danielle Lerner (print)

Order of Business

Topics Discussed (check all that apply):

- ☐ Site History/Site Layout
- ☑ Scope of Work
- ☑ Personnel Responsibilities
- ☐ Medical Surveillance Requirements
- ☐ Training Requirements
- ☑ Safe Work Practices
- ☐ Logs, Reports, Recordkeeping
- ☐ Sanitation and Illumination
- ☐ Air Surveillance Type and Frequency
- ☐ Monitoring Instruments and Personal Monitoring
- ☐ Action Levels
- ☑ Accident Reporting Procedures
- ☐ Site Control (visitor access, buddy system, work zones, security, communications)
- ☐ Discussion of previous "near misses" including work crew suggestions to correct work practices to avoid similar occurrences
- ☐ Engineering Controls
- ☐ PPE Required/PPE Used
- ☐ Define PPE Levels, Donning, Doffing Procedures
- ☐ Physical Hazards and Controls (e.g., overhead utility lines)
- ☐ Decontamination Procedures for Personnel and Equipment
- ☐ General Emergency Procedures (e.g., locations of air horns and what 1 or 2 blasts indicate)
- ☐ Site/Regional Emergency Procedures (e.g., earthquake response, typhoon response, etc.)
- ☐ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☐ Hazardous Materials Spill Procedures
- ☐ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☐ Injury/Illness Reporting Procedures
- ☐ Route to Hospital and Medical Care Provider Visit Guidelines
- ☐ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: Slips, trips, and falls (be cautious); watch out for allergies retaining to bees (they are everywhere); be safe on the flight field (be weary of planes)

Action taken on previous suggestions: None

Injuries/accidents/personnel changes since previous meeting: None

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

amec

Observations of unsafe work practices/conditions that have developed since previous meeting: None

Location of (or changes in the locations of) evacuation routes/safe refuge areas: None

Additional comments: None

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Danielle Lerner	AMEC	
Dave Farnsworth	AFCEC	
Mike Lounsbury	AMEC	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: Time: 0725

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☐ Initial Kickoff Safety Meeting ☑ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 10/3/14 Site: Plattsburgh

Field Manager: Michael Counsbury *(print)* Site Health and Safety Coordinator: Danielle Lerner *(print)*

Order of Business

Topics Discussed (check all that apply):

- ☐ Site History/Site Layout
- ☑ Scope of Work
- ☐ Personnel Responsibilities
- ☐ Medical Surveillance Requirements
- ☐ Training Requirements
- ☑ Safe Work Practices
- ☐ Logs, Reports, Recordkeeping
- ☐ Sanitation and Illumination
- ☐ Air Surveillance Type and Frequency
- ☐ Monitoring Instruments and Personal Monitoring
- ☐ Action Levels
- ☐ Accident Reporting Procedures
- ☐ Site Control (visitor access, buddy system, work zones, security, communications)
- ☐ Discussion of previous "near misses" including work crew suggestions to correct work practices to avoid similar occurrences
- ☐ Engineering Controls
- ☑ PPE Required/PPE Used
- ☐ Define PPE Levels, Donning, Doffing Procedures
- ☐ Physical Hazards and Controls (e.g., overhead utility lines)
- ☐ Decontamination Procedures for Personnel and Equipment
- ☐ General Emergency Procedures (e.g., locations of air horns and what 1 or 2 blasts indicate)
- ☐ Site/Regional Emergency Procedures (e.g., earthquake response, typhoon response, etc.)
- ☐ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☐ Hazardous Materials Spill Procedures
- ☐ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☐ Injury/Illness Reporting Procedures
- ☐ Route to Hospital and Medical Care Provider Visit Guidelines
- ☐ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: Do not rush through this Friday - safety first. Careful around wells with product - wear your PPE!

Action taken on previous suggestions: Careful around wildlife (bees, ticks, etc).

Injuries/accidents/personnel changes since previous meeting: None

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

Observations of unsafe work practices/conditions that have developed since previous meeting: none

Location of (or changes in the locations of) evacuation routes/safe refuge areas: none

Additional comments: none

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Michael Lounsbury	AMEC	
Danielle Lerner	AMEC	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: Time: 715

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☑ Initial Kickoff Safety Meeting ☐ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 10/6/14 Site: Plattsburgh

Field Manager: Michael Lounsbury (print) Site Health and Safety Coordinator: Danielle Lerner (print)

Order of Business

Topics Discussed (check all that apply):

- ☑ Site History/Site Layout
- ☑ Scope of Work
- ☑ Personnel Responsibilities
- ☑ Medical Surveillance Requirements
- ☑ Training Requirements
- ☑ Safe Work Practices
- ☑ Logs, Reports, Recordkeeping
- ☑ Sanitation and Illumination
- ☑ Air Surveillance Type and Frequency
- ☑ Monitoring Instruments and Personal Monitoring
- ☑ Action Levels
- ☑ Accident Reporting Procedures
- ☑ Site Control (visitor access, buddy system, work zones, security, communications)
- ☑ Discussion of previous "near misses" including work crew suggestions to correct work practices to avoid similar occurrences
- ☑ Engineering Controls
- ☑ PPE Required/PPE Used
- ☑ Define PPE Levels, Donning, Doffing Procedures
- ☑ Physical Hazards and Controls (e.g., overhead utility lines)
- ☑ Decontamination Procedures for Personnel and Equipment
- ☑ General Emergency Procedures (e.g., locations of air horns and what 1 or 2 blasts indicate)
- ☑ Site/Regional Emergency Procedures (e.g., earthquake response, typhoon response, etc.)
- ☑ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☑ Hazardous Materials Spill Procedures
- ☑ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☑ Injury/Illness Reporting Procedures
- ☑ Route to Hospital and Medical Care Provider Visit Guidelines
- ☑ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: Avoid slips, trips, and falls. Be weary of bees, ticks, and poison ivy.

Action taken on previous suggestions: N/A

Injuries/accidents/personnel changes since previous meeting: N/A

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

Observations of unsafe work practices/conditions that have developed since previous meeting: N/A

Location of (or changes in the locations of) evacuation routes/safe refuge areas: NONE

Additional comments:

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Danielle Lerner	AMEC	
Mike Misiaszek	NEBC	
Carl Dawning	NEBC	
Michael H Jung	AMEC	
David Farnsworth	AFCEC	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: Time: 1245

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☐ Initial Kickoff Safety Meeting ☑ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 10/7/14 Site: Plattsburgh

Field Manager: Mike Lounsbury *(print)* Site Health and Safety Coordinator: Danielle Lerner *(print)*

Order of Business

Topics Discussed (check all that apply):

- ☐ Site History/Site Layout
- ☑ Scope of Work
- ☑ Personnel Responsibilities
- ☐ Medical Surveillance Requirements
- ☑ Training Requirements
- ☑ Safe Work Practices
- ☐ Logs, Reports, Recordkeeping
- ☐ Sanitation and Illumination
- ☐ Air Surveillance Type and Frequency
- ☐ Monitoring Instruments and Personal Monitoring
- ☐ Action Levels
- ☐ Accident Reporting Procedures
- ☐ Site Control (visitor access, buddy system, work zones, security, communications)
- ☐ Discussion of previous "near misses" including work crew suggestions to correct work practices to avoid similar occurrences
- ☐ Engineering Controls
- ☑ PPE Required/PPE Used
- ☐ Define PPE Levels, Donning, Doffing Procedures
- ☐ Physical Hazards and Controls (e.g., overhead utility lines)
- ☐ Decontamination Procedures for Personnel and Equipment
- ☐ General Emergency Procedures (e.g., locations of air horns and what 1 or 2 blasts indicate)
- ☐ Site/Regional Emergency Procedures (e.g., earthquake response, typhoon response, etc.)
- ☐ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☐ Hazardous Materials Spill Procedures
- ☐ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☐ Injury/Illness Reporting Procedures
- ☐ Route to Hospital and Medical Care Provider Visit Guidelines
- ☐ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: Slips, trips, falls — be safe in wet weather; listen for thunder/lightening and follow appropriate procedures

Action taken on previous suggestions: Be careful when hand digging first 5' (avoid electrical lines!)

Injuries/accidents/personnel changes since previous meeting: None

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

Observations of unsafe work practices/conditions that have developed since previous meeting: none

Location of (or changes in the locations of) evacuation routes/safe refuge areas: N/A

Additional comments: N/A

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Mike Mislaszek	NEBC	
Carl Downing	NEBC	
Mike Lowing	AMEC	
Danielle Lerner	AMEC	
Sean Eldredge	CNTS (AF)	
Dwight Farnsworth	AFCEC	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: Time: 0759

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report

Check One:

☐ Initial Kickoff Safety Meeting ☑ Regular/Daily Tailgate Safety Meeting ☐ Unscheduled Tailgate Safety Meeting

Date: 10/9/14 Site: Plattsburgh

Field Manager: Mike Lounsbury (print) Site Health and Safety Coordinator: Danielle Lerner (print)

Order of Business

Topics Discussed (check all that apply):

- ☐ Site History/Site Layout
- ☑ Scope of Work
- ☐ Personnel Responsibilities
- ☐ Medical Surveillance Requirements
- ☐ Training Requirements
- ☐ Safe Work Practices
- ☑ Logs, Reports, Recordkeeping
- ☐ Sanitation and Illumination
- ☐ Air Surveillance Type and Frequency
- ☐ Monitoring Instruments and Personal Monitoring
- ☐ Action Levels
- ☐ Accident Reporting Procedures
- ☐ Site Control (visitor access, buddy system, work zones, security, communications)
- ☐ Discussion of previous "near misses" including work crew suggestions to correct work practices to avoid similar occurrences
- ☐ Engineering Controls
- ☐ PPE Required/PPE Used
- ☐ Define PPE Levels, Donning, Doffing Procedures
- ☐ Physical Hazards and Controls (e.g., overhead utility lines)
- ☐ Decontamination Procedures for Personnel and Equipment
- ☐ General Emergency Procedures (e.g., locations of air horns and what 1 or 2 blasts indicate)
- ☐ Site/Regional Emergency Procedures (e.g., earthquake response, typhoon response, etc.)
- ☐ Medical Emergency Response Procedures (e.g., exposure control precautions, location of first aid kit, etc.)
- ☐ Hazardous Materials Spill Procedures
- ☐ Applicable SOPs (e.g., Hearing Conservation Program, Safe Driving, etc.)
- ☐ Injury/Illness Reporting Procedures
- ☐ Route to Hospital and Medical Care Provider Visit Guidelines
- ☐ Hazard Analysis of Work Tasks (chemical, physical, biological and energy health hazards and effects)

Safety suggestions by site workers: Slips/trips/falls: be safe- it's still wet on the ground from yesterday's rain; cautious of wildlife; be safe on the long drive home- stop if necessary

Action taken on previous suggestions: careful during rain showers; double checked electric lines (moved a couple of boring locations for safety)

Injuries/accidents/personnel changes since previous meeting: None

AMEC Environment and Infrastructure
Tailgate Safety Meeting Report *(continued)*

Observations of unsafe work practices/conditions that have developed since previous meeting: none

Location of (or changes in the locations of) evacuation routes/safe refuge areas: none

Additional comments: none

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

Name (print)	Company	Signature
Danielle Lerner	AMEC	
Mike Lounsbury	AMEC	

Meeting conducted by: Danielle Lerner *(print)* Title: Staff Scientist

Signature: Time: 0715

APPENDIX C-2

DAILY PFC CHECKLIST

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Attachment 1 to SOP AMEC-01
AMEC Environment & Infrastructure, Inc.
Daily PFC Protocol Checklist

Date: 9/29/14 Installation Name: Plattsburgh

Weather (*temp./precipitation*): 55°F, partly cloudy Site Name: FT030P

Field Clothing and PPE:

- ☑ No clothing or boots containing Gore-Tex™
- ☑ All safety boots made from polyurethane and PVC
- ☑ No materials containing Tyvek®
- ☑ Field crew has not used fabric softener on clothing
- ☑ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☑ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☑ No Teflon® or LDPE containing materials on-site
- ☑ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☑ No waterproof field books on-site
- ☑ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☑ No adhesives (Post-It Notes) on-site
- ☑ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☑ All sample containers made of HDPE or polypropylene
- ☑ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☑ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☑ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☑ Alconox and Liquinox to be used as decontamination materials

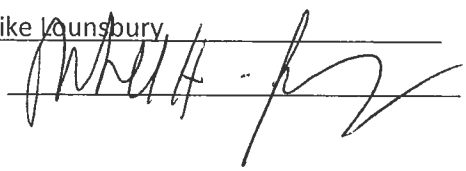
Food Considerations:

- ☑ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Manager shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance. Repeated failure to comply with PFC sample protocols will result in the permanent removal of worker(s) from the site.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Field Manager Name: Mike Lounsbury

Field Manager Signature: 

Time: 0735

Attachment 1 to SOP AMEC-01
AMEC Environment & Infrastructure, Inc.
Daily PFC Protocol Checklist

Date: 9/30/14 Installation Name: Plattsburgh

Weather (*temp./precipitation*): 45°F, partly cloudy Site Name: FT030P

Field Clothing and PPE:

- ☑ No clothing or boots containing Gore-Tex™
- ☑ All safety boots made from polyurethane and PVC
- ☑ No materials containing Tyvek®
- ☑ Field crew has not used fabric softener on clothing
- ☑ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☑ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☑ No Teflon® or LDPE containing materials on-site
- ☑ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☑ No waterproof field books on-site
- ☑ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☑ No adhesives (Post-It Notes) on-site
- ☑ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☑ All sample containers made of HDPE or polypropylene
- ☑ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☑ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☑ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☑ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☑ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Manager shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance. Repeated failure to comply with PFC sample protocols will result in the permanent removal of worker(s) from the site.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Field Manager Name: Mike Lounsbury

Field Manager Signature: [signature]

Time: 0710 (0600) 9/30/14

Attachment 1 to SOP AMEC-01
AMEC Environment & Infrastructure, Inc.
Daily PFC Protocol Checklist

Date: 10/1/14 Installation Name: Plattsburgh

Weather (*temp./precipitation*): 46°F, raining lightly Site Name: FT030P

Field Clothing and PPE:

- ☑ No clothing or boots containing Gore-Tex™
- ☑ All safety boots made from polyurethane and PVC
- ☑ No materials containing Tyvek®
- ☑ Field crew has not used fabric softener on clothing
- ☑ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☑ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☑ No Teflon® or LDPE containing materials on-site
- ☑ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☑ No waterproof field books on-site
- ☑ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☑ No adhesives (Post-It Notes) on-site
- ☑ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☑ All sample containers made of HDPE or polypropylene
- ☑ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☑ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☑ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☑ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☑ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Manager shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance. Repeated failure to comply with PFC sample protocols will result in the permanent removal of worker(s) from the site.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Geo sub pump used today because hurricane pump died. They have either teflon or PVC coated motor leads. A decision was made to use the Geo sub based on equipment availability and the potential for cross-contamination due to the motor lead is minimal. Equipment blank will allow further assessment.

Field Manager Name: Mike Lounsbury

Field Manager Signature: [signature] Time: 10/2/14

Attachment 1 to SOP AMEC-01
AMEC Environment & Infrastructure, Inc.
Daily PFC Protocol Checklist

Date: 10/2/14 Installation Name: Plattsburgh

Weather (*temp./precipitation*): 60°F, partly cloudy Site Name: FT030P

Field Clothing and PPE:

- ☑ No clothing or boots containing Gore-Tex™
- ☑ All safety boots made from polyurethane and PVC
- ☑ No materials containing Tyvek®
- ☑ Field crew has not used fabric softener on clothing
- ☑ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☑ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☐ No Teflon® or LDPE containing materials on-site
- ☑ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☑ No waterproof field books on-site
- ☑ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☑ No adhesives (Post-It Notes) on-site
- ☑ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☑ All sample containers made of HDPE or polypropylene
- ☑ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☑ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☑ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☑ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☑ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Manager shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance. Repeated failure to comply with PFC sample protocols will result in the permanent removal of worker(s) from the site.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Geo sub pump will be used today because no hurricane pumps were available. Geo subs may have either teflon or PVC coated motor leads. A decision was made to use the Geo sub based on equipment availability and that the potential for cross-contamination of the sample due to the motor lead is minimal. Equipment blank will allow further assessment.

Field Manager Name: Mike Lounsbury

Field Manager Signature: [signature] Time: 715

Attachment 1 to SOP AMEC-01
AMEC Environment & Infrastructure, Inc.
Daily PFC Protocol Checklist

Date: 10/3/14 Installation Name: Plattsburgh

Weather (*temp./precipitation*): 50°F, sunny Site Name: FT030P

Field Clothing and PPE:

- ☑ No clothing or boots containing Gore-Tex™
- ☑ All safety boots made from polyurethane and PVC
- ☑ No materials containing Tyvek®
- ☑ Field crew has not used fabric softener on clothing
- ☑ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☑ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☐ No Teflon® or LDPE containing materials on-site
- ☑ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☑ No waterproof field books on-site
- ☑ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☑ No adhesives (Post-It Notes) on-site
- ☑ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☑ All sample containers made of HDPE or polypropylene
- ☑ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☑ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☑ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☑ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☑ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Manager shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance. Repeated failure to comply with PFC sample protocols will result in the permanent removal of worker(s) from the site.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Geo subpump will be used today b/c no hurricane pumps were available. Geo subs may have either Teflon or PVC coated motor leads. A decision was made to use the Geo sub based on equipment availability and that the potential for cross-contamination of the sample due to the motor lead is minimal. Equipment blank will allow further assessment.

Field Manager Name: Mike Lounsbury

Field Manager Signature: [signature] Time: 10/3/14

Attachment 1 to SOP AMEC-01
AMEC Environment & Infrastructure, Inc.
Daily PFC Protocol Checklist

Date: 10/6/14 Installation Name: Plattsburgh

Weather (*temp./precipitation*): 53°F, sunny, windy Site Name: FT030P

Field Clothing and PPE:

- ☑ No clothing or boots containing Gore-Tex™
- ☐ All safety boots made from polyurethane and PVC
- ☑ No materials containing Tyvek®
- ☑ Field crew has not used fabric softener on clothing
- ☑ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☑ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☑ No Teflon® or LDPE containing materials on-site
- ☑ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☑ No waterproof field books on-site
- ☑ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☑ No adhesives (Post-It Notes) on-site
- ☑ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☑ All sample containers made of HDPE or polypropylene
- ☑ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☑ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☑ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☑ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☑ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Manager shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance. Repeated failure to comply with PFC sample protocols will result in the permanent removal of worker(s) from the site.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Drillers were wearing old leather boots that have waterproofing. Asked them to put on rubber boot covers, which they had

Field Manager Name: Mike Lounsbury

Field Manager Signature: [signature] Time: 1200

Attachment 1 to SOP AMEC-01
AMEC Environment & Infrastructure, Inc.
Daily PFC Protocol Checklist

Date: 10/7/14 Installation Name: Plattsburgh

Weather (*temp./precipitation*): 58°F, rainy, windy Site Name: FT030P

Field Clothing and PPE:

- ☑ No clothing or boots containing Gore-Tex™
- ☑ All safety boots made from polyurethane and PVC
- ☑ No materials containing Tyvek®
- ☑ Field crew has not used fabric softener on clothing
- ☑ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☑ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☑ No Teflon® or LDPE containing materials on-site
- ☑ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☑ No waterproof field books on-site
- ☑ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☑ No adhesives (Post-It Notes) on-site
- ☑ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☑ All sample containers made of HDPE or polypropylene
- ☑ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☑ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☑ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☑ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☑ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Manager shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance. Repeated failure to comply with PFC sample protocols will result in the permanent removal of worker(s) from the site.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Field Manager Name: Mike Lounsbury

Field Manager Signature: [signature] Time: 756

Rev. 1
Date: 07/21/2014

Attachment 1 to SOP AMEC-01
AMEC Environment & Infrastructure, Inc.
Daily PFC Protocol Checklist

Date: 10/8/14 Installation Name: Plattsburgh

Weather (*temp./precipitation*): 55°F, raining Site Name: FT030P

Field Clothing and PPE:

- ☑ No clothing or boots containing Gore-Tex™
- ☑ All safety boots made from polyurethane and PVC
- ☑ No materials containing Tyvek®
- ☑ Field crew has not used fabric softener on clothing
- ☑ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☑ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☑ No Teflon® or LDPE containing materials on-site
- ☑ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☑ No waterproof field books on-site
- ☑ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☑ No adhesives (Post-It Notes) on-site
- ☑ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☑ All sample containers made of HDPE or polypropylene
- ☑ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☑ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☑ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☑ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☑ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Manager shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance. Repeated failure to comply with PFC sample protocols will result in the permanent removal of worker(s) from the site.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Field Manager Name: Mike Lounsbury

Field Manager Signature: [signature] Time: 710

APPENDIX C-3

WATER QUALITY METER CALIBRATION

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Calibration Form

PFCs Release Determinationat Multiple BRAC Bases
Contract FA8903-08-8766 Task Order 0177

Project Number: 775290177.0010.300B

Instrument: YSI 556 MPS 09F101281 / HACH 2100Q 13100C028774

Installation/Site: Plattsburgh/~~FT030P~~ FT002P (BP)

		Before Calibration							After Calibration							
Date	Time (24hr)	pH (SU)	Conductivity (mS/m)	Turbidity (NTU)	Temp (C)	D.O. (mg/L)	Salinity (%)	ORP/Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Temp (C)	D.O. (mg/L)	Salinity (%)	ORP/Eh (mV)	Initials of Person Calibrating
9/29/14	0827	7.02	0.967	10.0	19.30	9.31	N/A	105.5	7.00	1.000	9.7	19.55	9.13	N/A	105.9	~~DL~~
		4.10							4.00							
		10.18							10.03							
9/30/14	720	7.05	0.998	11.2	17.67	9.43	N/A	106.1	7.00	1.000	9.99	18.46	9.34	N/A	105.9	ML
		4.08							4.00							
		10.09							10.01							
10/1/14	0735	7.02	1.000	9.86	19.23	9.34	NA	104.9	7.00	1.000	9.71	19.49	9.34	NA	105.9	~~DL~~
		4.01							4.00							
		10.04							10.01							
10/2/14	0735	6.95	0.988	9.62	18.08	9.32	NA	110.4	7.00	1.000	9.71	18.07	9.32	NA	105.9	~~DL~~
		4.06							4.00							
		10.05							10.01							
10/3/14	0716	7.02	0.997	10.1	16.85	9.85	NA	107.6	7.00	1.000	10.7	16.96	9.85	NA	111.4	~~DL~~
		4.03							4.00							
		10.00							10.00							
QAQC'd by:									Date: 10/5/14							

Calibration Form

PFCs Release Determinationat Multiple BRAC Bases
Contract FA8903-08-8766 Task Order 0177

Project Number: 775290177.0010.300B

Instrument: YSI 556 MPS, HACH 2100Q

Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (PT)

		Before Calibration							After Calibration							
Date	Time (24hr)	pH (SU)	Conductivity (mS/m)	Turbidity (NTU)	Temp (C)	D.O. (mg/L)	Salinity (%)	ORP/Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Temp (C)	D.O. (mg/L)	Salinity (%)	ORP/Eh (mV)	Initials of Person Calibrating
10/1/14	730		1.0	10.3	19.3	9.50	NA	151.9		1.0	9.61	20.02	9.09	NA	105.9	ML
		7.03							7.00							
		4.16							4.00							
		10.03							10.01							
10/2/14	705	6.95	1.072	9.26	19.4	~~6.07~~	NA	62.1	7.00	1.000	9.40	19.4	9.23	NA	105.9	ML
		4.09							4.00							
		10.11							10.02							
		~~1.032~~							Low							
10/3/14	700	7.05	1.006	10.3	10.38	9.81		180.6	7.00	1.000	10.1	16.1	9.60	NA	105.0	ML
		3.77							4.00							
		9.15							9.94							

QAQC'd by: D. Lerner

Date: 12/5/14

APPENDIX C-4

SAMPLE COLLECTION LOGS

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SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/6/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FT002R-001 (MAL)

SOIL SAMPLE

Sample ID:	PLTSB-SO-001	Sample Collection Time:	1341
Sample Depth:	0-1'	UCSC Description:	FILL
Munsell Description:	10YR 4/2	Plasticity:	none
Collection Method:	Hand Auger	Analysis/Method:	PFCs (LC/ms/ms)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

Surface Soil Sample

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation: Plattsburgh
Date: 10/6/14
Sample Technician(s): M. Lounsbury / D. Lerner
Location ID: PLTSB – FOOP-001

SOIL SAMPLE

Sample ID: PLTSB-SO-002
Sample Collection Time: 1400
Sample Depth: 3-5"
UCSC Description: SM
Munsell Description: 10YR 5/6
Plasticity: none
Collection Method: Hand auger
Analysis/Method: PFCs (LC/MS/MS)
Sample Container: 125 ml HPDE
Preservative: 4oC

COMMENTS:

QAQC'd by:
Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/6/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTOU2P-001

SOIL SAMPLE

Sample ID:	PLTSB-SO-003	Sample Collection Time:	1443
Sample Depth:	8-10'	UCSC Description:	SM
Munsell Description:	10YR-5/6	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation: Plattsburgh
Date: 10/6/14
Sample Technician(s): M. Lounsbury, D. Lerner
Location ID: PLTSB- FT002-001

SOIL SAMPLE

Sample ID: PLTSB-SO-008-14
Sample Collection Time: 1425
Sample Depth: 13-15"
UCSC Description: SM
Munsell Description: 10YR 5/6
Plasticity: none
Collection Method: Direct Push
Analysis/Method: PFCs LC/MS/MS
Sample Container: 125 ml HDPE
Preservative: 4°C

COMMENTS:

QAQC'd by: DJ
Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/6/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB - FT002P - 001

SOIL SAMPLE

Sample ID:	PLTSB - SO - 005	Sample Collection Time:	1435
Sample Depth:	18-20'	UCSC Description:	SM
Munsell Description:	10YR 5/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/6/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FTOO2P-006

SOIL SAMPLE

Sample ID:	PLTSB-SO-006	Sample Collection Time:	1510
Sample Depth:	23-25'	UCSC Description:	SM
Munsell Description:	10YR 5/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/6/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FT002P-001

SOIL SAMPLE

Sample ID:	PLTSB-SO-007	Sample Collection Time:	1520
Sample Depth:	28-30'	UCSC Description:	SM
Munsell Description:	10YR 5/4	Plasticity:	None
Collection Method:	Direct push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/6/14
Sample Technician(s):	M. Lounsbury D. Lerner
Location ID:	PLTSB-FTOO2P-001

SOIL SAMPLE

Sample ID:	PLTSB-SO-008	Sample Collection Time:	1545
Sample Depth:	30-35	UCSC Description:	SM
Munsell Description:	10YR-5/8	Plasticity:	NPLAST
Collection Method:	Direct Push	Analysis/Method:	PCB (CC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/6/14
Sample Technician(s):	M. Lounsbury, D. Lesner
Location ID:	PLTSB-FT002P-001

SOIL SAMPLE

Sample ID:	PLTSB-SO-009	Sample Collection Time:	1600
Sample Depth:	38-40'	UCSC Description:	Sm
Munsell Description:	10YR 5/6	Plasticity:	Slight
Collection Method:	Direct	Analysis/Method:	~~PFC~~ PFC'C LC (ms/ms)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB- FT00 2P. BLK

SOIL SAMPLE

Sample ID:	PLTSB-FT002P. BLK08	Sample Collection Time:	0715
Sample Depth:	NA	UCSC Description:	NA
Munsell Description:	NA	Plasticity:	NA
Collection Method:	Pour Direct Into Bottle	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	2 x 125 ml HDPE	Preservative:	4°C

COMMENTS: Field Blank - Water poured from HDPE Container Into Sample Jar's

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FT002-BLK

SOIL SAMPLE

Sample ID:	PLTSB-FT002-BLK01	Sample Collection Time:	710
Sample Depth:	NA	UCSC Description:	NA
Munsell Description:	NA	Plasticity:	NA
Collection Method:	Spoon, Bowl	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	2x 125 ml HDPE	Preservative:	4oC

COMMENTS: Sample Blank

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB - FT002P - B1K

SOIL SAMPLE

Sample ID:	PLTSB - FT002P - B1K02	Sample Collection Time:	1030
Sample Depth:	NA	UCSC Description:	NA
Munsell Description:	NA	Plasticity:	NA
Collection Method:	Stainless Steel Bowl, Spoon	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125ml HDPE	Preservative:	4°C

COMMENTS:

Field Blank

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FTOU2P-BLK

SOIL SAMPLE

Sample ID:	PLTSB-FTOU2P-BLK03	Sample Collection Time:	1325
Sample Depth:	NA	UCSC Description:	NA
Munsell Description:	NA	Plasticity:	NA
Collection Method:	Stainless steel Bowl, Spoon	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

Field Blank

QAQC'd by:	Date: 12/5/14

Soil Sample Collection Log
Rev. 1, Date: 07/21/2014

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FT002P-BLK

SOIL SAMPLE

Sample ID:	PLTSB-SO-BLK04	Sample Collection Time:	1511
Sample Depth:	NA	UCSC Description:	NA
Munsell Description:	NA	Plasticity:	NA
Collection Method:	Stainless Steel Bowl Spoon	Analysis/Method:	PFC - 8 LC (ms/ms)
Sample Container:	125-m HDPE	Preservative:	4°C

COMMENTS:

Sample Blank of the PLTSB-FT002P-006

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation: Plattsburgh
Date: 10/7/14
Sample Technician(s): M. Louis Bury, D. Lerner
Location ID: PLTSB-PTOUP2-008

SOIL SAMPLE

Sample ID: PLTSB-GU-073
Sample Collection Time: 1542
Sample Depth: 0-1'
UCSC Description: ~~SM~~ F,TL
Munsell Description: 10YR 4/4
Plasticity: none
Collection Method: Hand auger
Analysis/Method: PFCs (LC/MS/MS)
Sample Container: 125ml HDPE
Preservative: 4°C

COMMENTS:

QAQC'd by:
Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation: Plattsburgh
Date: 10/7/14
Sample Technician(s): M. Lowney | D. Lerner
Location ID: PLTSB-RTOO2P-008

SOIL SAMPLE

Sample ID: PLTSB-SO-074
Sample Depth: 3-5'
Munsell Description: 10YR 6/4
Collection Method: Hand Auger
Sample Container: 125 ml HDPE

Sample Collection Time: 1610
UCSC Description: ~~SM~~ FILL
Plasticity: None
Analysis/Method: PFC's (LC/MS/MS)
Preservative: 4°C

COMMENTS:

QAQC'd by: [signature]
Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation: Plattsburgh

Date: 10/7/14

Sample Technician(s): M. Lounsbury / D. Lerner

Location ID: PLTSB-RTA02R008

SOIL SAMPLE

Sample ID: PLTSB-SO-071 PLTSB-SO-076

Sample Collection Time: 1616

Sample Depth: 8-10'

UCSC Description: SM

Munsell Description: 10YR 6/6

Plasticity: none

Collection Method: Direct Push

Analysis/Method: PFCs (LLC/MS/MS)

Sample Container: 125 ml HDPE

Preservative: 4°C

COMMENTS: Duplicate Collected

QAQC'd by:

Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTOOSP-008

SOIL SAMPLE

Sample ID:	PLTSB-SO-077	Sample Collection Time:	1625
Sample Depth:	13-15'	UCSC Description:	SM
Munsell Description:	10YR 6/4	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFCs - (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Counsbury / D. Leyrer
Location ID:	PLTSB - FTD02P - 008

SOIL SAMPLE

Sample ID:	PLTSB-SO-078	Sample Collection Time:	1632
Sample Depth:	18-20	UCSC Description:	SM
Munsell Description:	10YR 5/8	Plasticity:	(NP) ~~NON~~ SLIGHT
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lemen
Location ID:	PLTSB-FT002P-008

SOIL SAMPLE

Sample ID:	PLTSB-SO-079	Sample Collection Time:	1646
Sample Depth:	23-25'	UCSC Description:	SM
Munsell Description:	10YR 4/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lowsley / D. Lorner
Location ID:	PLTSB-FTOUR 008

SOIL SAMPLE

Sample ID:	PLTSB-30-8U	Sample Collection Time:	1700
Sample Depth:	28-30	UCSC Description:	SM
Munsell Description:	10YR 4/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation: Plattsburgh
Date: 10/7/14
Sample Technician(s): M. Lounsbury / D. Lorner
Location ID: PLTSB-~~FT002~~-006
FT002P (01)

SOIL SAMPLE

Sample ID: PLTSB-SO-052
Sample Depth: 0-1
Munsell Description: 10YR 4/4
Collection Method: Hand Auger
Sample Container: 125ml HDPE
Sample Collection Time: 1331
UCSC Description: (01) ~~SAT~~ FILL
Plasticity: None
Analysis/Method: PFC's (LC/MS/MS)
Preservative: 4°C

COMMENTS:

QAQC'd by:
Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB- ~~FT00P2~~ 006 FT002P (BB)

SOIL SAMPLE

Sample ID:	PLTSB-SO-053	Sample Collection Time:	~~1350~~ 1350 (BB)
Sample Depth:	3-5'	UCSC Description:	~~SAT~~ RLL
Munsell Description:	10YR 4/4	Plasticity:	none
Collection Method:	Hand Auger	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation: Plattsburgh
Date: 10/7/14
Sample Technician(s): M. Lounsbury / D. Lerner
Location ID: PLTSB-FTW2P-006

PLTSB-SO-054

SOIL SAMPLE

Sample ID: PLTSB-SO-055
Sample Depth: 8-10
Munsell Description: 10YR 5/4
Collection Method: Direct Push
Sample Container: 125 ml HDPE
Sample Collection Time: 1400
UCSC Description: SM
Plasticity: None
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C

COMMENTS: Duplicate Collected

QAQC'd by:
Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury N. Lerner
Location ID:	PLTSB-FT03A-006

SOIL SAMPLE

Sample ID:	PLTSB-SO-056	Sample Collection Time:	1413
Sample Depth:	13-15'	UCSC Description:	SM
Munsell Description:	10YR 5/4	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4oC

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FT002P-006

SOIL SAMPLE

Sample ID:	PLTSB-SO-053	Sample Collection Time:	1419
Sample Depth:	18-20	UCSC Description:	SM
Munsell Description:	10 YR 6/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LS/MS/MS
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Loughry / D. Lerner
Location ID:	PLTSB-FTB02P-006

SOIL SAMPLE

Sample ID:	PLTSB-SO-058	Sample Collection Time:	1428
Sample Depth:	23-25	UCSC Description:	SM
Munsell Description:	10YR 5/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4oC

COMMENTS:

QAQC'd by:	Date: 12/5/14

Soil Sample Collection Log
Rev. 1, Date: 07/21/2014

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FTOOBA-006

SOIL SAMPLE

Sample ID:	PLTSB-SO-059	Sample Collection Time:	1438
Sample Depth:	28-30'	UCSC Description:	SM
Munsell Description:	10YR 6/4	Plasticity:	~~None~~ Slight
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS: WL-28.5'

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTOAP-006

SOIL SAMPLE

Sample ID:	PLTSB-SO-060	Sample Collection Time:	1450
Sample Depth:	33-35'	UCSC Description:	SM
Munsell Description:	10YR 4/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC's (ac/ms/ms)
Sample Container:	125 mL HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Loughby / D. Lerner
Location ID:	PLTSB-FTA02P-006

PLTSB-SO-62

SOIL SAMPLE

Sample ID:	PLTSB-SO-61	Sample Collection Time:	1505
Sample Depth:	38-40'	UCSC Description:	SM
Munsell Description:	10YR 5/1	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	HH McLaughlin, D. Lemar
Location ID:	PLTSB-FTOOLP LOOU

SOIL SAMPLE

Sample ID:	PLTSB-SO-031	Sample Collection Time:	1110
Sample Depth:	0-1	UCSC Description:	SM Fill
Munsell Description:	10YR 6/3	Plasticity:	none
Collection Method:	Hand Auger	Analysis/Method:	PFC- (LC/MS/MS)
Sample Container:	125 mL HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lowenstein, D. Lerner
Location ID:	PLTSB-FT002P-004

SOIL SAMPLE

Sample ID:	PLTSB-SO-032 PLTSB-SO-033	Sample Collection Time:	1131
Sample Depth:	3-5	UCSC Description:	DF ~~SM~~ FILL
Munsell Description:	10YR 6/3	Plasticity:	None
Collection Method:	Hand Auger	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125 mL HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by: DF	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/9/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-[illegible]002A-004

SOIL SAMPLE

Sample ID:	PLTSB-SO-034	Sample Collection Time:	1140
Sample Depth:	8-10'	UCSC Description:	SM
Munsell Description:	10YR 5/8	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LCS Im/Ims)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lansbury / D. Larner
Location ID:	PLTSB-FTOO P2-004

SOIL SAMPLE

Sample ID:	PLTSB-50-035	Sample Collection Time:	1150
Sample Depth:	13-15'	UCSC Description:	~~SM~~ SP
Munsell Description:	10YR 5/6	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC's (LS/MS/MS)
Sample Container:	125 mL-HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury D. Larner
Location ID:	PLTSB-FTOP2-OU4

SOIL SAMPLE

Sample ID:	PLTSB-SO-036	Sample Collection Time:	1200
Sample Depth:	18-20'	UCSC Description:	SM
Munsell Description:	10YR 4/6	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LS/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4oC

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FTOO2A-~~037~~ 004

SOIL SAMPLE

Sample ID:	PLTSB-SO-037	Sample Collection Time:	1205
Sample Depth:	23-25	UCSC Description:	SM
Munsell Description:	10YR 5/6	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC's (LS/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTB02P-004

SOIL SAMPLE

Sample ID:	PLTSB-SO-038	Sample Collection Time:	1220
Sample Depth:	28-30'	UCSC Description:	SM
Munsell Description:	10YR 6/3	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125 mL HDPE	Preservative:	4°C

COMMENTS:
Fuel-like odor - Gray Colored Soils

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Loundsbury / P. Lerner
Location ID:	PLTSB - FTOU 2P-004

SOIL SAMPLE

Sample ID:	PLTSB-SO-039	Sample Collection Time:	1230
Sample Depth:	33-35'	UCSC Description:	SM
Munsell Description:	10YR 5/2	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (~~Method~~) (Li/ms/ms)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation: Plattsburgh

Date: 10/7/14

Sample Technician(s): M. Lounsbury / D. Lemieux

Location ID: PLTSB-FTGWP-004

SOIL SAMPLE

Sample ID: PLTSB-SO-40 / PLTSB-SO-41

Sample Depth: 38-40

Munsell Description: 10YR 4/2

Collection Method: Direct Push

Sample Container: 125 ml- HDPE

Sample Collection Time: 1240

UCSC Description: (SM) ~~SAG~~ sm

Plasticity: none

Analysis/Method: PFC's (LC (MS/MS))

Preservative: 4°C

COMMENTS:

QAQC'd by: [signature]

Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation: Plattsburgh
Date: 10/7/14
Sample Technician(s): M. Lounsbury / D. Lerner
Location ID: PLTSB-FTA2P-002

SOIL SAMPLE

Sample ID: PLTSB-SO-010 / PLTSB-SO-011
Sample Depth: 0-1
Munsell Description: 10YR 3/6
Collection Method: Hand Auger
Sample Container: 125ml-HDPE
Sample Collection Time: 0813
UCSC Description: DP ~~Sand~~ FrSL
Plasticity: none
Analysis/Method: PFCs-(LC/MS/MS)
Preservative: 4°C

COMMENTS:

QAQC'd by: DP
Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lowenburg / D. Lerner
Location ID:	PLTSB-RTO02P-001

SOIL SAMPLE

Sample ID:	PLTSB-SO-012	Sample Collection Time:	0900
Sample Depth:	3-4"	UCSC Description:	~~SM~~ (SP) FLL
Munsell Description:	10YR 3/6	Plasticity:	None
Collection Method:	Hand Auger	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lamar
Location ID:	PLTSB-FT002P-002

SOIL SAMPLE

Sample ID:	PLTSB-SO-013	Sample Collection Time:	0912
Sample Depth:	8-10	UCSC Description:	SM
Munsell Description:	10 YR 6/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs LC/MS/MS
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLT SB - FTOO2P - 002

SOIL SAMPLE

Sample ID:	PLT SB-SO-014	Sample Collection Time:	0920
Sample Depth:	13-15'	UCSC Description:	DP ~~SM~~ SP
Munsell Description:	10YR 6/6	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Loughry I D. Lerner
Location ID:	PLTSB-FTA2P-002

SOIL SAMPLE

Sample ID:	PLTSB-SO-015	Sample Collection Time:	0930
Sample Depth:	18-20	UCSC Description:	SM
Munsell Description:	10YR 6/2	Plasticity:	SLIGHT
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury D. Lerner
Location ID:	PLTSB-1-TO02P-002

SOIL SAMPLE

Sample ID:	PLTSB-SO-016	Sample Collection Time:	0938
Sample Depth:	23-25'	UCSC Description:	SM
Munsell Description:	10YR 5/4	Plasticity:	S LOSHT
Collection Method:	Direct Push	Analysis/Method:	PFCs (LS/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB - FTB02P - 002

SOIL SAMPLE

Sample ID:	PLTSB - SO - 018	Sample Collection Time:	1003
Sample Depth:	B3-3.5'	UCSC Description:	SM
Munsell Description:	10YR 5/3	Plasticity:	SLIGHT
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

Soil Sample Collection Log
Rev. 1, Date: 07/21/2014

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/7/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FTOOSP-002

SOIL SAMPLE

Sample ID:	~~PLTSB~~ PLTSB-SO-19 PLTSB-SO-20 (DJ)	Sample Collection Time:	1015
Sample Depth:	38-40'	UCSC Description:	SM
Munsell Description:	10YR 5/3	Plasticity:	none
Collection Method:	Direct push	Analysis/Method:	PFC's (LS/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4oC

COMMENTS: Fuel-like odor at water ~~table~~ Table (DJ)

QAQC'd by: DJ	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB. FTO3 AP-003

~~P. DTP~~ PLTSB-SO-021 SOIL SAMPLE

Sample ID:	PLTSB-SO-022	Sample Collection Time:	1400
Sample Depth:	0-1	UCSC Description:	~~SM~~ F. LL
Munsell Description:	10YR 4/3	Plasticity:	~~Auger~~ None
Collection Method:	Hand Auger	Analysis/Method:	PCB's (LL(ms)/MS)
Sample Container:	1qt ml HDPE	Preservative:	Ice

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury, D. Leppert
Location ID:	PLTSB-FTOWAP-003

SOIL SAMPLE

Sample ID:	PLTSB-SU-003	Sample Collection Time:	1405
Sample Depth:	3-5	UCSC Description:	~~SM~~ FLL
Munsell Description:	10YR 4/3	Plasticity:	none
Collection Method:	Hand Auger	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	Ice

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lovejoy / D. Lerner
Location ID:	PLTSB-FT002P-03

SOIL SAMPLE

Sample ID:	PLTSB-SO-0274	Sample Collection Time:	1415
Sample Depth:	8-10'	UCSC Description:	SM
Munsell Description:	10YR 6/6	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFCs (LS/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4oC

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lousby / D. Lerner
Location ID:	PLTSB - FT00JP - 003

SOIL SAMPLE

Sample ID:	PLTSB-SO-025	Sample Collection Time:	1422
Sample Depth:	13-15'	UCSC Description:	SM
Munsell Description:	10YR 6/6 5/3	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	YOL

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB - A002P - 003

SOIL SAMPLE

Sample ID:	PLTSB-SO-026	Sample Collection Time:	1430
Sample Depth:	18-20'	UCSC Description:	SM
Munsell Description:	10YR 5/3	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC's (EC/SM/SM)
Sample Container:	125 ml HDPE	Preservative:	Yes

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D Lerner
Location ID:	PLTSB - FTA3P - 003

SOIL SAMPLE

Sample ID:	PLTSB-SO-027	Sample Collection Time:	14/40
Sample Depth:	23-25'	UCSC Description:	SM
Munsell Description:	10 4R 6/4	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FT002A-003

SOIL SAMPLE

Sample ID:	PLTSB-SO-028	Sample Collection Time:	1455
Sample Depth:	28-30'	UCSC Description:	SM
Munsell Description:	10YR 6/6	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

Soil Sample Collection Log
Rev. 1, Date: 07/21/2014

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FT002P-003

SOIL SAMPLE

Sample ID:	PLTSB-SO-029	Sample Collection Time:	1510
Sample Depth:	33-35'	UCSC Description:	SM
Munsell Description:	10YR	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

Strong Fuel-like odor

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB- FTOU2P- BIK

SOIL SAMPLE

Sample ID:	PLTSB -FOU2P-VBLK09	Sample Collection Time:	1600
Sample Depth:	WA	UCSC Description:	WA
Munsell Description:	WA	Plasticity:	WA
Collection Method:	SS Spoon / Bowl	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS: Sample Blank

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Louis Ivy T.D. Lerner
Location ID:	PLTSB-FTOUP-BLK

SOIL SAMPLE

Sample ID:	PLTSB-FTOUP-BLK01	Sample Collection Time:	0920
Sample Depth:	NA	UCSC Description:	NA
Munsell Description:	NA	Plasticity:	NA
Collection Method:	Stainless steel Bowl Spoon	Analysis/Method:	PFC's CLCIMS In,
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

Field Blank

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Loynsbury / D. Lerner
Location ID:	PLTSB-FTOOJP-~~BLK~~ BLK

SOIL SAMPLE

Sample ID:	PLTSB-FTOOJP-BLK06	Sample Collection Time:	1141
Sample Depth:	NA	UCSC Description:	NA
Munsell Description:	NA	Plasticity:	NA
Collection Method:	Stainless Steel Spoon/Bowl	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125ml HDPE	Preservative:	4c

COMMENTS:

Field Blank

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury ID. Lerner
Location ID:	PLTSB-FTOOD-BLK

SOIL SAMPLE

Sample ID:	PLTSB-FB-FTOOD-BLK07	Sample Collection Time:	1300
Sample Depth:	NA	UCSC Description:	NA
Munsell Description:	NA	Plasticity:	NA
Collection Method:	Stainless Steel spoon / Bowl	Analysis/Method:	PFC (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°

COMMENTS: Sample Blank

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	~~10/6/14~~ 10/8/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB-FTA02P-008

SOIL SAMPLE

Sample ID:	PLTSB-SO-081 PLTSB-SO-082	Sample Collection Time:	741
Sample Depth:	33-35'	UCSC Description:	SM
Munsell Description:	10 YR 5/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS: MS/MSD

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation: Plattsburgh

Date: 10/8/14

Sample Technician(s): M. Lounsbury / D. Lerner

Location ID: PLTSB-FTA02P-008

PLTSB-SO-8883

SOIL SAMPLE

Sample ID: PLTSB-SO-0811

Sample Collection Time: 1515

Sample Depth: 38-40'

UCSC Description: SM

Munsell Description: 10YR 5/6

Plasticity: None

Collection Method: Direct push

Analysis/Method: PFCs (LC/MS/MS)

Sample Container: 125 ml HDPE

Preservative: 4°C

COMMENTS: Duplicate Collected

QAQC'd by:

Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury | D. Lerner
Location ID:	PLTSB- FTUP- 007

SOIL SAMPLE

Sample ID:	PLTSB-05-0613	Sample Collection Time:	1000
Sample Depth:	0-1	UCSC Description:	(D1) ~~SAA~~ Rill
Munsell Description:	~~10YR 3/3~~ (D1) 10YR 3/3	Plasticity:	None
Collection Method:	Hand Auger	Analysis/Method:	PFCs - (LC/MS/MS)
Sample Container:	125 ml- HDPE	Preservative:	YOL

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTOO2P-007

SOIL SAMPLE

Sample ID:	PLTSB-SO-0041	Sample Collection Time:	1007
Sample Depth:	3-5"	UCSC Description:	~~SM~~ FILL
Munsell Description:	10YR 4/4	Plasticity:	None
Collection Method:	Hand Auger	Analysis/Method:	PFC (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTOOTP-007

SOIL SAMPLE

Sample ID:	PTLTSB-SO-067 PLTSB-SO-066	Sample Collection Time:	1018
Sample Depth:	8-10	UCSC Description:	SM
Munsell Description:	10YR 6/6	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFTC (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS: Duplicate Collected

QAQC'd by: [signature]

Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLT SB-FOOP-007

SOIL SAMPLE

Sample ID:	PLTSB-SO-067	Sample Collection Time:	1030
Sample Depth:	13-15'	UCSC Description:	SM
Munsell Description:	10 YR 6/4	Plasticity:	Non P
Collection Method:	Direct Push	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTOOLP-~~068~~ 007

SOIL SAMPLE

Sample ID:	PLTSB-SO-068	Sample Collection Time:	1040
Sample Depth:	18-20'	UCSC Description:	SM
Munsell Description:	10YR 6/4	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFCs (Lc/ms/ms)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury, D. Lemer
Location ID:	PLTSB-FT002P-007

SOIL SAMPLE

Sample ID:	PLTSB-SO-069	Sample Collection Time:	1047
Sample Depth:	23-25'	UCSC Description:	SM
Munsell Description:	10YR 6/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTOU2P-007

PLTSB-SO-070

SOIL SAMPLE

Sample ID:	PLTSB-SO-071	Sample Collection Time:	1100
Sample Depth:	28-30'	UCSC Description:	SM
Munsell Description:	10 YR 5/4	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS: Duplicate collected

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury, D. Lerner
Location ID:	PLTSB - FOOAP -001

SOIL SAMPLE

Sample ID:	PLTSB-SO-042	Sample Collection Time:	1148
Sample Depth:	0-1	UCSC Description:	DF ~~SM~~ Fill
Munsell Description:	10YR 4/4	Plasticity:	None
Collection Method:	Hand Auger	Analysis/Method:	PFCs (46) MS/MSD
Sample Container:	125 ml HDPE	Preservative:	Cool

COMMENTS:

QAQC'd by: DA	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lesner
Location ID:	PLTSB-FT002P-005

SOIL SAMPLE

Sample ID:	PLTSB-SO-0423 PLTSB-SO-0424	Sample Collection Time:	1155
Sample Depth:	3-5	UCSC Description:	~~SM~~ Fill
Munsell Description:	10 YR 3/6	Plasticity:	None
Collection Method:	Hand Auger	Analysis/Method:	PFCs (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lemer
Location ID:	PLTSB - RI0028 - 001

SOIL SAMPLE

Sample ID:	PLTSB-SO-045	Sample Collection Time:	1210
Sample Depth:	8-10	UCSC Description:	Fill
Munsell Description:	N2.5 [2.5	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC - (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS: Black Ash, Metal (stainless steel), Furnace Ash (cinder)

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTGOAP-005

SOIL SAMPLE

Sample ID:	PLTSB-SO-046	Sample Collection Time:	1220
Sample Depth:	13-15'	UCSC Description:	SM
Munsell Description:	10YR 5/4	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFC- (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	Ice

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lorne
Location ID:	PLTSB-FTOOP-005

SOIL SAMPLE

Sample ID:	PLTSB-SO-47	Sample Collection Time:	1230
Sample Depth:	18-20'	UCSC Description:	SM
Munsell Description:	10YR-5/4	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFC (LC/ms/ms)
Sample Container:	125 ml HDPE	Preservative:	4oC

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lesher
Location ID:	PLTSB-FTA20-005

SOIL SAMPLE

Sample ID:	PLTSB-SO-048	Sample Collection Time:	1240
Sample Depth:	23.25'	UCSC Description:	SM
Munsell Description:	10YR 5/3	Plasticity:	None
Collection Method:	Direct Push	Analysis/Method:	PFC (LC/MS/MS)
Sample Container:	125ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

SOIL SAMPLE COLLECTION LOG

amec

Project Name:	PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No:	775290177.0010.300B
Installation:	Plattsburgh
Date:	10/8/14
Sample Technician(s):	M. Lounsbury / D. Lerner
Location ID:	PLTSB-FTRAP-005

SOIL SAMPLE

Sample ID:	PLTSB-SO-049	Sample Collection Time:	1251
Sample Depth:	28-30'	UCSC Description:	SM
Munsell Description:	10YR 5/3	Plasticity:	none
Collection Method:	Direct Push	Analysis/Method:	PFC's (LC/MS/MS)
Sample Container:	125 ml HDPE	Preservative:	4°C

COMMENTS:

QAQC'd by:	Date: 12/5/14

Sediment and Surface Water Sample Collection Log

Rev. 1, Date: 07/21/2014

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/~~FT030P~~ FT002P MNA

Date: 9/29/14

Sample Technician(s): Danielle Lerner, Michael Lounsbury

Location ID: SW-MNA-1

Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

Sample ID: PLTSB-SD-010

Sample Collection Time: 1015

Sample Depth: 0-0.3'

Sediment Description: Brown sand and silt

Collection Method: SS bowl/spoon

Analysis/Method: PFCs (LC/MS/MS)

Sample Container: 125mL HDPE

Preservative: 4°C

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-010

Sample Collection Time: 1015

Sample Depth: 0.1'

Collection Method: Grab directly in bottle

Analysis/Method: PFCs (LC/MS/MS) ~~Grab directly in bottle~~ (DK)

Sample Container: 125mL HDPE x2

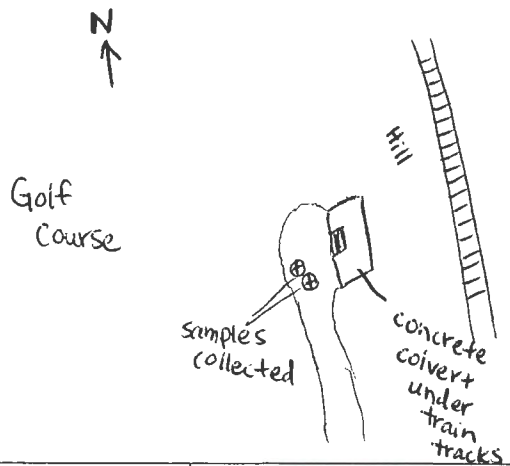
Preservative: 4°C

Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: water depth ~1.0'

Temp: 15.25°C
cond: 0.586mS/cm
DO: 9.21mg/L
pH: 7.55
ORP: 164.4mV
Turb: 8.27NTU

3 photos taken



QAQC'd by: Mitchell H. Young

Date: 12/5/14

Sediment and Surface Water Sample Collection Log

Rev. 1, Date: 07/21/2014

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/~~FT030P~~ FT002P (MW)

Date: 9/29/14

Sample Technician(s): Danielle Lerner, Michael Lounsbury

Location ID: SW-MNA-3A

Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

Sample ID: PLTSB-SD-011

Sample Collection Time: 1055

Sample Depth: 0-0.3'

Sediment Description: Brown sand w/ metal slag and some gravel

Collection Method: trowel with SS bowl

Analysis/Method: PFCs (LC/MS/MS)

Sample Container: 125mL HDPE

Preservative: 4°C

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-011

Sample Collection Time: 1055

Sample Depth: 0-0.2'

Collection Method: grab directly in bottle

Analysis/Method: PFCs (LC/MS/MS)

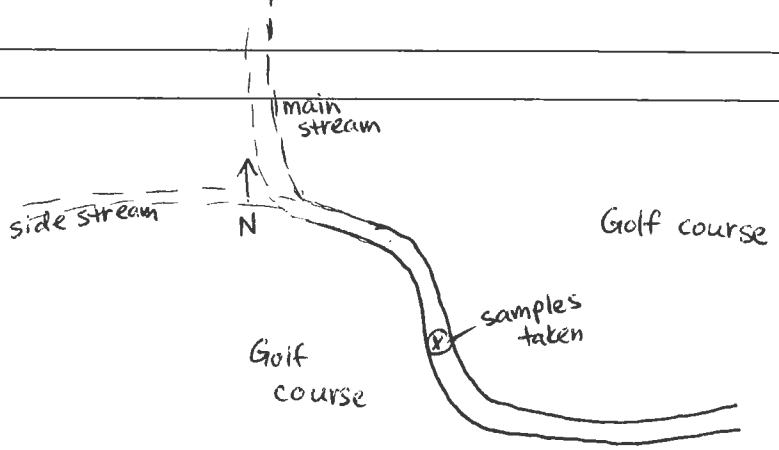
Sample Container: 2x 125mL HDPE

Preservative: 4°C

Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: water depth ~ 1.0'

Temp: 15.07°C
cond: 0.659 mS/cm
DO: 9.38 mg/L
pH: 7.88
ORP: 156.0 mV
Turb: 5.51 NTU



4 photos taken

QAQC'd by: Michael H. Lounsbury

Date: 12/5/14

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/ ~~FT030P~~ FT003P

Date: 9/29/14

Sample Technician(s): Danielle Lerner, Michael Lounsbury

Location ID: POND OUTFALL

Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

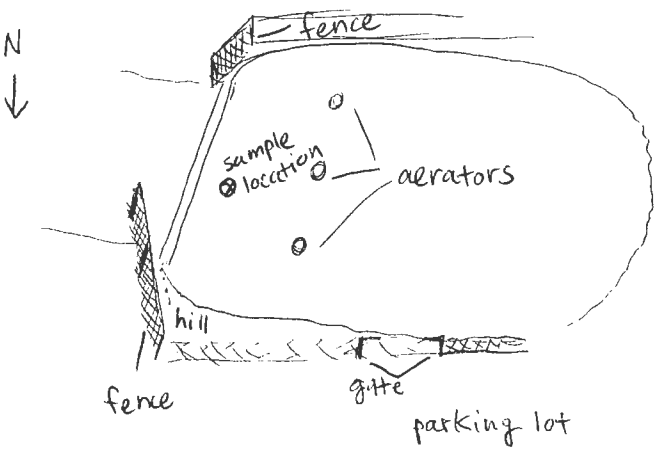
Sample ID: PLTSB-SD-009
Sample Collection Time: 1344
Sample Depth: 0-0.3'
Sediment Description: black muck/silt/organic swamp odor
Collection Method: SS Dipper
Analysis/Method: PFCs (LC/MS/MS)
Sample Container: 125mL HDPE
Preservative: 4°C

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-009
Sample Collection Time: 1344
Sample Depth: ~3'
Collection Method: SS Dipper
Analysis/Method: PFCs (LC/MS/MS)
Sample Container: 2x 125mL HDPE
Preservative: 4°C
Water Quality (circle one): Clear (Cloudy) Turbid Other
aerated (3 sets in pond)

COMMENTS: water depth: ~4'

Temp: 16.43°C
cond: 0.345 mS/cm
DO: 9.08 mg/L
pH: 7.95
ORP: 139.6 mV
Turb: 4.32 NTU



5 photos taken at this location.

QAQC'd by: Michael H. Lounsbury
Date: 12/5/14

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (mm)
Date: 9/29/14
Sample Technician(s): Danielle Lerner, Michael Lounsbury
Location ID: POND INLET
Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

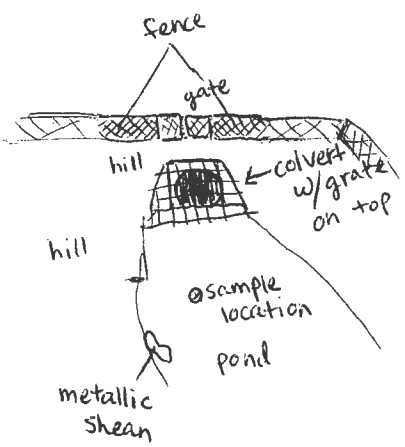
Sample ID: PLTSB-SD-008
Sample Collection Time: 1420
Sample Depth: 0-0.3'
Sediment Description: light brown sand with light chemical odor
Collection Method: SS dipper
Analysis/Method: PFCs (LC/MS/MS)
Sample Container: 125mL HDPE
Preservative: 4°C

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-008
Sample Collection Time: 1420
Sample Depth: ~1.0'
Collection Method: SS ~~bucket~~ (DX) dipper
Analysis/Method: PFCs (LC/MS/MS)
Sample Container: 2x 125mL (HDPE)
Preservative: 4°C
Water Quality (circle one): Clear (Cloudy) (Turbid) Other

COMMENTS: water depth: ~1.5'
metallic shean present
light orange color

Temp: 15.74°C
cond: 0.336 mS/cm
DO: 5.67 mg/L
pH: 7.43
ORP: -3.6 mV
Turb: 19.7 NTU



5 photos taken at this location

QAQC'd by: Rachel H. Lerner
Date: 12/5/14

Sediment and Surface Water Sample Collection Log

Rev. 1, Date: 07/21/2014

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/~~FT030P~~ FT002P

Date: 9/29/14

Sample Technician(s): Danielle Lerner, Michael Lounsbury

Location ID: EFEFF-1

Type(s) of Sample (circle all that apply): Sediment (Surface Water)

SEDIMENT SAMPLE

Sample ID: No sediment collected

Sample Collection Time: ~~NA~~

Sample Depth:

Sediment Description:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-006

Sample Collection Time: 1500

Sample Depth: collected from 6" discharge pipe draining E

Collection Method: SS dipper

Analysis/Method: PFCs (LC/MS/MS)

Sample Container: 2x 125mL HDPE

Preservative: 4°C

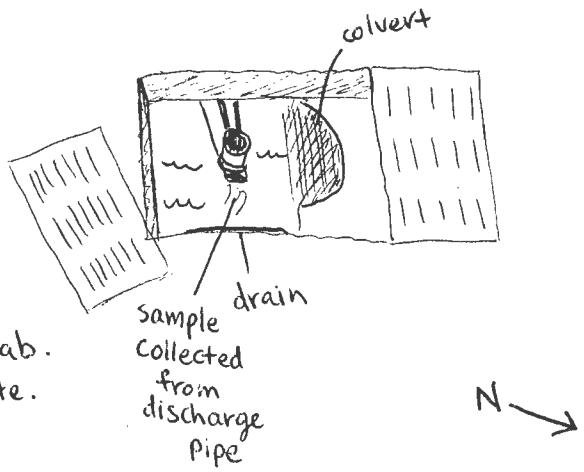
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: water depth ~10' from ground surface.
Note: 5' drainage south with little flow.

Temp: 15.85°C
cond: 0.354ms/cm
DO: 6.10mg/L
pH: 7.56
ORP: -75.1mV
Turb: 0.98NTU

No sediment in EFEFF-1. only concrete slab.
Orange deposit (very thin) on surface of concrete.

~~4 Sam~~ 4 Photos taken at this location



QAQC'd by: MH

Date: 9/15/14

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/ ~~FT030P~~ F002P (MKL)

Date: 9/29/14

Sample Technician(s): Danielle Lerner, Michael Lounsbury

Location ID: 1A-NORTH

Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

Sample ID: PLTSB-SD-007

Sample Collection Time: 1133

Sample Depth: 0-0.1'

Sediment Description: brown sand

Collection Method: SS Dipper

Analysis/Method: PFCs (LC/MS/MS)

Sample Container: 125mL HDPE

Preservative: 4°C

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-007

Sample Collection Time: 1133

Sample Depth: surface

Collection Method: SS Dipper

Analysis/Method: PFCs (LC/MS/MS)

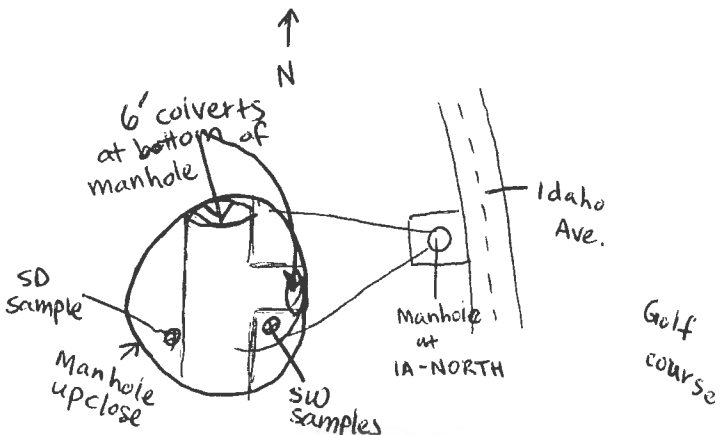
Sample Container: 2x 125mL HDPE

Preservative: 4°C

Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: 10.75' to water from ground surface

Temp: 14.63°C
cond: 0.755mS/cm
DO: 9.58mg/L
pH: 7.91
ORP: -15.3mV
Turb: 10.2mV



3 photos taken

QAQC'd by: Michael H. Lounsbury

Date: 12/5/14

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MHL)

Date: 9/30/14

Sample Technician(s): Michael Lounsbury, Danielle Lerner

Location ID: PLTSB-FT002P-009

Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

Sample ID: PLTSB-SD-001 | Sample Collection Time: 1510

Sample Depth: 0-0.3' | Sediment Description: orange-brown sand w/ little silt

Collection Method: SS Dipper and trowel | Analysis/Method: PFCs (LC/MS/MS)

Sample Container: 125mg/L HDPE | Preservative: 4°C

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-001 | Sample Collection Time: 1510

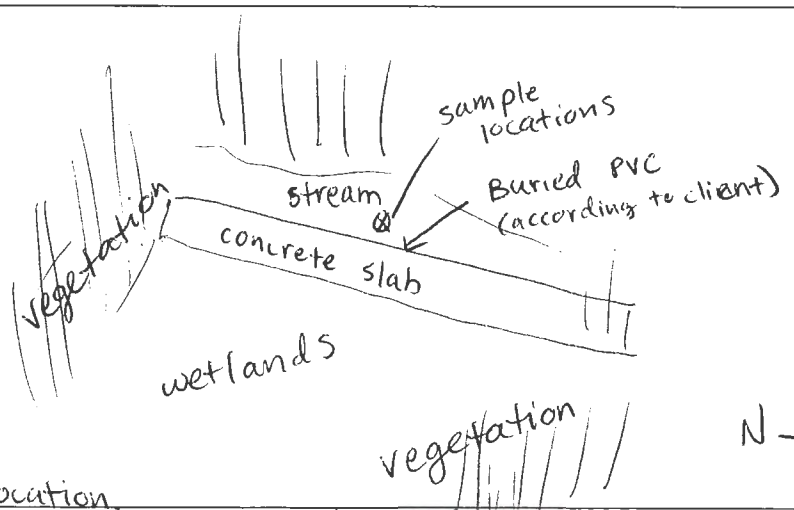
Sample Depth: ~~0.5~~ (DA) 0.4' | Collection Method: SS dipper

Analysis/Method: PFCs (LC/MS/MS) | Sample Container: 2x 125mg/L HDPE

Preservative: 4°C | Water Quality (circle one): Clear (Cloudy) Turbid Other

COMMENTS: water depth: 0.5'

Temp: 12.8°C
cond: 0.536mS/cm
DO: 4.66 mg/L
pH: 6.75
ORP: -46.8mV
Turb: 102 NTU



5 Photos taken at this location.

QAQC'd by: Mehl H. Jan | Date: 12/5/14

Sediment and Surface Water Sample Collection Log

Rev. 1, Date: 07/21/2014

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MKL)

Date: 7/30/14

Sample Technician(s): Michael Lounsbury, Danielle Lerner

Location ID: PLTSB-FT002-010

Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

(PLTSB-SD-003)

Sample ID: PLTSB-SD-002 Sample Collection Time: 1415

Sample Depth: 0-0.3' Sediment Description: brown mud w/ orange deposits

Collection Method: SS dipper, bowl, spoon Analysis/Method: PFCs (LC/MS/MS)

Sample Container: 125mL HDPE Preservative: 4°C

SURFACE WATER SAMPLE

(PLTSB-SD-003)

Sample ID: PLTSB-SW-002 Sample Collection Time: 1415

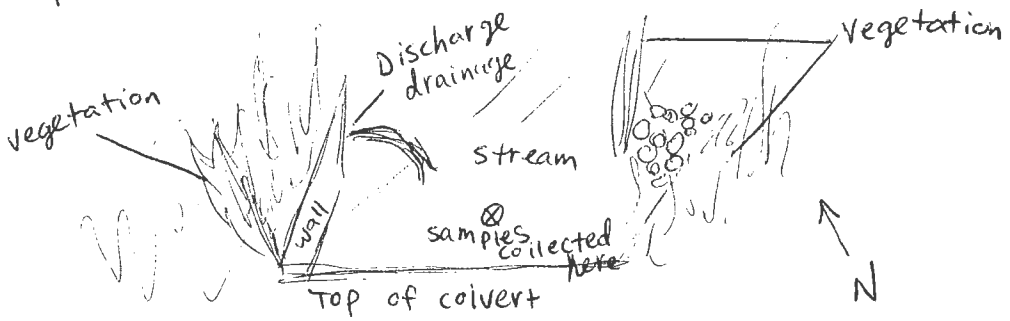
Sample Depth: 0.3' Collection Method: SS Dipper

Analysis/Method: PFCs (LC/MS/MS) Sample Container: 125mL HDPE

Preservative: 4°C Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: Duplicate samples collected here (PLTSB-SD-003, PLTSB-SW-003)
MS/MSD samples also collected here.
water depth: ~0.5'

Temp: 12.62°C
cond: 0.553 mS/cm
DO: 10.03 mg/L
pH: 7.82
ORP: -80.2
Turb:



5 photos taken at this site.

QAQC'd by: Michelle M. Young Date: 12/5/14

Sediment and Surface Water Sample Collection Log

Rev. 1, Date: 07/21/2014

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MMG)

Date: 9/30/14

Sample Technician(s): Michael Lounsbury, Danielle Lerner

Location ID: PLTSB-FT002-011

Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

Sample ID: PLTSB-SD-004

Sample Collection Time: (DA) ~~1335~~ 1335

Sample Depth: 0-0.3'

Sediment Description: orange-brown coarse sand

Collection Method: SS dipper and trowel

Analysis/Method: PFCs (LC/MS/MS)

Sample Container: 125mL HDPE

Preservative: 4°C

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-004

Sample Collection Time: 1335

Sample Depth: (DA) ~~1.0'~~ 0.4'

Collection Method: SS dipper

Analysis/Method: PFCs (LC/MS/MS)

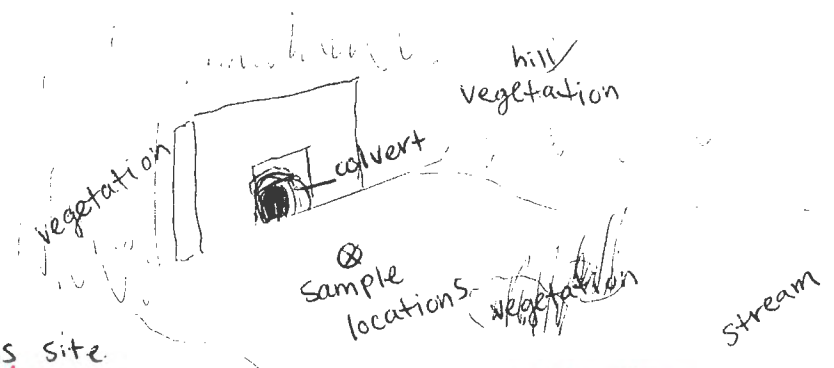
Sample Container: 2x 125mL HDPE

Preservative: 4°C

Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: water depth: ~1.0'
little metallic sheen present

Temp: 14.16°C
cond: 0.516 mS/cm
DO: 11.77 mg/L
pH: 7.84
ORP: 27.5 mV
Turb: 4.11 NTU



5 photos taken at this site.

QAQC'd by: Michael H. Young

Date: 12/5/14

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MW)
Date: 9/30/14
Sample Technician(s): Michael Lounsbury, Danielle Lerner
Location ID: PLTSB-FT002P-012
Type(s) of Sample (circle all that apply): (Sediment) (Surface Water)

SEDIMENT SAMPLE

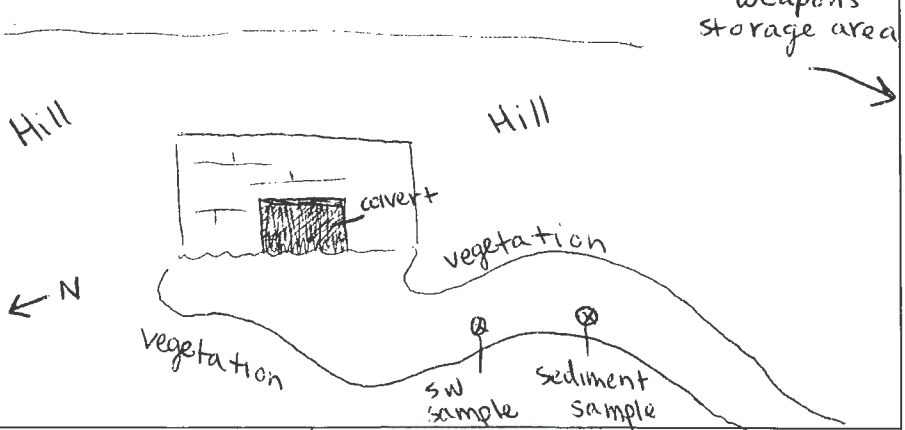
Sample ID: PLTSB-SD-005
Sample Collection Time: 1121
Sample Depth: 0-0.3'
Sediment Description: brown w/ light orange fine to mdm sand
Collection Method: SS bowl and spoon
Analysis/Method: PFCs (LC/MS/MS)
Sample Container: 125mL HDPE
Preservative: 4°C

SURFACE WATER SAMPLE

Sample ID: PLTSB-SW-005
Sample Collection Time: 1121
Sample Depth: 0.2'
Collection Method: Grab
Analysis/Method: PFCs (LC/MS/MS)
Sample Container: 2x 125mL HDPE
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: water depth: ~1.0'
Little metallic sheen present on waters surface

Temp: 14.94°C
cond: 0.517ms/cm
DO: 10.57mg/L
PH: 7.76
ORP: 51.3mV
Turb: 4.53NTU



5 photos taken at this location

QAQC'd by: Michael H. Lounsbury
Date: 12/5/14

Sediment and Surface Water Sample Collection Log

Rev. 1, Date: 07/21/2014

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/~~FT030P~~ FT002P

Date: 9/30/14

Sample Technician(s): Michael Lounsbury, Danielle Lerner

Location ID: PLTSB-FT002P-BLK

Type(s) of Sample (circle all that apply): Sediment Surface Water

SEDIMENT SAMPLE

Sample ID: _____ Sample Collection Time: _____

Sample Depth: _____ Sediment Description: _____

Collection Method: _____ Analysis/Method: _____

~~Sample~~ Container: _____ Preservative: _____

SURFACE WATER SAMPLE

Sample ID: PLTSB-FT002P-BLK12 Sample Collection Time: 1150

Sample Depth: _____ Collection Method: Direct pour from HDPE storage container

Analysis/Method: PFCs (LC/MS/MS) Sample Container: 2x 125mL HDPE

Preservative: 4°C Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS:

Field Blanks

QAQC'd by: _____ Date: 12/5/14

Sediment and Surface Water Sample Collection Log

Rev. 1, Date: 07/21/2014

SEDIMENT AND SURFACE WATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P-(MW)

Date: 9/30/14

Sample Technician(s): Michael Lounsbury, Danielle Lerner

Location ID: PLTSB-FT002P-BLK.

Type(s) of Sample (circle all that apply): Sediment Surface Water

SEDIMENT SAMPLE

Sample ID: _____ Sample Collection Time: _____

Sample Depth: _____ Sediment Description: _____

Collection Method: _____ Analysis/Method: _____

Sample Container: _____ Preservative: _____

SURFACE WATER SAMPLE

Sample ID: PLTSB-FT002P-BLK11 Sample Collection Time: 1150

Sample Depth: _____ Collection Method: SS Dipper, bowl, spoon

Analysis/Method: PFCs (LC/MS/MS) Sample Container: 2x 125mL HDPE

Preservative: 4°C Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS:

Equipment Blank

QAQC'd by: Michael H. Lounsbury Date: 12/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MM4)
Date: 9/29/14
Sample Technician: Danielle Lerner
Location ID (Well ID): PRB-15

Measurements

Well Total Depth: 10.1 ft below TOC
Initial Water Level: 4.25 ft below TOC
Final Water Level: 5.90 ft below TOC
Calculated Well Volume: 1.0 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Parastaltic
Flow rate (incl. units): 180 mL/min.

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1618	Begin	purging									
1622	220	5.91	99.1	17.69	0.929	6.99	N/A	0.60	-116.7		
1626	180	5.93	53.3	17.54	0.938	6.99	N/A	0.54	-118.8		
1630	180	5.90	48.5	17.65	0.939	7.00	N/A	0.49	-120.8		
1634	180	5.90	32.3	17.55	0.937	7.00	N/A	0.44	-122.3		
1638	180	5.90	23.6	17.50	0.937	7.00	N/A	0.43	-123.4		
1642	180	5.90	15.0	17.44	0.936	7.00	N/A	0.43	-123.9		
1646	180	5.90	9.76	17.39	0.935	7.00	N/A	0.39	-125.0		
1650	180	5.90	9.60	17.28	0.937	7.00	N/A	0.35	-125.0		
1654	180	5.90	6.15	17.20	0.938	6.99	N/A	0.30	-124.9		
1658	180	5.90	5.12	17.18	0.939	6.99	N/A	0.30	-125.2		
1702	180	5.90	2.91	17.10	0.937	7.00	N/A	0.32	-125.6		
1710	Collect	samples									
					DUP						
Results During Sample Collection:			2.9	17	0.940	7.0	—	0.3	-130		

Sample ID: PLTSB-GW-008
Sample Collection Time: 1710
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: Total gallons purged: 2.4 gal.

QAQC'd by:
Date: 10/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P MMU
Date: 9/30/14
Sample Technician: Danielle Lerner, Michael Lounsbury
Location ID (Well ID): PLTSB-FT002P-013

Measurements

Well Total Depth: N/A ft below TOC
Initial Water Level: N/A ft below TOC
Final Water Level: N/A ft below TOC
Calculated Well Volume: N/A Gallons
Well Diameter: N/A inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Grab from spigot
Flow rate (incl. units): 255 gal/min.

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1610	255gpm	N/A	0.81	13.50	0.528	7.25	N/A	3.90	14.8	~4	

Results During Sample Collection:

Sample ID: PLTSB-INF-001
Sample Collection Time: 1610
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS:

4 photos taken at this location

QAQC'd by: MH
Date: 10/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (mh)
Date: 9/30/14 / 10/2/14
Sample Technician: Danielle Lerner, Michael Lounsbury
Location ID (Well ID): PLTSB-FT002P-014

Measurements

Well Total Depth: N/A ft below TOC
Initial Water Level: N/A ft below TOC
Final Water Level: N/A ft below TOC
Calculated Well Volume: N/A Gallons
Well Diameter: N/A inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): grab from spigot
Flow rate (incl. units): 305 gal/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1415	Collect	Samples									
1420	~~0~~305	NA	11.5	15.17	0.541	8.25	NA	11.15	95.2	NA	
Results During Sample Collection:			11.5	15.17	0.541	8.25	NA	11.15	95.2	NA	

Sample ID: PLTSB-~~E~~FF-001 PLTSB-EFF-002
Sample Collection Time: 1415
Sample bottle type: 8x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): Clear (Cloudy) Turbid Other

COMMENTS:
PLTSB-EFF-001 is also MS/MSD
PLTSB-EFF-002 is a duplicate field sample
Unable to sample on 9/30/14 because no water came out of spigot. Returned 10/2/14 to sample.

QAQC'd by: Date: 12/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P
Date: 9/30/14
Sample Technician: Michael Lounsbury, Danielle Lerner
Location ID (Well ID): PRB-02

Measurements

Well Total Depth: 10.00 ~~4.34~~ ft below TOC
Initial Water Level: 3.78 ft below TOC
Final Water Level: 4.78 ft below TOC
Calculated Well Volume: 1.0 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): perastaltic
Flow rate (incl. units): 200 mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1648	Begin	purging.									
1650	200	4.78	nm	15.62	0.224	7.71	—	8.73	52.9		
1655	200	4.78	nm	15.45	0.225	7.63	—	8.64	69.7		
1700	200	4.78	nm	15.29	0.221	7.59	—	8.67	77.5		
1705	200	4.78	nm	15.28	0.220	7.58	—	8.59	82.1		
1710	200	4.78	nm	15.28	0.220	7.57	—	8.67	84.0		
1715	200	4.78	1.34	15.25	0.220	7.56	—	8.60	81.2		
1720	Collect	samples									
Results During Sample Collection:			1.3	15	0.220	7.6	NA	8.6	87	NA	

Sample ID: PLTSB-GW-007
Sample Collection Time: 1720
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS:

Turbidity meter down - will monitor visually and collect final reading. Redeveloped well for 15-20 min and purged ~1 gal of sand and plant matter out of well.

1 photo taken at this location Total gallons purged: ~~1.6~~ 1.7 gal

QAQC'd by: Date: 12/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MW)
Date: 10/1/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-GW011-23

Measurements

Well Total Depth: 22.06 ft below TOC
Initial Water Level: 4.49 ft below TOC
Final Water Level: 4.95 ft below TOC
Calculated Well Volume: 2.9 (DJ) ~~1.5~~ Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): perastaltic
Flow rate (incl. units): 160 mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped (DJ)	Comments
1644	Begin Purging										
1649	200	4.80	7.88	16.52	0.285	7.62	NA	0.42	-23.9	1L	
1654	200	4.95	5.90	16.59	0.285	7.73	NA	0.30	-59.5	2L	
1659	160	4.95	4.37	16.61	0.286	7.76	NA	0.36	-68.6	2.8L	
1704	160	4.95	3.25	16.59	0.286	7.78	NA	0.37	-79.7	3.6L	
1709	160	4.95	3.77	16.50	0.287	7.77	NA	0.38	-83.9	4.4L	
1714	160	4.95	2.50	16.44	0.288	7.75	NA	0.37	-87.2	5.2L	
1720	Collect Samples										
Results During Sample Collection:			2.50	16.44	0.288	7.75	NA	0.37	-87.2	5.2L	
			2.5	16	0.290	7.8	-	0.4	-88		

Sample ID: PLTSB-GW-003
Sample Collection Time: 1720
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: Total gallons purged: ~1.5 gal.

QAQC'd by:
Date: 10/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/~~FT030P~~ FT002P (mw)
Date: 10/1/19
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-11-004

Measurements

Well Total Depth: 17.2 ft below TOC
Initial Water Level: 8.00 ft below TOC
Final Water Level: 8.15 ft below TOC
Calculated Well Volume: 1.5 (DL) ~~2.34~~ Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): perastaltic
Flow rate (incl. units): 200mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped (DL)	Comments
0953	Begin purging										
0957	200	8.15	18.6	13.24	0.662	6.98	NA	0.48	-122.1	~~800mL~~ 0.8L (DL)	
1002	200	8.15	9.81	13.25	0.666	6.93	NA	0.40	-120.6	1.8L	
1007	200	8.15	7.59	13.29	0.665	6.93	NA	0.36	-118.1	2.8L	
1012	200	8.15	6.69	13.30	0.670	6.92	NA	0.32	-116.5	3.8L	
1017	200	8.15	7.16	13.30	0.664	6.92	NA	0.38	-114.3	4.8L	
1022	200	8.15	6.25	13.33	0.654	6.92	NA	0.37	-111.8	5.8L	
1027	200	8.15	5.42	13.34	0.644	6.91	NA	0.40	-109.3	6.8L	
1038	Collect samples										
Results During Sample Collection:			5.42	13.34	0.644	6.91	NA	0.40	-109.3	6.8L	
			5.4	13	0.64	6.9	—	0.4	-110		

Sample ID: PLTSB-GW-020
Sample Collection Time: 1038
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: Well ~8' from train tracks
Total gallons purged: 2.34 gal

QAQC'd by: [signature] Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MW)
Date: 10/1/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-11-008

Measurements

Well Total Depth: 15.90 ft below TOC
Initial Water Level: 6.71 ft below TOC
Final Water Level: 6.74 ft below TOC
Calculated Well Volume: 1.5 (DS) ~~3.12~~ Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): perastaltic
Flow rate (incl. units): 200 mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped (DS)	Comments
1341	Begin purging										
1346	200	6.74	41.4	16.21	7.363	6.88	NA	0.50	-93.9	1L	
1351	200	6.74	34.4	15.98	7.387	6.95	NA	0.32	-108.7	2L	
1356	200	6.74	31.7	15.94	7.286	6.96	NA	0.27	-112.2	3L	
1401	200	6.74	35.5	16.04	7.188	6.95	NA	0.31	-110.8	4L	
1406	200	6.74	28.5	16.03	7.157	6.95	NA	0.30	-111.7	5L	
1411	200	6.74	25.1	15.97	6.974	6.96	NA	0.29	-110.8	6L	
1416	200	6.74	26.7	15.92	6.919	6.95	NA	0.31	-109.9	7L	
1421	200	6.74	20.5	15.87	6.877	6.95	NA	0.28	-112.0	8L	
1426	200	6.74	17.7	15.89	6.750	6.95	NA	0.29	-111.5	9L	
1431	200	6.74	8.69	15.87	6.712	6.95	NA	0.23	-111.4	10L	
1436	200	6.74	8.98	15.89	6.647	6.95	NA	0.21	-112.5	11L	
1441	200	6.74	5.98	15.95	6.585	6.95	NA	0.21	-112.6	12L	
Results During Sample Collection:			5.98	15.95	6.585	6.95	NA	0.21	-112.6	12L	
			6.0	16	6.60	6.9	—	0.2	-110		

Sample ID: PLTSB-GW-021
Sample Collection Time: 1445
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: Total gallons purged: 3.12 gal

QAQC'd by:
Date: 10/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MH)
Date: 10/1/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-12-001R

Measurements

Well Total Depth: 16.60 ft below TOC
Initial Water Level: 13.25 ft below TOC
Final Water Level: 14.12 ft below TOC
Calculated Well Volume: 0.5 ~~1.7~~ (DL) Gallons
Well Diameter: 2 inches

Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): perastaltic
Flow rate (incl. units): 160 mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L (DL) Pumped	Comments
1141	Begin purging										(DL)
1146	208	13.62	17.6	13.64	0.724	6.52	NA	0.57	0.5	~~1000mL~~ 1L	
1151	200	13.89	10.4	13.69	0.725	6.46	NA	0.61	20.7	2L	
1156	200	14.08	4.17	13.78	0.714	6.50	NA	0.53	13.5	3L	
1201	160	14.12	2.18	13.79	0.702	6.51	NA	0.53	-3.4	3.8L	
1206	160	14.12	2.02	13.75	0.693	6.50	NA	0.54	-15.1	4.6L	
1211	160	14.12	1.55	13.72	0.683	6.49	NA	0.52	-18.2	5.4L	
1216	160	14.12	1.64	13.77	0.676	6.50	NA	0.52	-19.9	6.2L	
1221	Collect Samples										
Results During Sample Collection:			1.64	13.77	0.676	6.50	NA	0.52	-19.9	6.2L	

PLTSB-GW-023 1.6 14 0.680 6.5 - 0.5 -20

Sample ID: PLTSB-GW-022
Sample Collection Time: 1221
Sample bottle type: 8x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: PLTSB-GW-022 → Regular samples + MS/MSD
PLTSB-GW-023 → Field Duplicates
Total gallons purged: ~1.7 gal.

QAQC'd by: MH
Date: 10/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FTCOMP (AMEC)
Date: 10/1/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-02-073

Measurements

Well Total Depth: 13.68 ft below TOC
Initial Water Level: 7.30 ft below TOC
Final Water Level: 7.31 ft below TOC
Calculated Well Volume: ~~1.6~~ 1.0 (DS) Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): peristaltic
Flow rate (incl. units): 200mL/min L (DS)

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ Pumped	Comments
1539	Begin	purging									
1544	240	7.31	6.28	15.58	0.421	6.59	NA	4.61	103.6	1.2L	
1549	~~1500~~ (DS) 200	7.31	2.88	15.47	0.412	6.38	NA	4.39	129.2	2.2L	
1554	200	7.31	1.98	15.43	0.408	6.36	NA	4.28	133.3	3.2L	
1559	200	7.31	1.98	15.43	0.406	6.35	NA	4.30	137.5	4.2L	
1604	200	7.31	1.59	15.34	0.402	6.36	NA	4.21	142.5	5.2L	
1610	Collect	samples									
Results During Sample Collection:			1.59	15.34	0.402	6.36	NA	4.21	142.5	5.2L	
			1.6	15	0.400	6.4	-	4.2	140		

Sample ID: PLTSB-GW-017
Sample Collection Time: 1610
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: total gallons purged: ~1.6 gal

QAQC'd by: [signature]
Date: 10/15/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P
Date: 10/1/14
Sample Technician: M. Lansbury
Location ID (Well ID): MW-02-610

Measurements

Well Total Depth: 53.4 ft below TOC
Initial Water Level: 43.74 ft below TOC
Final Water Level: 43.75 ft below TOC
Calculated Well Volume: 1.6 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Geo Sub
Flow rate (incl. units): 275 ml/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ Liters Pumped	Comments
1444	500	43.86	2.85	9.68	0.391	7.13	NA	—	66.1	2	
1449	275	43.74	2.73	10.45	0.496	6.76	NA	10.84	756	2,275	
1454	275	43.74	1.61	10.51	0.485	6.95	NA	10.31	65.3	2,550	
1459	275	43.75	1.35	10.91	0.485	6.98	NA	10.22	61.5	2,875	
1504	275	43.75	1.20	10.63	0.479	7.01	NA	10.17	60.5	3,150	
1509	275	43.75	0.69	10.64	0.472	7.04	NA	10.13	60.9	3,425	
1514	275	43.75	0.69	10.64	0.470	7.04	NA	10.26	66.3	3,700	
Results During Sample Collection:			0.7	11	0.470	7.0	NA	10.2	61	3.7	

Sample ID: PLTSB-GW-611
Sample Collection Time: 10 1515
Sample bottle type: HDPE
Analysis/Method: PFC's (LC/ms/ms)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: mLPM x 0.00026 x Min purged = Gallons Purged
275 x 0.00026 x 30 = 2.145 Gallons

QAQC'd by: Date: 12/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (DA)
Date: 10/1/14
Sample Technician: M. Lounsbury
Location ID (Well ID): MW-02-017

Measurements

Well Total Depth: 44 ft below TOC
Initial Water Level: 32.70 ft below TOC
Final Water Level: 32.71 ft below TOC
Calculated Well Volume: 1.7 Gallons
Well Diameter: 2 inches

Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): GeoSub
Flow rate (incl. units): 400 ml/min

Time	Flow Rate (ml/min)	Depth to Water (ft. TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped - Liters	Comments
1630	500	32.73	29.1	9.94	0.411	7.54	NA	11.32	51.7	~~5.7~~	
1635	400	32.71	31.7	10.53	0.408	7.39	NA	9.63	59.2	.900	Cond Purge w/ Sleeve
1642	400	32.71	12.8	10.72	0.409	7.33	NA	9.37	59.7	1.3	
1647	400	32.71	7.29	10.32	0.403	7.31	NA	9.16	57.7	1.7	
1652	400	32.71	3.96	10.33	0.403	7.24	NA	9.12	58.6	2.1	
1657	400	32.71	3.07	10.31	0.402	7.23	NA	9.04	60.8	2.5	
1706	400	32.71	1.40	10.23	0.402	7.28	NA	9.02	61.3	3.0	
						DA					
Results During Sample Collection:			1.4	10	0.400	7.3	NA	9.0	61	3.0	

Sample ID: PITSB-GW-012
PITSB-GW-013
Sample Collection Time: 1710
Sample bottle type: HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS:
MS/MSD/Dup - Purge water Contaminated - Due to historical results.
mLPM x 0.00026 x Min Purged = Gallons Purged
400 x 0.00026 x 35 = 3.7 Gallons

QAQC'd by: DA Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/~~FT030P~~ FT002P
Date: 10/2/14
Sample Technician: M. Lounsbury
Location ID (Well ID): MW-GW04-25

Measurements

Well Total Depth: 45± ft below TOC
Initial Water Level: 32.48 ft below TOC
Final Water Level: 32.48 ft below TOC
Calculated Well Volume: 3.6 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Geo Sub
Flow rate (incl. units): 350

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped (mL)	Comments
1620	350	32.61	3.77	10.14	0.558	6.86	NM	0.57	-75.8	350	
1625	350	32.48	4.12	10.21	0.564	6.56	NM	0.27	-73.6	3850	
1630	350	32.48	5.03	10.55	0.560	6.54	NM	0.20	-78.2	4375	
1635	350	32.48	4.75	10.67	0.549	6.53	NM	0.26	-81.0	6300	
1640	350	32.48	5.61	10.37	0.549	6.51	NM	0.29	-81.3	8350	
1645	350	32.48	5.85	10.42	0.545	6.50	NM	0.33	-82.2	10350	
Results During Sample Collection:			5.9	10	0.550	6.5	NA	0.3	-83	10350	

Sample ID: PLTSB GW-004 / PLTSB-GW-005
Sample Collection Time: 1650
Sample bottle type: HDPE
Analysis/Method: PFC (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: Strong Fuel/chemical odor, sheen - Purge Water Contained at
MS/MSD/Dup
mLpm x 0.00026 x min purged = Gallons purged
350 x 0.00026 x 21 = 27 Gallons Pg

QAQC'd by: Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/~~FT030P~~ FT0028
Date: 10/2/14
Sample Technician: M. Lounsbury
Location ID (Well ID): ~~MW-~~ MW-GW04-15

Measurements

Well Total Depth: 59 ft below TOC
Initial Water Level: 38.25 ft below TOC
Final Water Level: 38.31 ft below TOC
Calculated Well Volume: 3.72 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): GeoSub
Flow rate (incl. units): 300 ml/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped	1,Hr Comments
1148	—	38.25	nm	12.70	0.861	7.91	NA	0.57	-90.5	1	
1211	300	38.31	9.99	12.75	0.870	7.85	NA	1.20	-98.1	1.3	restart pump
1216	300	38.31	3.16	12.59	0.858	7.79	NA	0.63	-94.3	1.6	
1221	300	38.31	2.42	12.93	0.866	7.75	NA	0.70	-106.3	1.9	
1226	300	28.31	0.91	12.93	0.873	7.73	NA	0.49	-111.2	2.2	
1231	300	08.31	1.40	12.95	0.870	7.73	NA	0.47	-113.2	2.5	
1235	300	38.31	0.44	12.90	0.869	7.72	NA	0.44	-114.3	2.8	
Results During Sample Collection:			0.4	13	0.870	7.7	NA	0.4	-114	2.8	

Sample ID: PLTSB-GW-001
Sample Collection Time: 12:40
Sample bottle type: HDPE
Analysis/Method: PFC's (LC/ms/ms)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: purge water containerized
Chemical odor
mLPM x 0.00026 x mn pursed = Gallons pursed
300 x 0.00026 x 45 = 3.51 Gallons

QAQC'd by: DA Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ (DF) FT002P
Date: 10/21/14
Sample Technician: M. Lounsbury
Location ID (Well ID): MW-GW04-16

Measurements

Well Total Depth: 46.3 ft below TOC
Initial Water Level: 32.43 ft below TOC
Final Water Level: 32.58 ft below TOC
Calculated Well Volume: 2.2 Gallons
Well Diameter: 2 inches

Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): GeoSub
Flow rate (incl. units): 300 ml/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ Pumped L	Comments
1027	250	32.53	15.5	12.68	0.984	7.38	NA	2.24	103.7	1	
1032	300	32.58	41.59	11.84	0.982	6.96	NA	0.48	82.6	1.3	
1037	300	32.58	2.91	12.23	0.988	6.96	NA	0.38	92.7	1.6	
1042	300	32.58	1.08	12.28	0.989	6.93	NA	0.35	91.4	1.9	
1047	300	32.58	1.03	12.27	0.994	6.77	NA	0.34	59.9	2.2	
1052	300	32.58	1.13	12.23	0.995	6.79	NA	0.35	54.8	2.5	
1057	300	32.58	1.18	12.09	0.997	6.87	NA	0.38	47.3	2.8	
1100	300	32.58	~~2.58~~ (DF)	12.07	0.998	6.89	NA	0.40	45.1	3.1	Turb. 1.88
1103	300	32.58	2.23	12.03	0.998	6.90	NA	0.41	42.9	3.4	
Results During Sample Collection:			2.2	12	1000	6.9	NA	0.4	43	3.4	

Sample ID: PLTSB-GW-002
Sample Collection Time: 1105
Sample bottle type: HDPE
Analysis/Method: PFC's (LC/MS/MS)
Preservative: HCL
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: mL PM x 0.00026 x min purged = Gallons Purged
300 x 0.00026 x 35 = 2.73 Gallons

QAQC'd by: DF
Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P
Date: 10/29/14
Sample Technician: M. Loynsbury
Location ID (Well ID): MW-GW004-27

Measurements

Well Total Depth: 84 ft below TOC
Initial Water Level: 31.46 ft below TOC
Final Water Level: 31.78 ft below TOC
Calculated Well Volume: 8.41 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Geo Sub
Flow rate (incl. units): 300 ml/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ Pumped	Comments
1512	600	31.94	71.6	10.27	0.508	8.26	NA	15.17	636	1	like
1517	300	31.78	26.6	10.39	0.499	7.95	NA	1.29	-192	3000	
1522	300	31.78	12.6	10.56	0.563	7.90	NA	0.87	-609	4500	
1527	300	31.78 ~~3.78~~	5.18	10.49	0.506	7.86	NA	0.76	-724	6000	
1532	300	31.78 ~~3.78~~	2.28	10.38	0.509	7.83	NA	0.68	-838	7500	
1537	300	31.78 ~~3.78~~	1.44	10.34	0.511	7.82	NA	0.66	-849	9000	
1542	300	31.78 ~~3.78~~	1.16	10.30	0.513	7.80	NA	0.66	-857	10500	
Results During Sample Collection:			1.2	10	0.510	7.8	NA	0.7	-86	10500	

Sample ID: PLTSB-GW-006
Sample Collection Time: 1545
Sample bottle type: HDPE
Analysis/Method: PFC's (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: mLpm x 0.00026 x Min Purged = Gallons purged
300 x 0.00026 x 30 = 2.0 gallons

QAQC'd by: Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002A (MW)
Date: 10/2/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-02-019

Measurements

Well Total Depth: 25.76 ft below TOC
Initial Water Level: 16.04 ft below TOC
Final Water Level: 16.12 ft below TOC
Calculated Well Volume: 1.6 ~~3.12~~ (DL) ~~1.3~~ Gallons
Well Diameter: 2 inches

Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): peristaltic
Flow rate (incl. units): 200 mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L (DL) Pumped	Comments
1458	Begin	purging									
Pump	stopped	working. Readjusted	and	got	it	working	again.				
1521	Begin	purging	again.								
1526	200	16.12	87.2	12.08	0.848	7.49	NA (DL) ~~0.38~~	0.38	-147.7	1.0	
1531	200	16.12	53.0	12.07	0.854	7.41	NA	0.31	-151.1	2.0	
1536	200	16.12	34.0	11.92	0.854	7.39	NA	0.28	-151.3	3.0	
1541	200	16.12	32.7	11.78	0.847	7.40	NA	0.30	-151.7	4.0	
1546	200	16.12	25.5	11.78	0.844	7.39	NA	0.28	-150.0	5.0	
1551	200	16.12	21.9	11.80	0.841	7.39	NA	0.26	-151.4	6.0	
1556	200	16.12	18.0	11.74	0.837	7.39	NA	0.26	-150.7	7.0	
1601	200	16.12	16.0	11.72	0.833	7.40	NA	0.27	-150.5	8.0	
1606	200	16.12	16.1	11.64	0.828	7.38	NA	0.25	-149.8	9.0	
1611	200	16.12	~~14.8~~ (DL)	11.58	0.824	7.38	NA	0.25	-149.2	10.0	
1620	Collect samples		14.8								
Results During Sample Collection:			14.8	11.58	0.824	7.38	NA	0.25	-149.2	10.0	
			15	12	0.820	7.4	—	0.13	-150		

Sample ID: PLTSB-GW-014
Sample Collection Time: 1620
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): Clear Cloudy (Turbid) Other

COMMENTS:
Total gallons purged: ~3.12 gal

QAQC'd by: M.H. Lang
Date: 12/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FTOOdP
Date: 10/2/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-02-046

Measurements

Well Total Depth: 44.75 ft below TOC
Initial Water Level: 14.30 ft below TOC
Final Water Level: 14.31 ft below TOC
Calculated Well Volume: ~~~2.0~~ ~50 Gallons
Well Diameter: 2 inches

Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): perastaltic
Flow rate (incl. units): 180 mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1204	Begin	purging									
1209	180	14.31	5.78	14.84	0.420	7.49	NA	0.47	108.0	0.9L	
1214	180	14.31	3.27	15.01	0.420	7.46	NA	0.42	100.2	1.8L	
1219	180	14.31	3.51	14.95	0.420	7.45	NA	0.36	92.8	2.7L	
1224	180	14.31	3.35	14.91	0.420	7.45	NA	0.33	84.6	3.6L	
1229	180	14.31	3.08	14.96	0.420	7.45	NA	0.32	76.7	4.5L	
1234	180	14.31	3.81	14.88	0.421	7.46	NA	0.31	72.6	5.4L	
1239	180	14.31	3.61	14.75	0.421	7.45	NA	0.30	70.9	6.3L	
1246	collect samples										
Results During Sample Collection:			3.61	14.75	0.421	7.45	NA	0.30	70.9	6.3L	
			3.6	15	0.420	7.5		0.3	71		

Sample ID: PLTSB-GW-015
Sample Collection Time: 1246
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: Total gallons purged: ~ 2.0 gal.

QAQC'd by:
Date: 12/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT009P (MML)
Date: 10/2/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-02-047

Measurements

Well Total Depth: 34.74 ft below TOC
Initial Water Level: 8.07 ft below TOC
Final Water Level: 8.09 ft below TOC
Calculated Well Volume: 4.3 (DJ) ~~1.9~~ Gallons
Well Diameter: 2 inches

Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): peristaltic
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped (DJ)	Comments
1031	Begin	purging.									
1036	180	8.09	9.56	14.06	0.222	7.79	NA	0.50	78.1	0.9L	
1041	180	8.09	5.98	14.03	0.226	7.78	NA	0.46	4.0	1.8L	
1046	180	8.09	5.23	14.02	0.227	7.76	NA	0.35	-38.5	2.7L	
1051	180	8.09	3.47	13.89	0.227	7.75	NA	0.31	-58.9	3.6L	
1056	180	8.09	3.13	13.99	0.226	7.76	NA	0.30	-69.9	4.5L	
1101	180	8.09	2.76	13.96	0.225	7.75	NA	0.29	-75.3	5.4L	
1106	180	8.09	2.76	13.81	0.227	7.77	NA	0.29	-74.2	6.3L	
1111	Collect	Samples									
Results During Sample Collection:			2.76	13.81	0.227	7.77	NA	0.29	-74.2	6.3L	
			2.8	14	0.230	7.8	—	0.3	-24		

Sample ID: PLTSB-GW-016
Sample Collection Time: 1111
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS:
Total gallons purged: ~1.9 gal

QAQC'd by:
Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P
Date: 10/2/14
Sample Technician: M. Lansbury
Location ID (Well ID): MW-02-083

Measurements

Well Total Depth: 52.2 ft below TOC
Initial Water Level: 21.14 ft below TOC
Final Water Level: 20.39 ft below TOC
Calculated Well Volume: 5.0 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Geo Sub
Flow rate (incl. units): 300 ml/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped	Comments
856	300	20.35	19.6	12.67	0.445	6.81	NA	6.52	134.0	1.0	
901	300	20.39	15.4	12.29	0.458	5.45	NA	1.63	98.3	1.3	
906	300	20.39	11.0	12.93	0.441	6.05	NA	1.32	35.0	1.6	
913	300	20.39	5.15	12.60	0.436	6.60	NA	1.19	-13.7	1.9	
918	300	20.39	4.77	12.54	0.434	6.78	NA	0.88	-35.4	2.2	
923	300	20.39	4.13	12.55	0.431	6.93	NA	0.67	-59.6	2.5	
928	300	20.39	2.81	12.58	0.427	7.03	NA	0.53	-72.4	2.8	
933	300	20.39	2.61	12.54	0.421	7.13	NA	0.44	-84.3	3.1	
937	300	20.39	2.17	12.59	0.424	7.14	NA	0.42	-88.1	3.4	
941	300	20.39	2.47	12.68	0.423	7.22	NA	0.38	-91.9	3.7	
Results During Sample Collection:			2.5	13	0.420	7.2	NA	0.4	-92	3.7	

Sample ID: PLTSB-GW-018
Sample Collection Time: 941
Sample bottle type: HDPE
Analysis/Method: PFC's (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: Purge water Contained/ mL Pm X 0.00026 X min purged = Gallons pumped
300 X 0.00026 X 45 = 3.51 5 Gallons

QAQC'd by: Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MW)
Date: 10/2/14
Sample Technician: Danielle Lemer
Location ID (Well ID): MW-02-089

Measurements

Well Total Depth: 25.64 ft below TOC
Initial Water Level: 20.25 ft below TOC
Final Water Level: 20.28 ft below TOC
Calculated Well Volume: 0.9 (DL) ~~2.4~~ Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): peristaltic
Flow rate (incl. units): 160 mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped (DL)	Comments
0901	Begin	Purging									
(DL) 0906	~~160~~ ~~20.28~~	~~20.28~~	10.3	14.86	0.227	7.51	NA	8.57	114.2	~~0.8~~ (DL) 0.8L	
0911	160	20.28	8.64	14.37	0.257	7.35	NA	9.30	125.7	1.6L	
0916	160	20.28	8.35	14.28	0.277	7.30	NA	8.74	125.9	2.4L	
0921	160	20.28	8.69	14.25	0.296	7.25	NA	8.15	121.9	3.2L	
0926	160	20.28	7.30	14.27	0.308	7.23	NA	7.86	118.1	4L	
0931	160	20.28	6.27	14.38	0.313	7.23	NA	7.51	114.8	4.8L	
0936	160	20.28	3.95	14.47	0.330	7.22	NA	4.99	112.4	5.6L	
0941	160	20.28	3.13	14.49	0.313	7.24	NA	5.58	109.7	6.4L	
0946	160	20.28	2.18	14.46	0.314	7.24	NA	5.53	108.7	7.2L	
0951	160	20.28	2.07	14.48	0.319	7.25	NA	5.55	107.5	8L	
0958	Collect	samples									
			2.								
Results During Sample Collection:			~~2.07~~ 2.1	14.48 14	0.319 0.320	7.25 7.3	NA –	5.55 5.6	107.5 110	8L	

Sample ID: PLTSB-GW-019
Sample Collection Time: 0958
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS:
Total gallons purged - ~2.4gal.

QAQC'd by: Rachel H. Young Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/~~FT030P~~ FT002P (MW)
Date: 10/3/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-02-094

Measurements

Well Total Depth: 42.40 ft below TOC
Initial Water Level: 28.45 ft below TOC
Final Water Level: 28.47 ft below TOC
Calculated Well Volume: ~~1.9~~ 2.3 (DL) Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Mega Typhoon Pro
Flow rate (incl. units): 220 mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L (DL) Pumped	Comments
0803	Begin purging										
0805	220	28.47	21.9	11.58	0.932	7.28	NA	0.24	-163.7	1.1	
0810	220	28.47	10.2	11.63	0.936	7.26	NA	0.20	-166.4	2.2	
0815	220	28.47	8.09	11.79	0.935	7.34	NA	0.24	-167.5	3.3	
0820	220	28.47	5.01	11.82	0.938	7.37	NA	0.24	-169.4	4.4	
0825	220	28.47	3.06	11.70	0.942	7.34	NA	0.23	-166.3	5.5	
0830	220	28.47	3.78	11.82	0.343	7.33	NA	0.24	-161.4	6.6	
0836	Collect samples										
Results During Sample Collection:			3.78	11.82	0.343	7.33	NA	0.24	-161.4	6.6	
			3.8	12	0.340	7.3	—	0.2	-160		

Sample ID: PLTSB-GW-~~026~~ 009
Sample Collection Time: 0836
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS:
This is an alternate well as MW-02-006 has a dent in its casing at ~3' and we are unable to get a pump down it.

Total Gallons purged: ~1.9 gal

QAQC'd by: Michelle Young
Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P
Date: 10/3/14
Sample Technician: M. Lounsbury
Location ID (Well ID): Sample Blank on Geo Sub Pump

Measurements

Well Total Depth: _____ ft below TOC
Initial Water Level: _____ ft below TOC
Final Water Level: _____ ft below TOC
Calculated Well Volume: _____ Gallons
Well Diameter: _____ inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Geo Sub
Flow rate (incl. units): N/A

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results During Sample Collection:											

Sample ID: PLTSB-FT002P-Blk-01
Sample Collection Time: 915
Sample bottle type: HDPE
Analysis/Method: PFC's (L/ms/ms)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other _____

COMMENTS:
Equipment Blank on Geo Sub pump

QAQC'd by: _____ Date: 12/5/14

Groundwater Sample Collection Log
Rev. 1, Date: 07/21/2014

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/~~FT030P~~ FT002P DF
Date: 10/3/14
Sample Technician: M. Lounsbury
Location ID (Well ID): MW-22-003

Measurements

Well Total Depth: 58.5 ft below TOC
Initial Water Level: 45.11 ft below TOC
Final Water Level: 45.20 ft below TOC
Calculated Well Volume: 2.14 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): GeoSub
Flow rate (incl. units): 350 ml/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ mL Pumped DF	Comments
835	350	42.20	28.2	10.35	0.889	7.13	NA	26.50	~~831~~ DF	350	16.5
840	350	45.20	6.36	10.65	0.766	5.10	NA	8.48	~~768~~	1850	16.5
845	350	45.20	3.38	10.65	0.765	5.15	NA	8.12	588	3850	
850	350	45.20	1.80	10.65	0.761	5.43	NA	8.12	144.9	5050	
855	350	45.20	1.44	10.63	0.757	5.50	NA	8.03	142.9	7050	
900	350	45.20	1.45	10.61	0.757	5.53	NA	8.06	146.1	9400	
Results During Sample Collection:			1.5	~~10.7~~ 11 DF	0.760	5.5	NA	8.1	146	7400	

Sample ID: PLTSB-GW-~~2324~~ 0 DF
Sample Collection Time: DF ~~400~~ 905
Sample bottle type: HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): (Clear) Cloudy Turbid Other

COMMENTS: mL/min x 0.00026 x min Purged = Gallons
350 x 0.00026 x 25 = 2.7 Gallons Purged

QAQC'd by: DF Date: 12/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177

AMEC Proj No: 775290177.0010.300B

Installation/Site: Plattsburgh/ ~~FT030P~~ FT001P

Date: 10/3/14

Sample Technician: Danielle Lerner

Location ID (Well ID): MW-22-008

Measurements

Well Total Depth: 92.30 ft below TOC

Initial Water Level: ~~45.61~~ 46.86 ft below TOC

Final Water Level: 46.53 ft below TOC

Calculated Well Volume: ~~8.0~~ 7.4 Gallons

Well Diameter: 2 inches

Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): ~~Mega Typhoon Pro~~ Geo Sub

Flow rate (incl. units): 300mL/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1102	Begin	purging.									
1107	300	46.40	1000+	12.16	0.239	7.94	NA	0.23	-176.8	1.5	
1112	300	46.38	993	12.04	0.238	7.93	NA	0.20	-179.2	3	
1117	300	46.40	713	12.08	0.239	7.93	NA	0.20	-180.6	4.5	
1122	300	46.42	531	12.10	0.238	7.94	NA	0.16	-181.8	6	
1127	300	46.44	367	12.10	0.238	7.93	NA	0.14	-182.8	7.5	
1132	300	46.46	286	12.12	0.238	7.90	NA	0.14	-182.8	9	
1137	300	46.42	249	12.11	0.238	7.94	NA	0.11	-185.6	10.5	
1142	300	46.46	198	12.02	0.238	7.92	NA	0.12	-184.5	12	
1147	300	46.51	133	11.85	0.238	7.92	NA	0.15	-183.3	13.5	
1152	300	46.54	93.5	11.74	0.237	7.90	NA	0.10	-183.1	15	
1157	300	46.56	59.3	11.74	0.237	7.87	NA	0.11	-182.2	17.5	
1202	300	46.54	42.9	11.89	0.237	7.92	NA	0.12	-184.6	19	
1207	300	46.50	33.6	11.95	0.237	7.94	NA	0.13	-185.5	20.5	
1212	300	46.48	26.2	12.05	0.237	7.92	NA	0.13	-184.1	22	
1217	300	46.49	21.4	11.88	0.237	7.94	NA	0.11	-184.3	23.5	
1222	300	46.52	17.2	12.04	0.231	7.92	NA	0.10	-184.0	25	
Results During Sample Collection:			12.6	11.88	0.237	7.93	NA	0.13	-184.6	31	
			13	12	0.240	7.9	—	0.1	-180		

Sample ID: PLTSB-GW-025 Sample Collection Time: 1248

Sample bottle type: 2x 125mL HDPE Analysis/Method: PFCs (LC/MS/MS)

Preservative: 4°C

Water Quality (circle one): Clear Cloudy (Turbid) Other _____

COMMENTS: original pump (mega typhoon pro) did not purge water out of well. Replaced it with a Geo Sub pump.

Total gallons purged. ~8.0gal

QAQC'd by: [signature] Date: 10/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FTCOSP
Date: 10/3/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-22-008

Measurements

Well Total Depth: 92.30 ft below TOC
Initial Water Level: 46.86 ft below TOC
Final Water Level: 46.53 ft below TOC
Calculated Well Volume: ~~~8.0~~ 7.4 (D7) Gallons
Well Diameter: 2 inches

Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Geo Sub
Flow rate (incl. units): 300mL/mi

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped (D3)	Comments
1227	300	46.52	15.4	11.86	0.237	7.98	NA	0.12	-185.0	26.5	
1232	300	46.54	13.8	11.80	0.237	7.93	NA	0.13	-183.7	28	
1237	300	46.55	12.8	11.84	0.237	7.92	NA	0.14	-183.8	29.5	
1242	300	46.53	12.6	11.88	0.237	7.93	NA	0.13	-184.6	31	
1248	Collect samples										
Results During Sample Collection:			12.6	11.88	0.237	7.93	NA	0.13	-184.6	31	
			13	12	0.23U	7.9	—	0.1	-18U		

Sample ID: PLTSB-GW-025
Sample Collection Time: 1248
Sample bottle type: 2x 125mL HDPE
Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): Clear Cloudy (Turbid) Other

COMMENTS:

Total gallons purged: ~8.0 gal.

QAQC'd by: [signature] Date: 12/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P (MW)
Date: 10/3/14
Sample Technician: Danielle Lerner
Location ID (Well ID): MW-22-008

Measurements

Well Total Depth: _____ ft below TOC
Initial Water Level: _____ ft below TOC
Final Water Level: _____ ft below TOC
Calculated Well Volume: _____ Gallons
Well Diameter: _____ inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): _____ Flow rate (incl. units): _____

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results During Sample Collection:											

Sample ID: PLTSB-FT002P-BLK09 Sample Collection Time: 1300
Sample bottle type: 2x 125mL HDPE Analysis/Method: PFCs (LC/MS/MS)
Preservative: 4°C
Water Quality (circle one): Clear Cloudy Turbid Other _____

COMMENTS: Equipment Blank

QAQC'd by: _____ Date: 10/5/14

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177
AMEC Proj No: 775290177.0010.300B
Installation/Site: Plattsburgh/ ~~FT030P~~ FT002P
Date: 10/8/14
Sample Technician: M. Lounsbury
Location ID (Well ID): MW-02-008

Measurements

Well Total Depth: 48.5 ft below TOC
Initial Water Level: 41.55 ft below TOC
Final Water Level: 42.06 ft below TOC
Calculated Well Volume: 1.1 Gallons
Well Diameter: 2 inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Sampling Method (pump type): Geo Sub
Flow rate (incl. units): 350 ml/min

Time	Flow Rate (ml/min)	Depth to Water (ft, TOC)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Salinity (%)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
944	500	42.00	17.00	11.39	1.156	6.44	NA	20.72	-171.1	2000	
949	350	41.90	20.8	12.54	1.106	6.36	NA	0.41	-191.1	4000	
959	350	41.87	23.9	12.89	1.072	6.40	NA	0.36	-204.4	8500	
1002	350	41.83	18.5	13.18	1.052	6.42	NA	0.34	-205.4	7000	
1007	350	41.83	~~21.0~~	13.36	1.031	6.42	NA	0.42	-202.4	8500	Tub. 19.1
1014	350	41.83	18.2	13.68	1.010	6.44	NA	0.42	-206.8	10000	
Results During Sample Collection:			18.2	14	1.010	6.4	NA	0.4	-207	1000.0	

Sample ID: PLTSB-GW-0010
Sample Collection Time: 1020
Sample bottle type: HDPE
Analysis/Method: PFC's (LC/ms/ms)
Preservative: 4°C
Water Quality (circle one): Clear Cloudy Turbid Other Yellow

COMMENTS:
Fuel-/Chemical odor
mL Pm x 0.00026 x min purged = Gallons purged
350 x .0026 x 30 = 273 Gallons purged

QAQC'd by: [signature] Date: 12/5/14

APPENDIX C-5

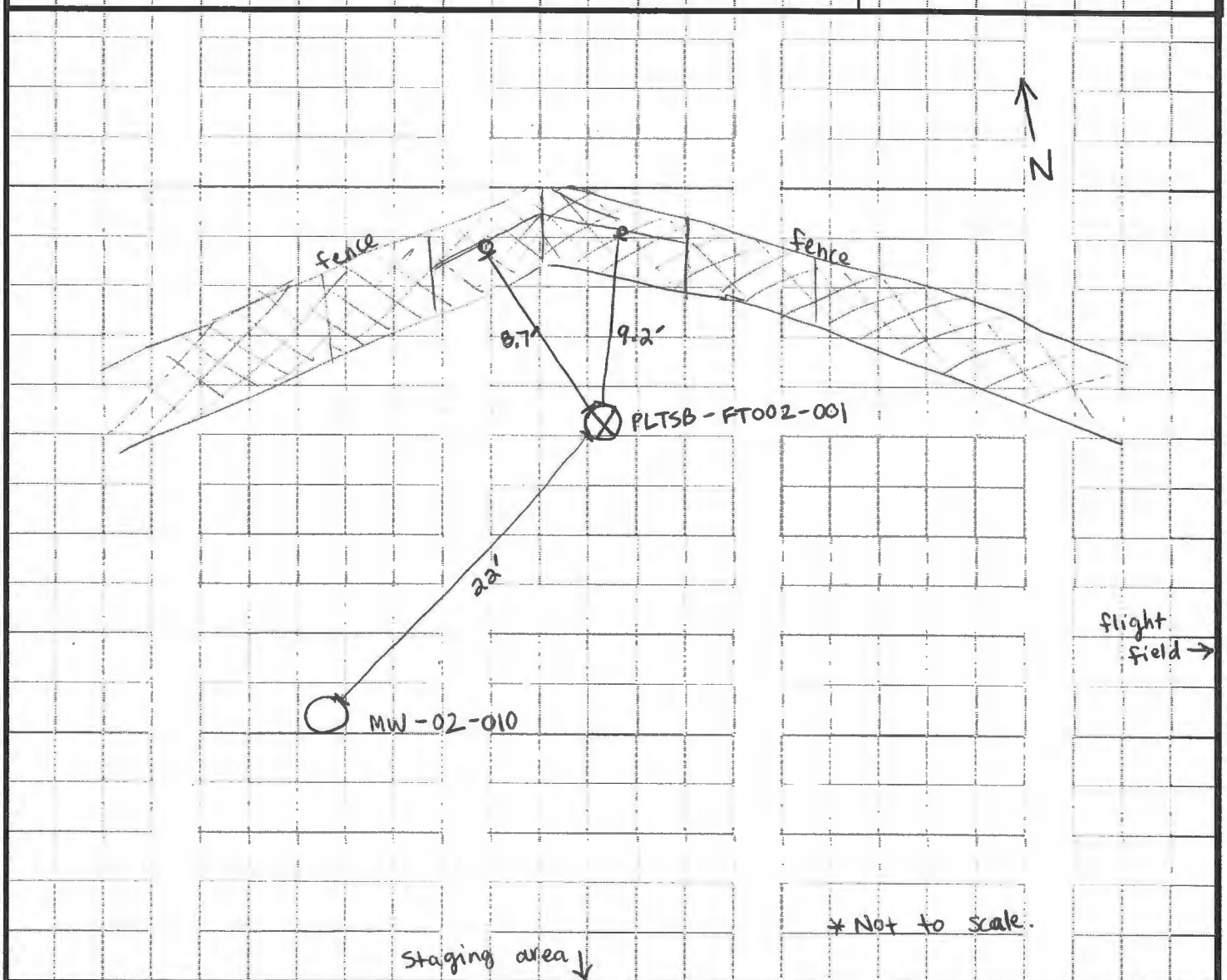
DRILLING LOGS

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Drilling Log (Page 1)
Rev. 1. Date: 07/21/2014

DRILLING LOG

LOCATION ID: PLTSB-FT002-001 (MW-02-010)	INSTALLATION/SITE: Plattsburgh
DRILL SUBCONTRACTOR: New Hampshire Boring	SHEET 1 of 4 (PA)
PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177 775290177.0010.300B	DATE STARTED: 10/6/14
	DATE COMPLETED: 10/6/14
NAME OF DRILLER(S): Carl Downing, Mike Misiaszek	SURFACE ELEVATION: N/A
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 6610	SURFACE ELEVATION: N/A
	TOTAL DEPTH OF BOREHOLE: 40'
	DEPTH OF GROUNDWATER ENCOUNTERED: ~32'
	OVERBURDEN THICKNESS: NA
	DEPTH DRILLED INTO ROCK: None
DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	OTHER WATER LEVEL MEASUREMENTS (SPECIFY): None
DISPOSITION OF BORE HOLE: backfilled	BACKFILLED: soil cuttings; MONITORING WELL: NA; OTHER (SPECIFY): soil boring
LOCATION SKETCH/COMMENTS: GPS located	SCALE: N/A



Name/Signature: Danielle Lerner / [signature] Date: 10/6/14

QAQC'd by: [signature] Date: 12/9/14

amec

DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-001

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET: 2 of SHEETS: 3 4

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	0-1'	light brown sand with little silt, loose, damp, trace roots, trace cobble, poorly graded, 10YR4/2.	∅	~~NA~~ DJ hand auger	(0-1') PLTSB-SO-00~~1~~	~~SM~~ DJ fill	Surface soil sample
	3-5'	same as above 10YR 5/6	∅	hand auger	(3-5') PLTSB-SO-002	~~SM~~ DJ	
	5-10'	5-6.2' tan sand, some silt, loose, damp, poorly graded 6.2-8.9' light brown sand, some silt, some cobble, loose, damp, poorly graded 10YR 5/6	∅	5-10'	(8-10') PLTSB-SO-003	SM	Rec: 3.9'/5'
	10-15'	yellowish brown sand, little silt, loose, damp, poorly graded 10YR 5/6	∅	10-15'	(13-15') PLTSB-SO-004	SM	Rec: 5/5'

NAME/SIGNATURE: Danielle Lerner / DJ — DATE: 10/16/14

QAQC'd by: [illegible] — DATE: 12/9/14

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Rev. 1, Date: 07/21/2014

amec DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-001

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET: 3-2 of SHEETS: 3-4

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	15-20'	15-15.8' gray-brown silty sand, poorly graded, damp with a moist layer from 15.5-15.8', loose 15.8-19.5' brown silty sand, poorly graded, damp, loose 10YR 5/4	Ø	15-20'	(18-20') PLTSB-SO-005	SM	Rec: 4.5/5'
	20-25'	silty ~~silty~~ brown sand, poorly graded, moist, loose 10YR 5/4	Ø	20-25'	(23-25') PLTSB-SO-006	SM	Rec: 4.5/5'
	25-30'	yellowish brown silty sand, poorly graded, moist, loose 10YR 5/4	Ø	25-30'	(28-30') PLTSB-SO-007	SM	Rec: 4/5'

NAME/SIGNATURE: Danielle Lerner / [signature] DATE: 10/6/14

QAQC'd by: [signature] DATE: 12/9/14

Drilling Log (Page 2)
Rev. 1, Date: 07/21/2014

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DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002 (FT001)

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 4 ~~3~~ of ~~3~~ 4 (DP)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
		30-32': brown sandy silty ~~silty sand~~ (DP), coarse-grained, poorly graded, moist, loose.				SM	
	30-35'	32-32.5': layer of silty ~~clayey~~ (DP) sand mixture, fine-grained, poorly graded, wet to moist, ~~loose~~ (DP) mdm dense	0	30-35'	(33-35') PLTSB-SO-008	~~SC~~ (DP) SM	Rec: 4/4.5' orange streaks present (water indicator)
		32.5-34': same as 10YR 5/8 30-32'.				SM	
	35-40'	yellowish-brown ~~sand~~ (DP) silty sand, coarse grained, poorly sorted, wet, mdm dense 10 YR 5/6	0	35-40'	(38-40') PLTSB-SO-009	SM	Rec: 4.5/5'
			BOB	40'			

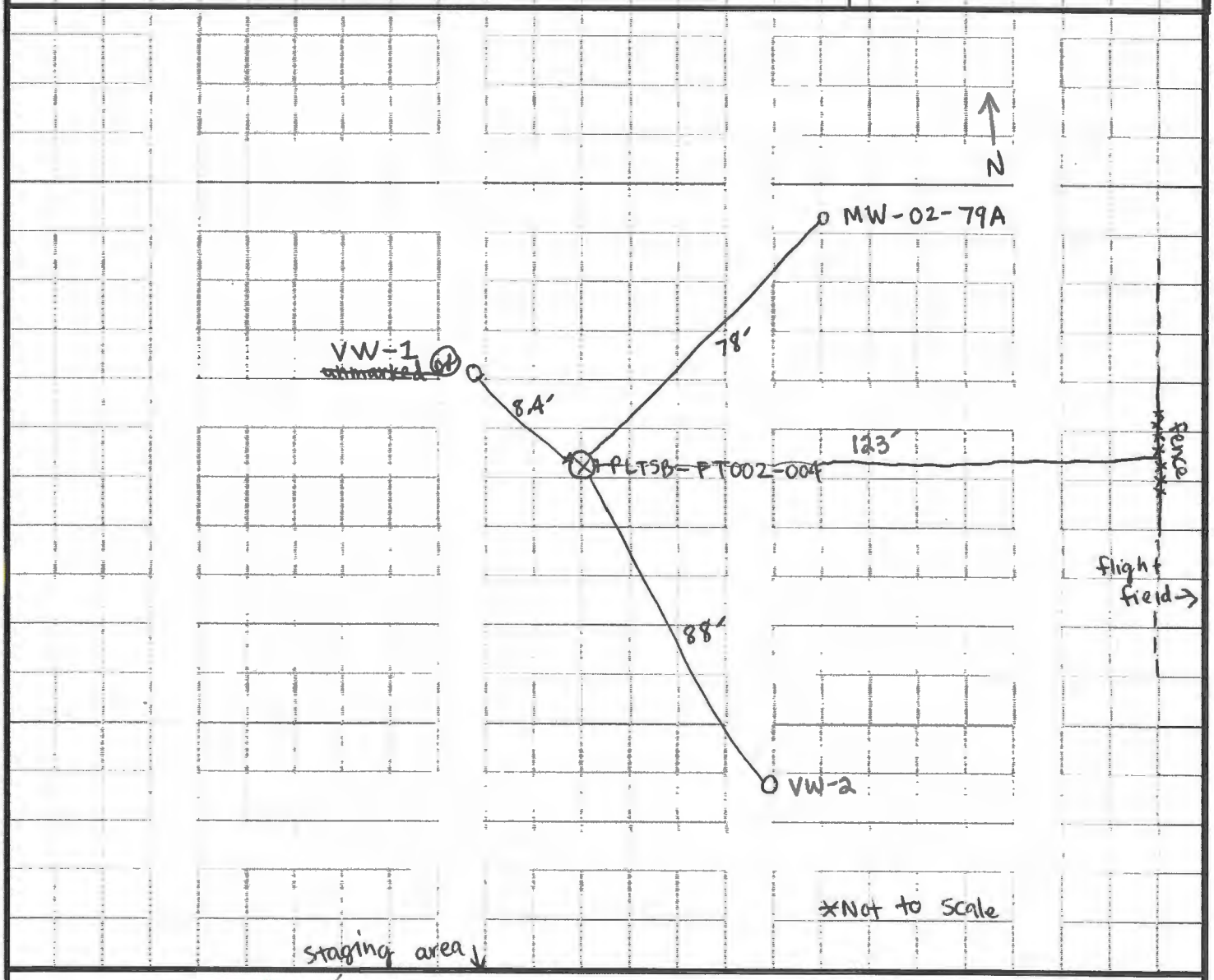
NAME/SIGNATURE: Danielle Lerner / Danielle L — DATE: 10/6/14

QAQC'd by: — DATE: 12/5/14

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Rev. 1. Date: 07/21/2014

DRILLING LOG

LOCATION ID: PLTSB-PT002-004	INSTALLATION/SITE: Plattsburgh
DRILL SUBCONTRACTOR: New Hampshire Boring	SHEET: 1 of 1 SHEETS: 4 (02)
PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177 775290177.0010.300B	DATE STARTED: 10/7/14 — DATE COMPLETED: 10/7/14
NAME OF DRILLER(S): Carl Downing, Mike Misiaszek	SURFACE ELEVATION: NA
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 6610	SURFACE ELEVATION: NA
	TOTAL DEPTH OF BOREHOLE: 40' — DEPTH OF GROUNDWATER ENCOUNTERED: 34.2'
	OVERBURDEN THICKNESS: NA — DEPTH DRILLED INTO ROCK: None
DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	OTHER WATER LEVEL MEASUREMENTS (SPECIFY): none
DISPOSITION OF BORE HOLE: backfilled — BACKFILLED: soil cuttings — MONITORING WELL: NA	OTHER (SPECIFY): Soil boring
LOCATION SKETCH/COMMENTS: GPS located	SCALE: NA



Name/Signature: D. Kerner / [signature] Date: 10/7/14

QAQC'd by: [signature] Date: 12/8/14

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Rev. 1, Date: 07/21/2014

amec DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-0049

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 2 of 3 4 SHEETS

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	0-1'	brown silty sand, damp, loose, fine-grained	0	hand auger (0-1')	(0-1') PLTSB-SO-031	~~SM~~ DJ fill	surface sample
	1-5'	pale brown silty sand, fine to coarse grained, damp, loose 10 YR 6/3 poorly graded	0	hand auger	(1-5') PLTSB-SO-032 PLTSB-SO-033 (Field duplicate)	~~SM~~ DJ	cobble layers ~1-4'
5'							
	5-10'	~~5-5.5'~~: yellowish brown silty sand w/ some black organics, damp, loose, fine-grained. 10 YR 5/8 5.5-10': yellowish brown silty sand, coarse to fine grained, damp, loose 10 YR 5/8 poorly graded	0	5-10'	(8-10') PLTSB-SO-034	SM	Rec: 4.5/5'
10'							
	10-15'	yellowish brown sand w/ some silt, coarse-grained, damp, loose 10 YR 5/6 poorly graded	0	10-15'	(13-15') PLTSB-SO-035	SP	Rec: 4.5/5'
15'							

NAME/SIGNATURE: D. Lerner / DL — DATE: 10/7/14

QAQC'd by: [signature] — DATE: 12/5/14

DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-004

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 3 of 4 SHEETS

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	15-20'	15-19.5': yellowish brown silty sand, coarse-grained, damp, loose 10YR 5/6 19.5-20': dark yellowish brown, silty sand, fine to coarse grained, damp, loose to mdm dense 10YR 4/6	0	15-20'	(18-20') PLTSB-SO-036	SM SM	Rec: 4.3/5' orange streaks present ~18.2-20'
20'	20-25'	brownish yellow silty sand, fine-coarse grained, damp, loose w/ small wet, mdm dense, yellowish brown layers at 21', 21.3', 22', 22.5', 22.8', 23.2' and 23.5'. These layers are about 0.1' in thickness. 10YR6/6 10YR5/6 (layers)	0	20-25'	(23-25') PLTSB-SO-037	SM	Rec: 4.2/5'
25'	25-30'	pale brown silty sands, fine to coarse grained, damp, mdm dense, poorly graded 10YR6/3	0 3.7 (29-30')	25-30'	(28-30') PLTSB-SO-038	SM	Rec: 4.5/5' Fuel odor present
30'							

NAME/SIGNATURE: D. Lerner

DATE: 10/7/14

QAQC'd by:

DATE: 10/8/14

amec DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-004

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 4 of 4 (DP)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	30-35'	30-32.3': yellowish brown, fine-coarse grained silty sand, wet, loose. 10YR 5/6 32.3-32.6': same as above but brownish yellow. 10YR 6/8 32.6-35': same as above but grayish brown 10YR 5/2 poorly graded	0	30-35'	(33-35') PLTSB-SO-039	SM	Rec: 4.2/5' 34.2' water table
35'	35-40'	36.5-36.9': brown silty sand, fine grained, wet, mdm dense 10YR 4/3 36.9-38.4': brown silty sand, fine grained, saturated, mdm dense 10YR 5/3 38.4-40': dark grayish brown, silty sand, wet, mdm dense 10YR 4/2 poorly graded	0	35-40'	(38-40') PLTSB-SO-040	SM	Rec: 3.5/5' Faint Fuel odor at very bottom
40'				BOB - 40'			

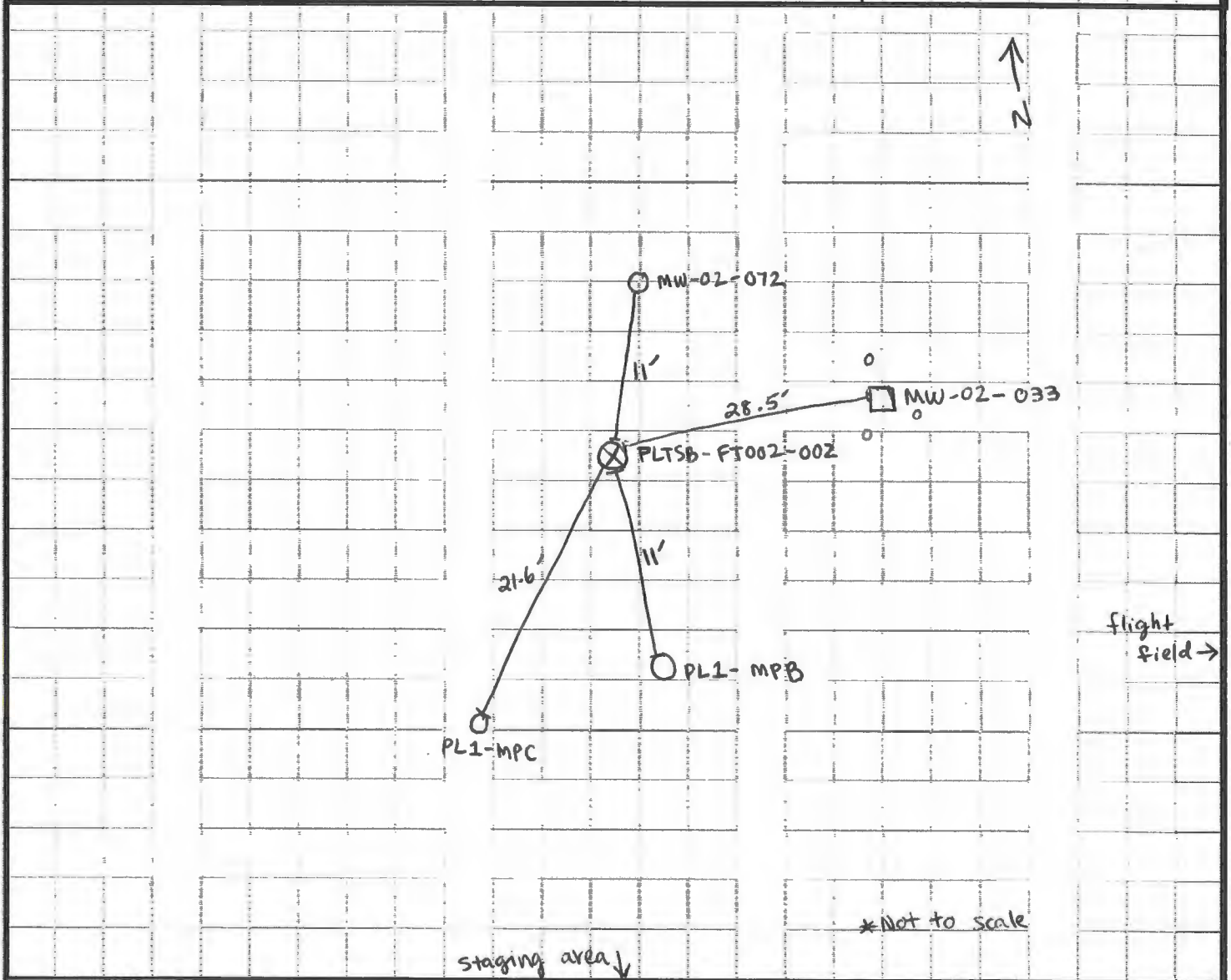
NAME/SIGNATURE: D. Lerner / DL — DATE: 10/7/14

QAQC'd by: Michael Long — DATE: 12/5/14

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Rev. 1. Date: 07/21/2014

DRILLING LOG

LOCATION ID: PLTSB-FT002-002 (MW-02-072)	INSTALLATION/SITE: Plattsburgh
DRILL SUBCONTRACTOR: New Hampshire Boring	SHEET 1 of 4 (DZ)
PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177 775290177.0010.300B	DATE STARTED: 10/7/14 / DATE COMPLETED: 10/7/14
NAME OF DRILLER(S): Carl Downing, Mike Misiaszek	SURFACE ELEVATION: NA
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 6610	SURFACE ELEVATION: NA
	TOTAL DEPTH OF BOREHOLE: 40' / DEPTH OF GROUNDWATER ENCOUNTERED: 34'
	OVERBURDEN THICKNESS: NA / DEPTH DRILLED INTO ROCK: None
DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	OTHER WATER LEVEL MEASUREMENTS (SPECIFY): None
DISPOSITION OF BORE HOLE: backfilled / BACKFILLED: soil cuttings / MONITORING WELL: NA	OTHER (SPECIFY): soil boring
LOCATION SKETCH/COMMENTS: GPS located	SCALE: N/A



Name/Signature: Danielle Lerner / [signature] Date: 10/7/14

QAQC'd by: [signature] Date: 12/4/14

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Rev. 1, Date: 07/21/2014

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INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P002

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET: 2 of 4

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	0-1'	dark yellowish brown silty sand, poorly graded, damp; loose w/ trace gravel 10YR 3/6	0	hand auger 0-1'	(0-1') PLTSB-SO-010 (PLTSB-SO-011)	fill	surface sample → duplicate sample
	1-5'	same as above 10 YR 3/6		hand auger 1-4'	(3-5') PLTSB-SO-012	~~SM~~ fill	small white plastic-looking found in ~3' soil - gives off slight odor.
5'	5-10'	5-8.5': light yellowish brown, silty sand, poorly graded, damp, loose w/ trace gravel, coarse grained 10YR 6/4 8.5-9.5': same as above but dark yellowish brown 10YR 4/4	0 ~0.4 (@9')	5-10'	(8-10') PLTSB-SO-013	SM	Rec: 4.5/5
10'	10-15'	Brownish yellow sand with some silt, coarse-grained, poorly graded, damp 10YR 6/6	0.4	10-15'	(13-15') PLTSB-SO-014	SP	Rec: 4.5/5
15'							

NAME/SIGNATURE: D. Lerner / [signature] DATE: 10/7/14

QAQC'd by: [signature] DATE: 12/8/14

amec DRILLING LOG (Page 2)

INSTALLATION/SITE	LOCATION ID
Plattsburgh/ FT030P	PLTSB-FT002-0002 (mwL)

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 3 ~~2~~ of ~~3~~ 4 (D1)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	15-20'	15-17.2': yellowish brown coarse grained sand w/ trace silt, poorly graded, damp, loose 10YR 5/6 17.2-20': pale brown fined grained silty sand, poorly graded, damp, mdm dense 10YR 6/2	0.6 @ ~18' otherwise Ø	15-20'	(18-20') PLTSB-SO-015	SP SM	Rec: 4/5'
20'	20-25'	yellowish brown, fine-grained silty sand, poorly graded, damp, loose to mdm dense 10YR 5/4	Ø	20-25'	PLTSB-SO-016	SM	Rec: 4.5/5'
25'	25-30'	light yellowish brown silty sand, poorly graded, damp, loose to mdm dense 25-27', mdm dense to dense 29-30' 10YR 6/4	Ø	25-30'	PLTSB-SO-017	SM	Rec: 4/5' occasional orange streak
30'							

NAME/SIGNATURE: D Lerner / ~~DL~~ — DATE: 10/7/14
QAQC'd by: M. Jones — DATE: 12/5/14

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Rev. 1, Date: 07/21/2014

amec DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002-002 (MW)

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 4 ~~3~~ of ~~3~~ 4 (D2)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	30-35'	light yellowish brown silty sand, poorly graded, damp, loose (mdm dense from 31-31.4'). 10YR 6/4 34-34.5': brown, silty sand, poorly graded, wet, dense 10YR 5/3	0.9	30-35'	(33-35') PLTSB-SO-018	SM	Rec: 4.3/5' Hit water table ~34'
35'	35-40'	Brown silty sand, poorly graded, wet, loose to mdm dense (35-38.8'), dense (38.8-40') 10YR 5/3	1.6	35-40'	(38-40') PLTSB-SO-019 and PLTSB-SO-020 (MS/MSD)	SM	Rec: 3.8/5' fuel odor present
40'			BOB		40'		

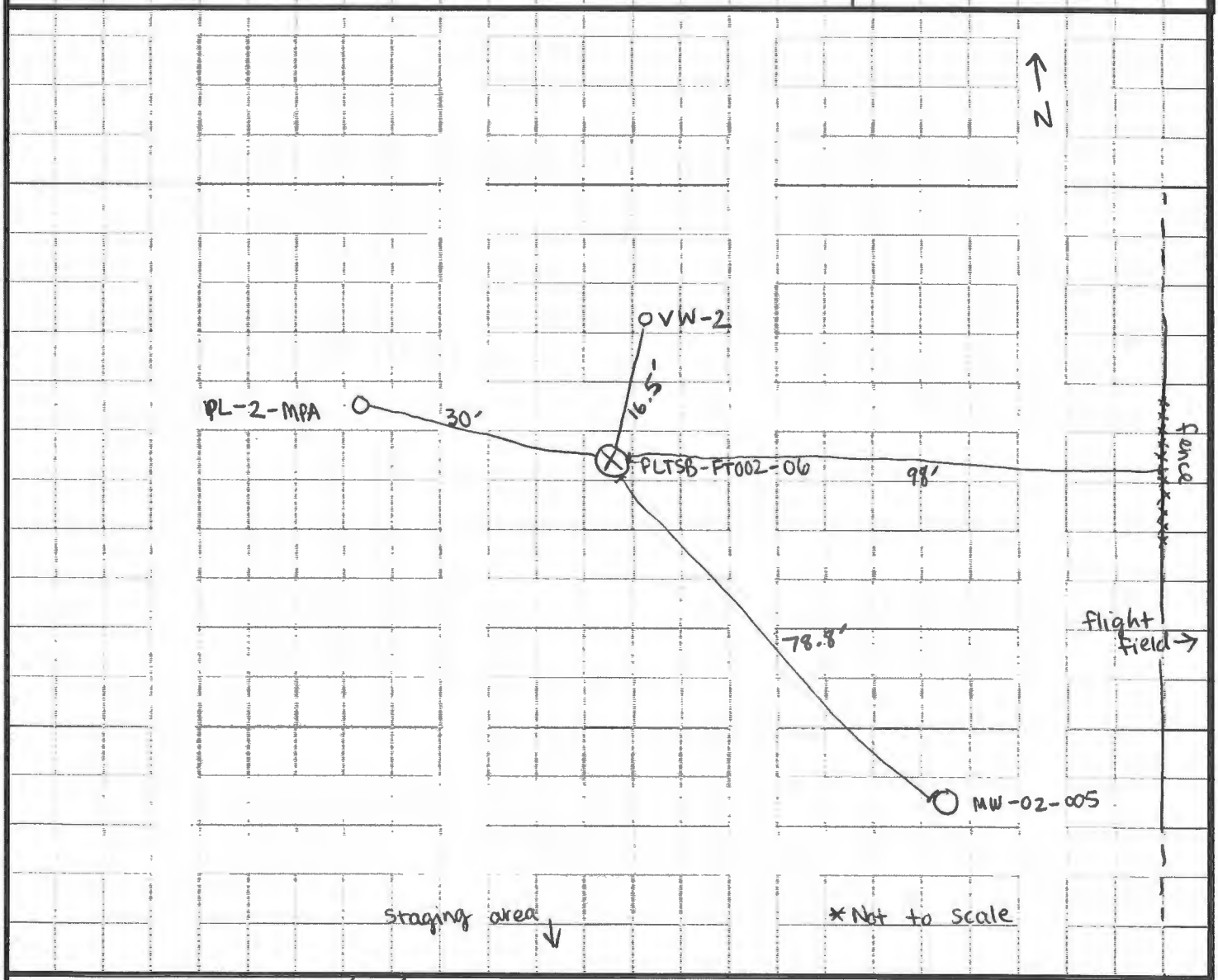
NAME/SIGNATURE: D. Lerner / [signature] DATE: 10/7/14

QAQC'd by: [signature] DATE: 12/19/14

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Rev. 1. Date: 07/21/2014

DRILLING LOG

LOCATION ID: PLTSB-FT002P006 (MW)	INSTALLATION/SITE: Plattsburgh
DRILL SUBCONTRACTOR: New Hampshire Boring	SHEET: 1 of 4 (DP)
PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177 775290177.0010.300B	DATE STARTED: 10/7/14
	DATE COMPLETED: 10/7/14
NAME OF DRILLER(S): Carl Downing, Mike Misiaszek	SURFACE ELEVATION: NA
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 6610	SURFACE ELEVATION: NA
	TOTAL DEPTH OF BOREHOLE: 40'
	DEPTH OF GROUNDWATER ENCOUNTERED: 28.5'
	OVERBURDEN THICKNESS: NA
	DEPTH DRILLED INTO ROCK: none
DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	OTHER WATER LEVEL MEASUREMENTS (SPECIFY): none
DISPOSITION OF BORE HOLE: backfilled	BACKFILLED: soil cuttings
MONITORING WELL: NA	OTHER (SPECIFY): Soil boring
LOCATION SKETCH/COMMENTS: GPS located	SCALE: NA



Name/Signature: D. Lerner / [signature] Date: 10/7/14

QAQC'd by: [signature] Date: 12/5/14

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amec

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P006 (MW16)

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 2 of ~~3~~ 4 (DJ)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	0-1'	Dark yellowish brown silty sands, little gravel, damp, loose 10YR 4/4	Ø	hand auger 0-1'	(0-1') PLTSB-SO-052	~~SM~~ (DJ) fill	surface soil
	1-4'	Dark yellowish brown silty sands, little gravel, damp, loose 10YR 4/4 Both coarse-grained, poorly graded	Ø	hand auger 1-5'	(3-5') PLTSB-SO-053	~~SM~~ (DJ)	
5'	5-10'	yellowish brow silty sand, coarse-grained, some gravel, damp, loose, poorly graded 10YR 5/4 some organics from 6.2-6.4'	Ø	5-10'	(8-10') PLTSB-SO-054 PLTSB-SO-055 (field duplicate)	SM	Rec: 3.8/5'
10'	10-15'	yellowish brown sand w/ some silt, coarse-grained, poorly graded, damp, loose 10YR 5/4	Ø	10-15'	(13-15') PLTSB-SO-056	SM	Rec: 4.5/5'
15'							

NAME/SIGNATURE: D. Lerner / [signature]
DATE: 10/7/14

QAQC'd by: [signature]
DATE: 12/5/14

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Rev. 1, Date: 07/21/2014

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INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002-006 (MW)

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET: 3 ~~1~~ of SHEETS: ~~3~~ 4 (BB)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	15-20'	light yellowish brown silty sand, coarse-grained, poorly sorted, moist, loose, trace gravel 10 YR 6/4	0	15-20'	(18-20') PLTSB-SO-057	SM ~~SW~~ ~~fi~~ (BB)	Rec: 4.2/5'
20'	20-25'	20-24': yellowish brown coarse-grained silty sand, poorly sorted, moist, loose 10 YR 5/4 24-25': same as above but fine to coarse grained	0	20-25'	(23-25') PLTSB-SO-058	SM	Rec: 3.6/5'
25'	25-30'	25-28.5': yellowish brown coarse-grained silty sand, poorly sorted, moist, loose 10 YR 5/4 28.5-30': light yellowish brown, fine grained silty sand, poorly sorted, wet, mdm dense 10 YR 6/4	0	25-30'	(28-30') PLTSB-SO-059	SM	Rec: 3.9/5' water table: 28.5'
30'							

NAME/SIGNATURE: D. Lerner / DL — DATE: 10/7/14

QAQC'd by: Mitchell F. Lang — DATE: 12/5/14

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INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB - FT002 - 006

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 4 ~~3~~ of ~~3~~ 4

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	30'-35'	30.5-30.9': strong brown, silty sands, fine-coarse grained, poorly graded, wet, mdm dense 7.5YR 5/6 30.9-34.7; dark yellowish brown, silty sands, fine grained, poorly graded, wet, dense. 10YR 4/4 34.7-35': same as above but coarse grained	Ø	30-35'	PLTSB-30-060	SM	Rec: 4/5'
35'	35'-40'	35-38.1' dark yellowish brown silty sand, saturated from 35-36.5', wet from 36.5'-37.2', saturated from 37.2'-38', wet from 38'-40'. Poorly graded, mdm dense 10YR 4/4 38.1-40' gray silty sand, fine-grained, poorly graded, wet, mdm dense 10 YR 5/1	Ø	35-40'	PLTSB-30-061	SM	Rec: 4.5/5'
40'				BOB - 40'			

NAME/SIGNATURE: D. Lerner / [signature]

DATE: 10/7/14

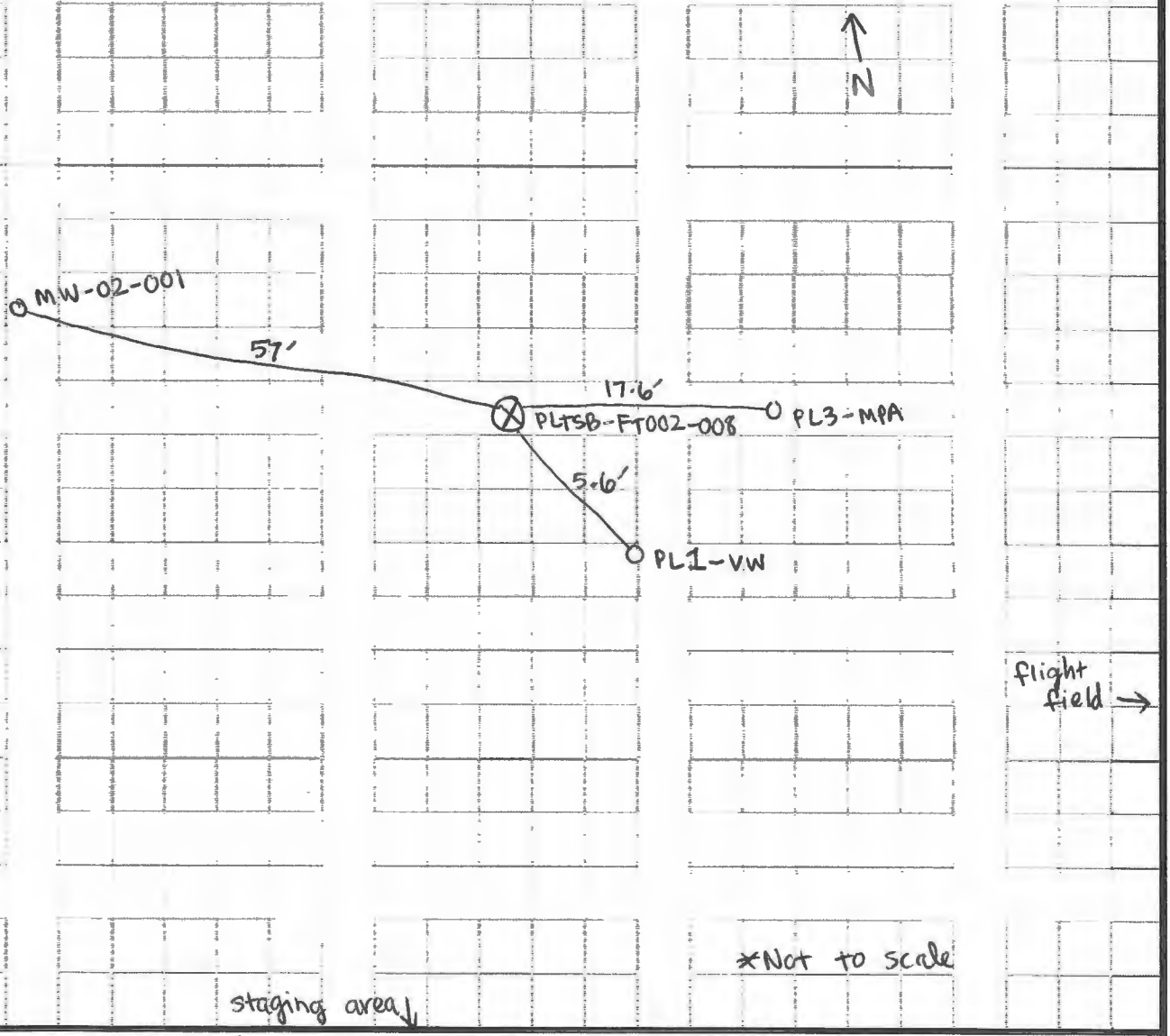
QAQC'd by: [signature]

DATE: 12/5/14

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Rev. 1. Date: 07/21/2014

DRILLING LOG

LOCATION ID: PLTSB-FT002-008	INSTALLATION/SITE: Plattsburgh
DRILL SUBCONTRACTOR: New Hampshire Boring	SHEET: 1 of 4 (DS)
PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177 775290177.0010.300B	DATE STARTED: 10/7/14
	DATE COMPLETED: 10/8/14
NAME OF DRILLER(S): Carl Downing, Mike Misiaszek	SURFACE ELEVATION: NA
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 6610	SURFACE ELEVATION: NA
	TOTAL DEPTH OF BOREHOLE: 40'
	DEPTH OF GROUNDWATER ENCOUNTERED: ~32'
	OVERBURDEN THICKNESS: NA
	DEPTH DRILLED INTO ROCK: none
DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	OTHER WATER LEVEL MEASUREMENTS (SPECIFY): none
DISPOSITION OF BORE HOLE: backfilled	BACKFILLED: soil cuttings; MONITORING WELL: N/A; OTHER (SPECIFY): soil boring
LOCATION SKETCH/COMMENTS: GPS located	SCALE: NA



Name/Signature: D. Lerner / [signature] Date: 10/7/14

QAQC'd by: [signature] Date: 12/5/14

amec DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-008

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 2 of 3 4

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	0-1	dark yellowish brown silty sands w/ some gravel, coarse grained, poorly ~~sorted~~ graded, damp, loose (DB) 10YR 4/4	0	hand auger 0-1'	(0-1') PLTSB-SO-003 ~~-003~~ (DB)	(DB) ~~SM~~ fill	surface soil
	1-5'	light yellowish brown silty sands w/ some gravel, coarse-grained, poorly sorted, damp, loose 10YR 6/4	0	hand auger 1-5'	(3-5') PLTSB-SO-004	~~SM~~ (DB)	
5'							
	5-10'	Brownish yellow silty sands, trace gravel, coarse-grained, poorly ~~graded~~ sorted (DB) damp, loose 10YR 6/6	11	5-10'	(8-10') PLTSB-SO-075 PLTSB-SO-076 Field Duplicate	SM	Rec: 4.2/5'
10'							
	10-15'	light yellowish brown silty sands, coarse-grained w/ a few fine-grained layers at 11.4', 14.1', and 14.5-15', Poorly graded, damp, loose 10YR 6/4	10.3	10-15'	(13-15') PLTSB-SO-077 ~~-076~~ (DB)	SM	Rec: 4.6/5'
15'							

NAME/SIGNATURE: D. Lerner /DB

DATE: 10/7/14

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DATE: 12/5/14

(MSL)

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INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P008

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 3 ~~2~~ of ~~3~~ 4 (03)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	15-20'	yellowish brown silty sand, coarse grained, ~~graded~~ poorly ~~sorted~~, damp, loose (H) 10YR 5/8	4.7	15-20'	(18-20') PLTSB-SO-078	SM	Rec: 4/5'
20'	20-25'	Dark yellowish brown silty sand, poorly graded, damp, loose ~4' switches from coarse-grained to fine-coarse grained 10YR 4/4	1.7	20-25'	(23-25') PLTSB-SO-079	SM	Rec: 4.6/5'
25'	25-30'	25-27.6': yellowish brown, coarse grained silty sand, poorly sorted, damp, loose 27.6-28.3': same as above but fine-grained, mdm dense w/ layers of gray and orange (see photos). 28.3-30': same as above but coarse-grained, loose w/ orange layer from 28.9-30'	0.1'	25-30'	PLTSB-SO-080	SM	Rec: 4.3/5'
30'							

NAME/SIGNATURE: D. Lerner / [signature] DATE: 10/7/14

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INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-008 (MW)

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 4 ~~3~~ of ~~3~~ 4 (02)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	30–35′	30–32.8′: yellowish brown silty sand, fine to coarse grained, poorly graded, ~~wet~~, saturated (02) loose. 32.8–33.4′; same as above but fine-grained, dense. 33.4–35′; same as above but coarse-grained and loose 10YR 5/4	13.3	30–35′	(33–35′) PLTSB-SO-081	SM	Rec: 3.8/5′ water table: ~32′
35′	35–40′	35–37.2′: yellowish brown silty sand, fine to coarse grained, poorly graded, wet, loose. Has an orange streak at 37′. 37.2–37.9′: Same ~~Base~~ as above but mdm dense, fine-grained, no orange streaks. 37.9–40′: same as above but coarse-grained, loose. orange streak at 38.1′ and 38.7′ 10YR 5/6	9.0	35–40′	(38–40′) PLTSB-SO-082	SM	Rec: 4.2/5′
40′			BOB = 40′				

NAME/SIGNATURE: D. Lerner / [signature]

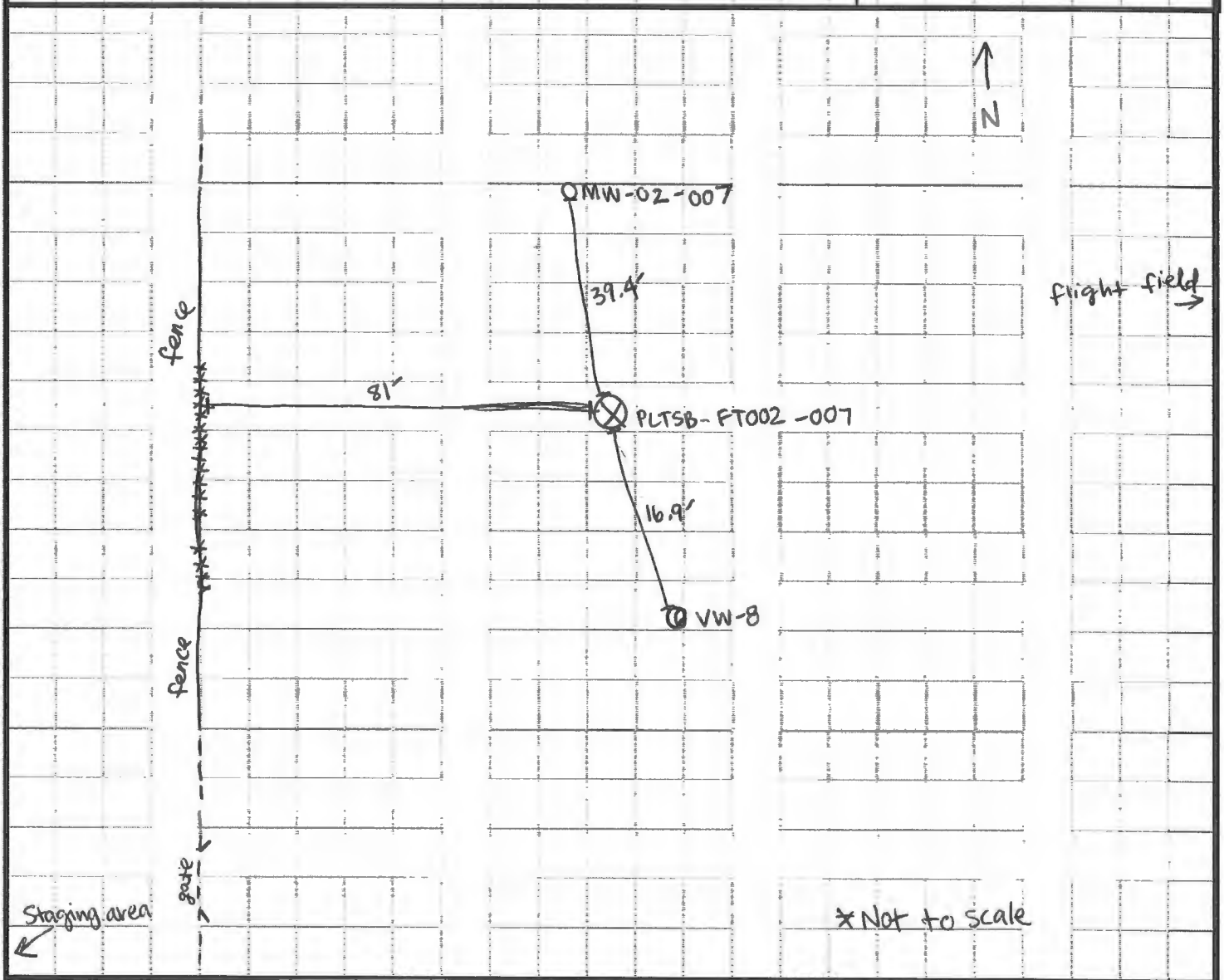
DATE: 10/7/14

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DATE: 10/15/14

DRILLING LOG

LOCATION ID: PLTSB-FT002-007 (MW)	INSTALLATION/SITE: Plattsburgh
DRILL SUBCONTRACTOR: New Hampshire Boring	SHEET: 1 of 1+3 (D2)
PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177 775290177.0010.300B	DATE STARTED: 10/8/14
	DATE COMPLETED: 10/8/14
NAME OF DRILLER(S): Carl Downing, Mike Misiaszek	SURFACE ELEVATION: NA
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 6610	SURFACE ELEVATION: NA
	TOTAL DEPTH OF BOREHOLE: (D2) ~~40'~~ 30'
	DEPTH OF GROUNDWATER ENCOUNTERED: ~29'
	OVERBURDEN THICKNESS: NA
	DEPTH DRILLED INTO ROCK: none
DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	OTHER WATER LEVEL MEASUREMENTS (SPECIFY): None
DISPOSITION OF BORE HOLE: backfilled	BACKFILLED: soil cuttings
MONITORING WELL: N/A	OTHER (SPECIFY): soil boring
LOCATION SKETCH/COMMENTS: GPS located	SCALE: NA



Name/Signature: D. Lerner / [signature] Date: 10/8/14

QAQC'd by: [signature] Date: 12/5/14

Drilling Log (Page 2)
Rev. 1, Date: 07/21/2014

DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-008 (007)

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 2 of 3 (2)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	0-1'	Dark brown silty sand, coarse-grained, damp, loose, poorly graded, some gravel 10YR 3/3	∅	hand auger (0-1')	(0-1') PLTSB-SO-063	~~SM~~ (DP) fill	surface soil
	1-5'	yellowish brown, silty sand, coarse grained, loose, damp, poorly graded, some gravel 10YR 5/8	∅	hand auger (1-5')	PLTSB-SO-064 (3-5')	~~SM~~ (DP)	
5'	5-10'	5-5.8': Dark yellowish brown, silty sand w/ some gravel, coarse-grained, poorly graded, damp, loose 10YR 4/4 5.8-10: same as above but brownish yellow w/ no gravel 10YR 6/6	15.9 (closer to 10')	5-10'	(8-10') PLTSB-SO-065 (8-10') PLTSB-SO-066 Field Duplicate	SM	Rec: 4.4/5'
10'	10-15'	pale brown silty sand, coarse-grained, poorly graded, damp, loose. 11.8-12.1: same as above but mdm dense and moist 10YR 6/4	40.2 (closer to bottom 15')	10-15'	(13-15') PLTSB-SO-067	SM	Rec: 4.4/5'
15'							

NAME/SIGNATURE: D. Lerner

DATE: 10/8/14

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DATE: 12/15/14

amec DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002-008

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 3 of 3

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	15-20'	light yellowish brown sand w/ some silt, poorly graded, damp, loose, coarse-grained 10YR 6/4	35.8 (towards 15') 24.6 (towards 20')	15-20'	(18-20') PLTSB-SO-068	SM	Rec: 4.8/5'
20'	20-25'	yellowish brown, silty sand, poorly graded, damp, loose, coarse-grained w/ trace gravel 10YR 5/4 21-21.4': same as above but mdm dense, fine to coarse grained. 22.1-22.5': same as 21-21.4'	60.9	20-25'	(23-25') PLTSB-SO-069	SM	Rec: 4.7/5'
25'	25-30	yellowish brown from 25-29.1'; silty sand; fine to coarse-grained, poorly graded, ~~wet~~, loose to mdm dense 26.1-26.4', 28.1-28.4' dense. 10YR 5/4 29.1-30' dark gray fine grained silty sand, poorly graded, saturated, mdm dense 10YR ~~5/4~~ 4/1	3.3 (towards 25') 0 (towards 30')	25-30	(28-30') PLTSB-SO-070 (28-30') PLTSB-SO-071 Field Duplicate	SM	orange streak at 26.9' Rec: 4.3/5' water table at ~ 29' Strong Fuel odor
30'			BOB = 30'				

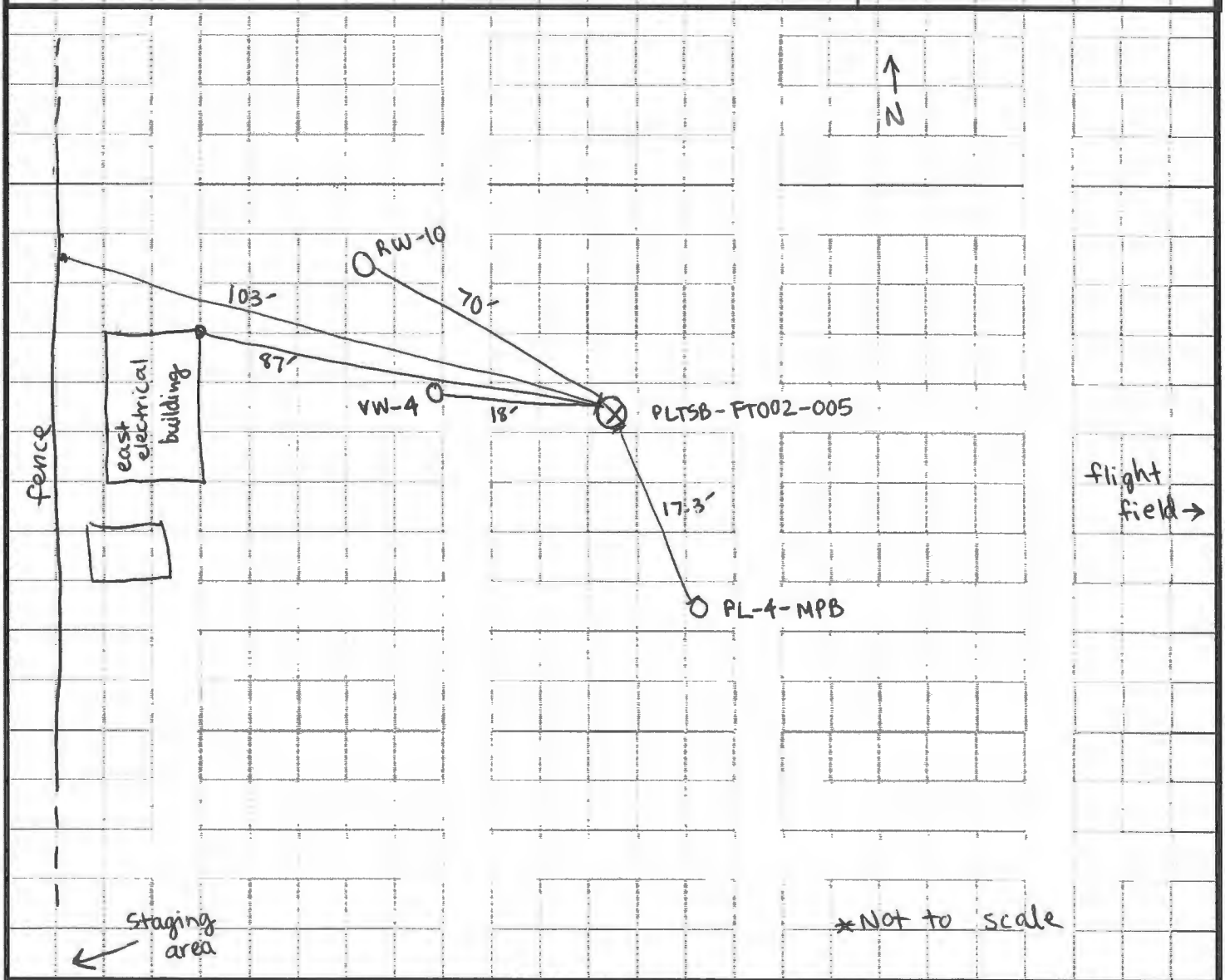
NAME/SIGNATURE: D. Lemer DATE: 10/8/14

QAQC'd by: DATE: 10/5/14

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Rev. 1. Date: 07/21/2014

DRILLING LOG

LOCATION ID: PLTSB-FT002-005 (MSL)	INSTALLATION/SITE: Plattsburgh
DRILL SUBCONTRACTOR: New Hampshire Boring	SHEET: 1 of SHEETS: +3 (DP)
PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177 775290177.0010.300B	DATE STARTED: 10/8/14 / DATE COMPLETED: 10/8/14
NAME OF DRILLER(S): Carl Downing, Mike Misiaszek	SURFACE ELEVATION: NA
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 6610	SURFACE ELEVATION: NA
	TOTAL DEPTH OF BOREHOLE: 30' / DEPTH OF GROUNDWATER ENCOUNTERED: ~28'
	OVERBURDEN THICKNESS: N/A / DEPTH DRILLED INTO ROCK: N/A
DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	OTHER WATER LEVEL MEASUREMENTS (SPECIFY): None
DISPOSITION OF BORE HOLE: backfilled / BACKFILLED: soil cuttings / MONITORING WELL: N/A	OTHER (SPECIFY): Soil Borings
LOCATION SKETCH/COMMENTS: GPS located	SCALE: NA



Name/Signature: D. Lerner / [signature] Date: 10/8/14

QAQC'd by: [signature] Date: 12/5/14

DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-005

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 1 of 2-3

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	0-1'	Dark yellowish brown silty sand, dry to damp, poorly graded, loose fine to coarse-grained. Roots and some gravel. 10YR 4/4	0	Hand auger 0-1'	(0-1') PLTSB-SO-042	~~SM~~ fill	surface soil
	1-5'	Dark yellowish brown silty sand, damp, poorly graded, loose, fine to coarse-grained, some gravel 10YR 3/6		Hand Auger 1-5'	(3-5') PLTSB-SO-043 (3-5') PLTSB-SO-044 Field Duplicate	SM fill	fill + organics; black tar-like spongy material present
5'	5-10'	6.6-7.1': dark yellowish brown silty sand, fine to coarse grained, poorly graded, loose, damp 10YR 3/4 7.1-7.6': same as above but yellowish brown. 10YR 5/6 7.6'-8.5': same as above but brown 10YR 4/3 8.5-10': same as above but black w/ metal fragments N 2.5/2.5	>90.0	5-10'	(8-10') PLTSB-SO-045	~~SM~~ fill	Rec: 3.6/5'
10'	10-15'	very dark grayish brown silty sand, fine grained, moist, poorly graded, loose to mdm dense (10-11.3') 10YR 3/2 11.3-15: same as above but yellowish brown, ~~silty~~ sand, ~~fine~~ to coarse grained w/ small layers of very dark grayish silty sand at 12.1', 12.2', 12.3', 12.4-12.6', 12.7-13'. 10YR 5/4	211 (closer to ~10') ~50 (closer to 15')	10-15'	(13-15') PLTSB-SO-046	SM	Rec: 4.6/5
15'							

NAME/SIGNATURE: D. Lerner

DATE: 10/8/14

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DATE: 12/15/14

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INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P-005

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 2 of ~~2~~ 3 (D2)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
20'	15-20'	16-17' yellowish brown, silty sand, fine to coarse grained, moist, poorly graded, loose 10YR 5/4 17-17.7': very dark grayish brown w/ black spotting around 17.1', same as above but dense and fine grained 10YR 3/2 17.7-20': same as 16-17'. 10YR 5/4	29.7 (towards 15') 2.7 (towards 20')	15-20'	(18-20') PLTSB-SO-047	SM	Rec: 4.0/5'
25'	20-25'	21.6-23.2: brown silty sand, fine-coarse grained, loose, poorly graded, wet 10YR 5/3 23.2-24.1: same as above but dark grayish brown, dense 10YR 4/2 24.1-25': same as 21.6-23.2' 10YR 5/3	Ø	20-25'	(23-25') PLTSB-SO-048	SM	Rec: 3.4/5'
30'	25-30'	Brown silty sand, fine to coarse-grained, poorly graded, wet (saturated 28-30') loose to mdm dense except 28-30' (dense to very dense) orange streaking from 29-29.4' 10YR 5/3	Ø	25-30'	(28-30') PLTSB-SO-049	SM	Rec: 3.7/5' water table ~28'

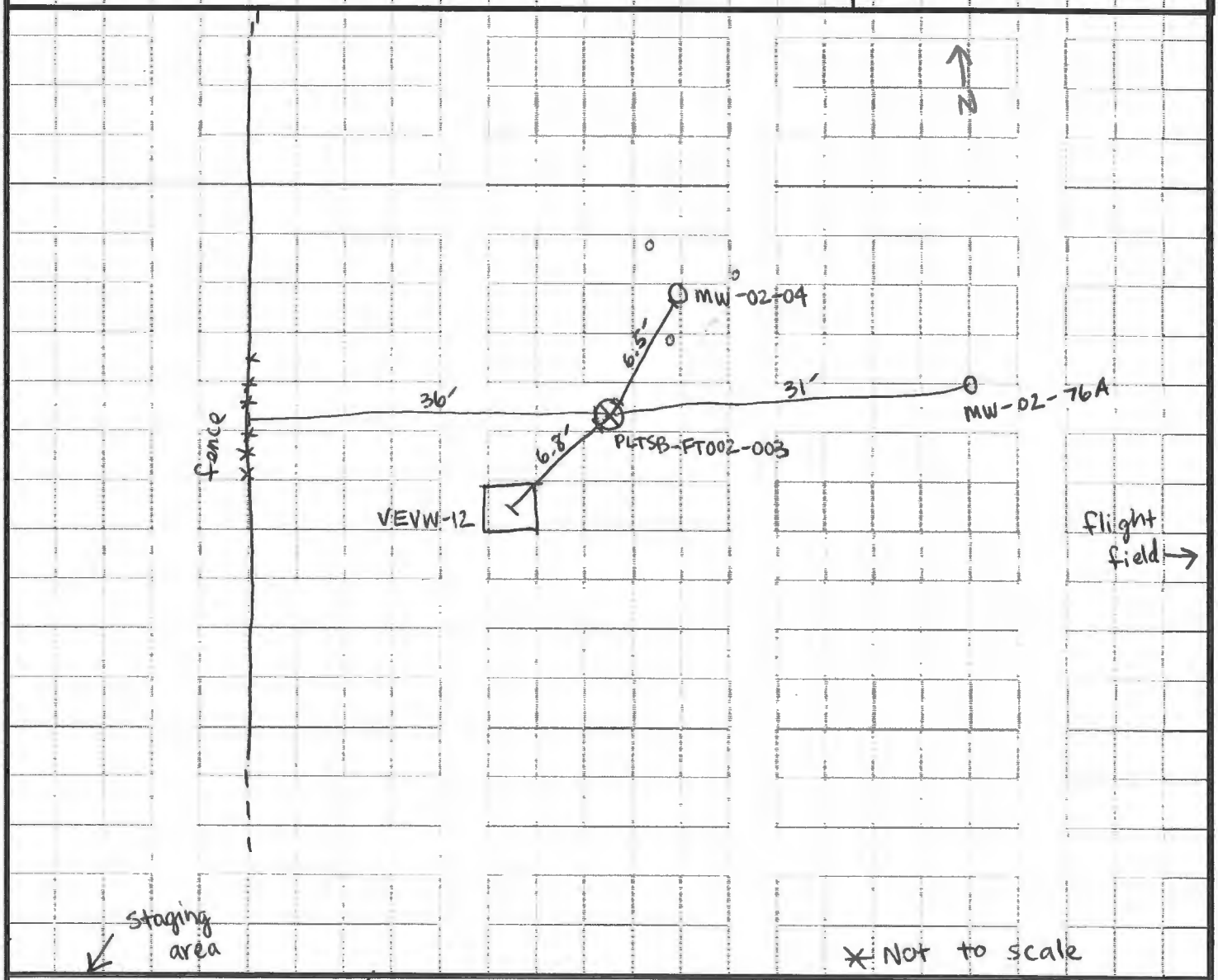
NAME/SIGNATURE: D. Lerner / [signature] DATE: 10/8/14

QAQC'd by: [signature] DATE: 10/9/14

Drilling Log (Page 1)
Rev. 1. Date: 07/21/2014

DRILLING LOG

LOCATION ID: PLTSB-FT002-003	INSTALLATION/SITE: Plattsburgh
DRILL SUBCONTRACTOR: New Hampshire Boring	SHEET: 1 of SHEETS: +4
PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766 Task Order 0177 775290177.0010.300B	DATE STARTED: 10/8/14
	DATE COMPLETED: 10/8/14
NAME OF DRILLER(S): Carl Downing, Mike Misiaszek	SURFACE ELEVATION: NA
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe 6610	SURFACE ELEVATION: NA
	TOTAL DEPTH OF BOREHOLE: 35'
	DEPTH OF GROUNDWATER ENCOUNTERED: 33.6'
	OVERBURDEN THICKNESS: N/A
	DEPTH DRILLED INTO ROCK: N/A
DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	OTHER WATER LEVEL MEASUREMENTS (SPECIFY): None
DISPOSITION OF BORE HOLE: backfilled	BACKFILLED: soil cuttings
MONITORING WELL: N/A	OTHER (SPECIFY): Soil boring
LOCATION SKETCH/COMMENTS: GPS located	SCALE: NA



Name/Signature: D. Lerner / [signature] Date: 10/8/14

QAQC'd by: [signature] Date: 12/5/14

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INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002-003

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 2 of 4 (DL)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	0-1'	Brown, silty sand, coarse-grained, loose, poorly graded, damp 10yR 4/3	0	hand auger (0-1')	(0-1') PLTSB-SO-021	(DF)	surface soil
					PLTSB-SO-022 (Field Duplicate)	~~SM~~ fill	
	1-5'	same as above with trace gravel 10yR 4/3	0	hand auger (1-5')	PLTSB-SO-023	~~SM~~ (DF)	
5'							
	5-10'	5.2-5.8': dark yellowish brown silty sand, coarse-grained, loose, poorly graded, damp, trace gravel 10yR 4/4					→ PID battery died @ 1410
		5.8-10': same as above but brownish yellow 10yR 6/6	NM	5-10'	(8-10') PLTSB-SO-024	SM	Rec: 4.8/5'
10'							
	10-15'	10.8-12.3': Dark yellowish brown silty sand, coarse-grained, loose, poorly graded, moist 10yR 5/8					
		12.3-15': same as above but fine to coarse grained, brown, loose to mdm dense 10yR 5/3	NM	10-15'	(13-15') PLTSB-SO-025	SM	Rec: 4.2/5'
15'							

NAME/SIGNATURE: D. Lerner / [signature] DATE: 10/8/14

QAQC'd by: [signature] DATE: 12/5/14

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INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FT002P003

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET 3 of 4

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	15-20'	Brown, silty sand, fine to coarse-grained, poorly sorted, loose, moist 10YR 5/3	NM	15-20'	(18-20') PLTSB-SO-026	SM	Rec: 4.4/5'
20'	20-25'	20.2-23.6': yellowish brown silty sand, coarse-grained, poorly sorted, loose, moist 10YR 5/4 23.6-24': same as above but fine-coarse grained and mdm dense. 24-25': same as above but light yellowish brown, loose, moist to wet. 10YR 6/4	NM	20-25'	(23-25') PLTSB-SO-027	SM	Rec: 4.8/5'
25'	25-30'	25.9-26.2': ~~silty~~ yellowish brown silty sand, fine to coarse-grained, poorly sorted, loose, moist. 10YR 5/6. 26.2-26.8': same as above but dense. 26.8-27.2': same as above but loose. 27.2-27.6': same as above but dense w/ trace orange streaks. 27.6-29': same as above but loose. 29-29.4': same as 26.2-26.8'. 29.4-30': same as above but brownish yellow, loose 10YR 6/6	NM	25-30'	(28-30') PLTSB-SO-028	SM	Rec: 4.1/5'
30'							

NAME/SIGNATURE: D. Lerner / [signature] DATE: 10/8/14

QAQC'd by: [signature] DATE: 12/8/14

DRILLING LOG (Page 2)

INSTALLATION/SITE: Plattsburgh/ FT030P

LOCATION ID: PLTSB-FTOC2-~~008~~ 003

PROJECT / PROJECT NUMBER: PFCs Release Determination at Multiple BRAC Bases, Contract FA8903-08-8766
Task Order 0177 / 775290177.0010.300B

SHEET: 4 ~~3~~ of SHEETS: ~~3~~ 4 (R1)

ELEV (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	HNU SCREENING RESULTS (PPM) (d)	PUSH / SAMPLE INTERVAL (e)	ANALYTICAL SAMPLE NO (f)	USCS (g)	REMARKS (h)
	30-35'	30.5 - 32.6: dark yellowish brown, silty sand, fine to coarse grained, wet, loose to mdm dense. Trace orange streaks 10YR 4/6 32.6 - 33.5: same as above but yellowish brown: 10YR 5/4. 33.5 - 34.4: same as above but dark gray 10YR 4/1 34.4 - 35: same as above but very dark gray 10 YR 3/1	NM	30-35'	(33-35') PLTSB-SO-029	SM	Rec: 4.5/5 water table: ~33.6' strong fuel odor
35'				BOB - 35'			
40'							

NAME/SIGNATURE: D. Lexmex / DL — DATE: 10/8/14

QAQC'd by: [signature] — DATE: 12/5/14

APPENDIX D

LABORATORY CASE NARRATIVE AND DATA VALIDATION REPORT

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DATA VALIDATION REPORT
PERFLUORINATED COMPOUNDS (PFCs) RELEASE DETERMINATION
AT MULTIPLE BRAC BASES
FORMER PLATTSBURG AIR FORCE BASE
PLATTSBURG, NEW YORK

Samples Collected 29 September through 8 October 2014

Prepared for:
Air Force Civil Engineer Center
Joint Base San Antonio – Lackland, Texas

Prepared by:

amec foster wheeler

Contract FA8903-08-D-8766

Task Order 0177

May 2015

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ACRONYMS AND ABBREVIATION

µg/kg	Micrograms Per Kilogram
µg/L	Micrograms Per Liter
AMEC	Amec Foster Wheeler Environment & Infrastructure, Inc.
Accutest	Accutest Laboratories
CCV	Continuing Calibration Verification
CLP	Contract Laboratory Program
COC	Chain of Custody
DoD	Department Of Defense
EPA	United States Environmental Protection Agency
ICV	Initial Calibration Verification
ID	Identification
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection
LOQ	Limit of Quantification
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PFBS	Perfluorobutane sulfonic acid
PFCs	Perfluorinated Compounds
PFDA	Perfluorodecanoic acid
PFHPA	Perfluoroheptanoic acid
PFHxA	Perfluorohexanoic acid
PFHXSA	Perfluorohexane sulfonic acid
PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonic acid
QC	Quality Control
QPP	Quality Program Plan
RPD	Relative Percent Difference
SDG	Sample Delivery Group

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1.0 INTRODUCTION

Amec Foster Wheeler Environment & Infrastructure, Inc. (AMEC)[1] collected fifty two water samples, including three field blanks and ten equipment blanks, and ninety soil or sediment samples between 29 September and 8 October, 2014, from the former Plattsburgh Air Force Base, located in Plattsburgh, New York. Amec Foster Wheeler submitted the samples to Accutest Laboratories (Accutest), located in Orlando, Florida between 30 September and 9 October, 2014, where they were assigned to sample delivery groups (SDGs) FA18740, FA18741, FA18803, FA18868, FA18890, FA18988, and FA19006. Accutest analyzed the samples for perfluorinated compounds (PFCs) by United States Environmental Protection Agency (EPA) Method 537. A list of these samples by field sample identification (ID), sample collection date, sample matrix, and Accutest sample ID is presented in Table 1.

[1] AMEC Environment & Infrastructure, Inc. changed its name on 1 January 2015 to Amec Foster Wheeler Environment & Infrastructure, Inc., to reflect AMEC's acquisition of Foster Wheeler. Contract FA8903-08-D-8766 was modified on 26 March 2015 to reflect the name change. All resource documents created under AMEC Environment & Infrastructure, Inc. remain in place and are executed under Amec Foster Wheeler Environment & Infrastructure, Inc.

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2.0 DATA VALIDATION METHODOLOGY

Amec Foster Wheeler performed EPA Stage IV validation on 10% of the samples and EPA Stage 2B validation on the remaining samples associated with this sampling event as indicated on Table 1. The Stage IV validation includes review of the quality control (QC) results in the laboratory's analytical report and reported on QC summary forms as well as recalculation checks and review of the instrument raw data outputs. The Stage 2B validation includes review of the QC results in the laboratory's analytical report and reported on QC summary forms with no review of the associated raw data. Data from equipment and field blanks did not undergo validation because results from these samples are only used to assess data usability for field samples. This data validation has been performed in general accordance with:

- AMEC, 2014. Final (Revision 1), PFCs Release Determination at Multiple BRAC Bases, Quality Program Plan (QPP), Contract FA8903-08-D-8766, Task Order 0177, July 2014.
- Department of Defense (DoD), 2010. DoD Quality Systems Manual for Environmental Laboratories, Version 4.2. 25 October, 2010.
- EPA, 2009. Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), Version 1.1, September 2009. EPA Document #: EPA/600/R-08/092.
- EPA, 2014. EPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, EPA/540-R-014-002.

The CLP guideline was written specifically for the CLP, and has been modified for the purposes of this data review where it differs from method-specific, QPP-specified, and laboratory-specified QC requirements.

The laboratory's certified analytical report and supporting documentation were reviewed to assess the following:

- Data package and electronic data deliverable completeness;
- Laboratory case narrative review;
- Chain of custody (COC) compliance;
- Holding time compliance;
- QC sample frequency;
- Initial calibration, initial calibration verification (ICV), and continuing calibration verification (CCV) compliance with method-specified criteria;
- Presence or absence of laboratory contamination as demonstrated by laboratory blanks;
- Accuracy and bias as demonstrated by recovery of surrogate spikes, laboratory control sample (LCS), and matrix spike (MS) samples;
- Internal standard recoveries;
- Analytical precision as relative percent difference (RPD) of analyte concentration between laboratory duplicates or MS/MS duplicate (MSD);

- Sampling and analytical precision as RPD of analyte concentration between field duplicates;
- Assessment of field contamination as demonstrated by field and trip blanks;
- Insofar as possible, the degree of conformance to method requirements and good laboratory practices.

In general, it is important to recognize that no analytical data are guaranteed to be correct, even if all QC audits are passed. Strict QC serves to increase confidence in data, but any reported value may potentially contain error.

3.0 EXPLANATION OF DATA QUALITY INDICATORS

Summary explanations of the specific data quality indicators reviewed during this data quality review are presented below.

3.1 LABORATORY CONTROL SAMPLE RECOVERIES

LCSs and LCS duplicates (LCSDs) are aliquots of analyte-free matrices that are spiked with the analytes of interest for an analytical method, or a representative subset of those analytes. The spiked matrix is then processed through the same analytical procedures as the samples they accompany. LCS recovery is an indication of a laboratory's ability to successfully perform an analytical method in an interference-free matrix.

3.2 MATRIX SPIKE RECOVERIES

MSs and MSDs are prepared by adding known amounts of the analytes of interest for an analytical method, or a representative subset of those analytes, to an aliquot of sample. The spiked sample is then processed through the same extraction, concentration, cleanup, and analytical procedures as the unspiked samples in an analytical batch.

MS recovery and precision are an indication of a laboratory's ability to successfully recover an analyte in the matrix of a specific sample or closely related sample matrices. It is important not to apply MS results for any specific sample to other samples without understanding how the sample matrices are related.

3.3 SURROGATE SPIKE RECOVERIES

Surrogate spikes are used to evaluate accuracy, method performance, and extraction efficiency in each individual sample. Surrogate compounds are compounds not normally found in environmental samples, but which are similar to target analytes in chemical composition and behavior in the analytical process.

3.4 BLANK CONCENTRATIONS

Blank samples are aliquots of analyte free matrix that are used as negative controls to verify that the sample collection, storage, preparation, and analysis system does not produce false positive results.

Equipment blanks are prepared by passing analyte-free water through or over sample collection equipment and collecting the water in sample containers. Equipment blanks are analyzed for the analytical suite required for the project. Equipment blanks are used to monitor for possible sample contamination during the sample collection process and serve as a check on the effectiveness of field decontamination procedures.

Field blanks are prepared by pouring an aliquot of analyte-free water into a sample container in the field. Field blanks are analyzed for the analytical suite required for the project. Field blanks are used to monitor for possible sample contamination originating from the water used for equipment decontamination.

Laboratory, equipment, and field blanks are processed by the laboratory using exactly the same procedures as the field samples. Target analytes should not be found in laboratory blanks.

When target analytes are detected in blanks, analyte concentrations in the associated samples less than 10 times the concentration detected in the blank will be B qualified.

3.5 LABORATORY AND FIELD DUPLICATES

Laboratory and field duplicate analysis verifies acceptable method precision by the laboratory at the time of preparation and analysis and/or sampling precision at the time of collection.

4.0 DEFINITIONS OF QUALIFIERS THAT MAY BE USED DURING DATA VALIDATION

B The analyte was detected in the sample and an associated blank and the concentration detected in the sample was less than 10 times the concentration detected in the blank.

U The analyte was analyzed for, but was not detected above the reported limit of detection (LOD).

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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5.0 QUALIFICATION REASON CODES

Amec Foster Wheeler applied the following reason code to the data during validation:

CCH	High CCV recovery. Analytical result may be biased high.
FDD	Field duplicate imprecision.
MSH	High MS recovery. Analytical result may be biased high.
MSL	Low MS recovery. Analytical result may be biased low.
SGL	Low surrogate recovery. Analytical result may be biased low.
TR	Detected concentration is less than the limit of quantification (LOQ).

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6.0 CHAIN OF CUSTODY AND SAMPLE RECEIPT CONDITION DOCUMENTATION

The samples were received at the laboratory under proper COC, intact, properly preserved, and at temperatures less than the QPP-specified maximum of 10 degrees Celsius.

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7.0 SPECIFIC DATA VALIDATION FINDINGS

Results from these samples may be considered usable with the limitations and exceptions described Sections 7.1 through 8.0.

7.1 PERFLUORINATED COMPOUNDS BY EPA METHOD 537

PFCs results generated by Accutest are usable with the limitations described in Sections 7.1.1 through 7.1.11.

7.1.1 Holding Times

The samples were extracted for PFCs within the QPP-specified maximum holding time of 14 days from sample collection and the extracts were analyzed within the QPP-specified maximum hold time of 28 days from extraction.

7.1.2 Initial Calibrations

The initial calibrations associated with the analysis of these samples met the QPP-specified criteria of regression factors greater than 0.995.

7.1.3 Initial Calibration Verification

ICV recoveries were within the QPP specified 75% to 125% limits.

7.1.4 Continuing Calibration Verification

CCV recoveries were within the QPP specified 75% to 125% limits with the following exception.

- Perfluorononanoic acid (PFNA) recovery was high at 134.6% in the closing CCV associated with the analysis of samples PLTSB-GW-014, PLTSB-GW-015, and PLTSB GW-016. Data limitations are summarized below.
  - Amec Foster Wheeler J qualified the detected PFNA results from sample PLTSB-GW-014 and PLTSB-GW-016 because of the potential high analytical bias. (Qualifier and reason code: J-CCH)
  - PFNA was not detected in sample PLTSB-GW-015 and data usability is not adversely affected by the potential high analytical bias.
- PFNA recovery was high at 126.9% in the closing CCV associated with the analysis of samples PLTSB-GW-010 and PLTSB-SO-054. PFNA was not detected in these samples and data usability is not adversely affected by the potential high analytical bias.
- PFNA recovery was high at 127.9% in the closing CCV associated with the analysis of sample PLTSB-SO-032 and the opening CCV associated with the analysis of samples PLTSB-SO-033, PLTSB-SO-034, PLTSB-SO-035, PLTSB-SO-036, PLTSB-SO-037, PLTSB-SO-038, PLTSB-SO-039, PLTSB-SO-041, and PLTSB-SO-040. PFNA was not detected in these samples and data usability is not adversely affected by the potential high analytical bias.

7.1.5 Laboratory Blanks

PFCs were not detected in the laboratory blanks associated with these samples.

7.1.6 Field and Equipment Blanks

Target analytes were not detected in the field and equipment blanks associated with these samples with the following exception.

- Perfluorooctanesulfonic acid (PFOS) was detected at a concentration of 0.016 micrograms per liter (µg/L) in equipment blank sample PLTSB-FT002P-BLK04 associated with SDG FA18988. PFOS results for samples associated with this SDG were either not-detected or were detected at concentrations greater than ten times the concentration detected in the blank and data usability is not adversely affected.

7.1.7 Laboratory Control Sample Accuracy

LCS recoveries were within QPP specified 70 to 130% limits.

7.1.8 Matrix Spikes/ Matrix Spike Duplicates

Accutest performed MS and MSD analyses on samples PLTSB-SW-006, PLTSB-SD-002, PLTSB SW-002, PLTSB-EFF-001, PLTSB-SO-016, PLTSB-SO-032, PLTSB-SO-038, PLTSB SO 062, and PLTSB-SO-084. Recoveries were within the QPP-specified 70 to 130% limits and precision values were less than the QPP-specified maximum of 30% with the following exceptions.

- Perfluorohexanesulfonic acid (PFHXSA) and PFOS recoveries were high at 154% and 140%, respectively, in the MS performed on sample PLTSB-SW-006. Amec Foster Wheeler J qualified the detected PFHXSA and PFOS results from this sample because of the potential high analytical bias. (Qualifier and reason code: J-MSH)
- Perfluorooctanoic acid (PFOA) (29%, 45%), PFHXSA (38%-MS), and PFOS (153%, 175%) recoveries were outside established limits in the MS and/or MSD performed on sample PLTSB-SW-002. Data limitations are summarized below.
  - Amec Foster Wheeler J qualified the detected PFOA results from sample PLTSB-SW-002 and its field duplicate PLTSB-SW-003 because of the potential low analytical bias. (Qualifier and reason code: J-MSL)
  - Amec Foster Wheeler J qualified the detected PFOS results from sample PLTSB-SW-002 and its field duplicate PLTSB-SW-003 because of the potential high analytical bias. (Qualifier and reason code: J-MSH)
  - The concentration of PFHXA in the native unspiked sample, at 1.24 µg/L, was greater than four times the spike concentration of 0.16 µg/L and it is not possible to evaluate data usability for this analyte based on spike recoveries.

- PFOA (69%-MSD), PFNA (146%, 140%), PFHXSA (25%-MSD), and PFOS (63%-MSD) recoveries were outside established limits in the MS and/or MSD performed on sample PLTSB-EFF-001. Data limitations are summarized below.
  - Amec Foster Wheeler J qualified the detected PFOA and PFOS results from sample PLTSB EFF 001 and its field duplicate PLTSB-EFF-002 because of the potential low analytical bias. (Qualifier and reason code: J-MSL)
  - PFNA was not detected in samples PLTSB-EFF-001 and PLTSB-EFF-002 and data usability is not adversely affected by the potential high analytical bias.
  - The concentration of PFHXA in the native unspiked sample, at 1.29 µg/L, was greater than four times the spike concentration of 0.16 µg/L and it is not possible to evaluate data usability for this analyte based on spike recoveries.
- PFOA recovery was low at 66% in the MSD performed on sample PLTSB-SO-016. Amec Foster Wheeler J qualified the detected PFOA result from this sample because of the potential low analytical bias. (Qualifier and reason code: J-MSL)
- Perfluoroheptanoic acid (PFHPA) and perfluorobutanesulfonic acid (PFBS) were not recovered and PFOA (-16%, -15%) and PFOS (23%, -22%) recoveries were low in the MS and MSD performed on sample PLTSB-SO-032. Data limitations are summarized below.
  - The high PFOS concentration detected in the unspiked sample made it necessary to analyze the sample, MS, and MSD at 20-fold dilutions. At this dilution, the LODs for PFHPA, PFBS, and PFOA exceeded the expected results for these analytes and it is not possible to evaluate data usability for these analytes based on spike recoveries.
  - The concentration of PFOS in the native unspiked sample, at 1,870 micrograms per kilogram (µg/kg), was greater than four times the spike concentration of 85.6 µg/kg and it is not possible to evaluate data usability for this analyte based on spike recoveries.

7.1.9 Surrogate Recoveries

Surrogate recoveries were within the QPP specified 70 to 130% limits with the following exceptions.

- Recovery of the surrogate compound 13C2-perfluorohexanoic acid (PFHxA) was high at 136% in the re-analysis of sample PLTSB-SW-002. This sample was re-analyzed at a 5-fold dilution and it is not possible to evaluate data usability for this analysis based on surrogate recoveries.
- Surrogate compounds were not recovered in the re-analysis of samples PLTSB GW 004, PLTSB-GW-005, PLTSB-GW-014, PLTSB-SO-032, PLTSB-SO-033, PLTSB-SO-054, PLTSB-SO-055, PLTSB-SO-056, PLTSB-SO-057, PLTSB-SO-058, PLTSB-SO-077, and PLTSB-SO-079. These samples were re-analyzed at dilutions between 20 and 200-fold that reduced surrogate concentrations below detectable limits. It is not possible to evaluate data usability for these analyses based on surrogate recoveries.

- Surrogate compounds were not recovered in the analysis of sample PLTSB-GW-010. This sample was analyzed at 500 and 2,500-fold dilutions that reduced surrogate concentrations below detectable limits and it is not possible to evaluate data usability for this sample based on surrogate recoveries.
- Recoveries of the surrogate compound 13C2-PFHxA were low in the analysis of samples PLTSB-SO-045 (69%), PLTSB-SO-023 (64%), and PLTSB-SO-024 (64%). Amec Foster Wheeler J qualified the detected and UJ qualified the non-detected PFC results from these samples because of the potential low analytical bias. (Qualifiers and reason code: J/UJ SGL)
- Recovery of the surrogate compounds 13C2-PFHxA and 13C2-perfluorodecanoic acid (PFDA) were low at 52% and 51%, respectively, in the analysis of samples PLTSB SO 025 and PLTSB-SO-026. Amec Foster Wheeler UJ qualified the non-detected PFC results from this sample because of the potential low analytical bias. (Qualifier and reason code: UJ-SGL)

7.1.10 Internal Standard Recoveries

Internal standard areas were within the QSM-specified limits of 50 to 150% of the average area counts measured during the initial calibration.

7.1.11 Data Reporting and Analytical Procedures

Accutest J qualified analytes with concentrations between the MDL and the LOQ. Amec Foster Wheeler agrees that these results are quantitatively uncertain and has maintained the laboratory's J qualifiers. (Qualifier and reason code: J-TR)

8.0 FIELD DUPLICATE RESULTS

Samples PLTSB-SD-002, PLTSB-SW-002, PLTSB-GW-012, PLTSB-GW-022, PLTSB-EFF-001, PLTSB-GW-004, PLTSB-SO-010, PLTSB-SO-032, PLTSB-SO-054 PLTSB-SO-065, PLTSB SO 083, PLTSB-SO-043, PLTSB-SO-070, and PLTSB-SO-021 were collected as field duplicates. Detected results and RPDs for the field duplicates are summarized in Table 3. All precision values were within the QPP-specified limits of less than 30% RPD or the difference between analytical results less than the LOQ with the following exception.

- The RPD between detected PFOS results from sample PLTSB-SW-002 and its field duplicate, PLTSB-SW-003 was high at 51.09%. Amec Foster Wheeler J qualified the detected PFOS results from these samples because of the potential sampling or analytical imprecision. (Qualifier and reason code: J-FDD)

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9.0 SUMMARY AND CONCLUSIONS

Amec Foster Wheeler evaluated a total of 774 data records from field samples during the validation. The data presented in this report met the QPP-specified criteria with the following exceptions:

- Amec Foster Wheeler J qualified the detected PFNA results from samples PLTSB-GW-014 and PLTSB-GW-016 because of high continuing calibration verification recovery (Section 7.1.4).
- Amec Foster Wheeler J qualified the detected PFHXSA and PFOS results from sample PLTSB-SW-006; the detected PFOA and PFOS results from samples PLTSB-SW-002, PLTSB EFF 001, and PLTSB-EFF-002; and the detected PFOA result from sample PLTSB-SO-016 because of high or low MS/MSD recoveries (Section 7.1.8).
- Amec Foster Wheeler J qualified the detected and UJ qualified the non-detected PFC results from samples PLTSB-SO-045, PLTSB-SO-023, PLTSB-SO-024, PLTSB SO 025, and PLTSB-SO-026 because of low surrogate recoveries (Section 7.1.9).
- Amec Foster Wheeler J qualified results from the associated samples when the detected concentration was between the MDL and the LOQ (Section 7.1.11).
- Amec Foster Wheeler J qualified the detected PFOS results from samples PLTSB-SW-002 and PLTSB-SW-003 because of field duplicate imprecision (Section 8.0).

No results were rejected during validation and the data are fully usable with the addition of the qualifiers summarized above and presented in Table 2.

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REFERENCES

AMEC, 2014. Final (Revision 1), PFCs Release Determination at Multiple BRAC Bases, Quality Program Plan (QPP), Contract FA8903-08-D-8766, Task Order 0177, July 2014.

Department of Defense (DoD), 2010. DoD Quality Systems Manual for Environmental Laboratories, Version 4.2. 25 October, 2010.

EPA, 2009. Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), Version 1.1, September 2009. EPA Document #: EPA/600/R-08/092.

EPA, 2014. EPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, EPA/540-R-014-002.

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TABLES

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Table 1
Field Samples Submitted to Accutest Laboratories
Plattsburgh Air Force Base, New York

Sample Identification	Collection Date	Sample Matrix	Laboratory SDG	Laboratory Sample Identification	Notes
PLTSB-SD-007	9/29/2014	Sediment	FA18740	FA18740-1	Level IV
PLTSB-SD-008	9/29/2014	Sediment	FA18740	FA18740-2	
PLTSB-SD-009	9/29/2014	Sediment	FA18740	FA18740-3	
PLTSB-SD-010	9/29/2014	Sediment	FA18740	FA18740-4	
PLTSB-SD-011	9/29/2014	Sediment	FA18740	FA18740-5	
PLTSB-SW-006	9/29/2014	Surface Water	FA18740	FA18740-6	MS/MSD
PLTSB-SW-007	9/29/2014	Surface Water	FA18740	FA18740-7	
PLTSB-SW-008	9/29/2014	Surface Water	FA18740	FA18740-8	
PLTSB-SW-009	9/29/2014	Surface Water	FA18740	FA18740-9	
PLTSB-SW-010	9/29/2014	Surface Water	FA18740	FA18740-10	
PLTSB-SW-011	9/29/2014	Surface Water	FA18740	FA18740-11	
PLTSB-GW-008	9/30/2014	Ground Water	FA18741	FA18741-1	
PLTSB-FT002P-BLK11	9/30/2014	QC Water	FA18803	FA18803-1	Equipment Blank
PLTSB-FT002P-BLK12	9/30/2014	QC Water	FA18803	FA18803-2	Field Blank
PLTSB-SD-001	9/30/2014	Sediment	FA18803	FA18803-3	
PLTSB-SD-002	9/30/2014	Sediment	FA18803	FA18803-4	MS/MSD
PLTSB-SD-003	9/30/2014	Sediment	FA18803	FA18803-5	Field Duplicate of Sample PLTSB-SD-002
PLTSB-SD-004	9/30/2014	Sediment	FA18803	FA18803-6	
PLTSB-SD-005	9/30/2014	Sediment	FA18803	FA18803-7	
PLTSB-SW-001	9/30/2014	Surface Water	FA18803	FA18803-8	Level IV
PLTSB-SW-002	9/30/2014	Surface Water	FA18803	FA18803-9	MS/MSD, Level IV
PLTSB-SW-003	9/30/2014	Surface Water	FA18803	FA18803-10	Field Duplicate of Sample PLTSB-SW-002
PLTSB-SW-004	9/30/2014	Surface Water	FA18803	FA18803-11	
PLTSB-SW-005	9/30/2014	Surface Water	FA18803	FA18803-12	
PLTSB-GW-007	9/30/2014	Ground Water	FA18803	FA18803-13	
PLTSB-INF-001	9/30/2014	Ground Water	FA18803	FA18803-14	
PLTSB-GW-002	10/2/2014	Ground Water	FA18868	FA18868-1	
PLTSB-GW-003	10/1/2014	Ground Water	FA18868	FA18868-2	
PLTSB-GW-011	10/1/2014	Ground Water	FA18868	FA18868-3	
PLTSB-GW-012	10/1/2014	Ground Water	FA18868	FA18868-4	
PLTSB-GW-013	10/1/2014	Ground Water	FA18868	FA18868-5	Field Duplicate of Sample PLTSB-GW-012
PLTSB-GW-017	10/1/2014	Ground Water	FA18868	FA18868-6	
PLTSB-GW-018	10/2/2014	Ground Water	FA18868	FA18868-7	
PLTSB-GW-019	10/2/2014	Ground Water	FA18868	FA18868-8	
PLTSB-GW-020	10/1/2014	Ground Water	FA18868	FA18868-9	
PLTSB-GW-021	10/1/2014	Ground Water	FA18868	FA18868-10	
PLTSB-GW-022	10/1/2014	Ground Water	FA18868	FA18868-11	
PLTSB-GW-023	10/1/2014	Ground Water	FA18868	FA18868-12	Field Duplicate of Sample PLTSB-GW-022
PLTSB-EFF-001	10/2/2014	Ground Water	FA18868	FA18868-13	MS/MSD
PLTSB-EFF-002	10/2/2014	Ground Water	FA18868	FA18868-14	Field Duplicate of Sample PLTSB-EFF-001
PLTSB-GW-001	10/2/2014	Ground Water	FA18868	FA18868-15	
PLTSB-GW-004	10/2/2014	Ground Water	FA18868	FA18868-16	
PLTSB-GW-005	10/2/2014	Ground Water	FA18868	FA18868-17	Field Duplicate of Sample PLTSB-GW-004
PLTSB-GW-006	10/2/2014	Ground Water	FA18868	FA18868-18	
PLTSB-GW-014	10/2/2014	Ground Water	FA18868	FA18868-19	
PLTSB-GW-015	10/2/2014	Ground Water	FA18868	FA18868-20	

Table 1
Field Samples Submitted to Accutest Laboratories
Plattsburgh Air Force Base, New York

Sample Identification	Collection Date	Sample Matrix	Laboratory SDG	Laboratory Sample Identification	Notes
PLTSB-GW-016	10/2/2014	Ground Water	FA18868	FA18868-21	
PLTSB-GW-025	10/3/2014	Ground Water	FA18890	FA18890-1	Level IV
PLTSB-GW-026	10/3/2014	Ground Water	FA18890	FA18890-2	Level IV
PLTSB-FT002P-BLK09	10/3/2014	QC Water	FA18890	FA18890-3	Field Blank
PLTSB-GW-010	10/3/2014	Ground Water	FA18890	FA18890-4	Level IV
PLTSB-GW-BLK08	10/3/2014	QC Water	FA18890	FA18890-5	Equipment Blank
PLTSB-GW-024	10/3/2014	Ground Water	FA18890	FA18890-6	
PLTSB-FT-002P-BLK01	10/7/2014	QC Water	FA18988	FA18988-1	Equipment Blank
PLTSB-FT002P-BLK08	10/6/2014	QC Water	FA18988	FA18988-2	Field Blank
PLTSB-SO-001	10/6/2014	Soil	FA18988	FA18988-3	Level IV
PLTSB-SO-002	10/6/2014	Soil	FA18988	FA18988-4	Level IV
PLTSB-SO-003	10/6/2014	Soil	FA18988	FA18988-5	Level IV
PLTSB-SO-004	10/6/2014	Soil	FA18988	FA18988-6	Level IV
PLTSB-SO-005	10/6/2014	Soil	FA18988	FA18988-7	Level IV
PLTSB-SO-006	10/6/2014	Soil	FA18988	FA18988-8	Level IV
PLTSB-SO-007	10/6/2014	Soil	FA18988	FA18988-9	Level IV
PLTSB-SO-008	10/6/2014	Soil	FA18988	FA18988-10	Level IV
PLTSB-SO-009	10/6/2014	Soil	FA18988	FA18988-11	
PLTSB-SO-010	10/7/2014	Soil	FA18988	FA18988-12	
PLTSB-FT002-BLK02	10/7/2014	QC Water	FA18988	FA18988-13	Equipment Blank
PLTSB-SO-011	10/7/2014	Soil	FA18988	FA18988-14	Field Duplicate of Sample PLTSB-SO-010
PLTSB-SO-012	10/7/2014	Soil	FA18988	FA18988-15	
PLTSB-SO-013	10/7/2014	Soil	FA18988	FA18988-16	
PLTSB-SO-014	10/7/2014	Soil	FA18988	FA18988-17	
PLTSB-SO-015	10/7/2014	Soil	FA18988	FA18988-18	
PLTSB-SO-016	10/7/2014	Soil	FA18988	FA18988-19	MS/MSD
PLTSB-SO-017	10/7/2014	Soil	FA18988	FA18988-20	
PLTSB-SO-019	10/7/2014	Soil	FA18988	FA18988-21	
PLTSB-SO-020	10/7/2014	Soil	FA18988	FA18988-22	
PLTSB-SO-031	10/7/2014	Soil	FA18988	FA18988-23	
PLTSB-SO-032	10/7/2014	Soil	FA18988	FA18988-24	MS/MSD
PLTSB-SO-033	10/7/2014	Soil	FA18988	FA18988-25	Field Duplicate of Sample PLTSB-SO-032
PLTSB-SO-034	10/7/2014	Soil	FA18988	FA18988-26	
PLTSB-SO-035	10/7/2014	Soil	FA18988	FA18988-27	
PLTSB-SO-036	10/7/2014	Soil	FA18988	FA18988-28	
PLTSB-SO-037	10/7/2014	Soil	FA18988	FA18988-29	
PLTSB-SO-038	10/7/2014	Soil	FA18988	FA18988-30	MS/MSD
PLTSB-SO-039	10/7/2014	Soil	FA18988	FA18988-31	
PLTSB-SO-040	10/7/2014	Soil	FA18988	FA18988-32	
PLTSB-SO-041	10/7/2014	Soil	FA18988	FA18988-33	
PLTSB-SO-052	10/7/2014	Soil	FA18988	FA18988-34	
PLTSB-SO-053	10/7/2014	Soil	FA18988	FA18988-35	
PLTSB-FT002P-BLK04	10/7/2014	QC Water	FA18988	FA18988-36	Equipment Blank
PLTSB-SO-054	10/7/2014	Soil	FA18988	FA18988-37	
PLTSB-SO-055	10/7/2014	Soil	FA18988	FA18988-38	Field Duplicate of Sample PLTSB-SO-054
PLTSB-SO-056	10/7/2014	Soil	FA18988	FA18988-39	
PLTSB-SO-057	10/7/2014	Soil	FA18988	FA18988-40	
PLTSB-SO-058	10/7/2014	Soil	FA18988	FA18988-41	
PLTSB-SO-059	10/7/2014	Soil	FA18988	FA18988-42	

Table 1
Field Samples Submitted to Accutest Laboratories
Plattsburgh Air Force Base, New York

Sample Identification	Collection Date	Sample Matrix	Laboratory SDG	Laboratory Sample Identification	Notes
PLTSB-SO-060	10/7/2014	Soil	FA18988	FA18988-43	
PLTSB-SO-061	10/7/2014	Soil	FA18988	FA18988-44	
PLTSB-SO-062	10/7/2014	Soil	FA18988	FA18988-45	MS/MSD
PLTSB-SO-074	10/7/2014	Soil	FA18988	FA18988-46	
PLTSB-SO-075	10/7/2014	Soil	FA18988	FA18988-47	
PLTSB-SO-018	10/7/2014	Soil	FA18988	FA18988-48	
PLTSB-SO-076	10/7/2014	Soil	FA18988	FA18988-49	
PLTSB-SO-077	10/7/2014	Soil	FA18988	FA18988-50	
PLTSB-SO-078	10/7/2014	Soil	FA18988	FA18988-51	
PLTSB-SO-079	10/7/2014	Soil	FA18988	FA18988-52	
PLTSB-SO-080	10/7/2014	Soil	FA18988	FA18988-53	
PLTSB-SO-073	10/7/2014	Soil	FA18988	FA18988-54	
PLTSB-FT002P-BLK03	10/7/2014	QC Water	FA18988	FA18988-55	Equipment Blank
PLTSB-FT002P-BLK05	10/8/2014	QC Water	FA19006	FA19006-1	Equipment Blank
PLTSB-SO-063	10/8/2014	Soil	FA19006	FA19006-2	
PLTSB-SO-064	10/8/2014	Soil	FA19006	FA19006-3	
PLTSB-SO-065	10/8/2014	Soil	FA19006	FA19006-4	
PLTSB-SO-066	10/8/2014	Soil	FA19006	FA19006-5	Field Duplicate of Sample PLTSB-SO-065
PLTSB-SO-067	10/8/2014	Soil	FA19006	FA19006-6	
PLTSB-SO-068	10/8/2014	Soil	FA19006	FA19006-7	
PLTSB-SO-069	10/8/2014	Soil	FA19006	FA19006-8	
PLTSB-SO-081	10/8/2014	Soil	FA19006	FA19006-9	
PLTSB-SO-082	10/8/2014	Soil	FA19006	FA19006-10	
PLTSB-SO-083	10/8/2014	Soil	FA19006	FA19006-11	
PLTSB-SO-084	10/8/2014	Soil	FA19006	FA19006-12	Field Duplicate of Sample PLTSB-SO-083, MS/MSD
PLTSB-FT002P-BLK06	10/8/2014	QC Water	FA19006	FA19006-13	Equipment Blank
PLTSB-FT002P-BLK07	10/8/2014	QC Water	FA19006	FA19006-14	Equipment Blank
PLTSB-SO-042	10/8/2014	Soil	FA19006	FA19006-15	
PLTSB-SO-043	10/8/2014	Soil	FA19006	FA19006-16	
PLTSB-SO-044	10/8/2014	Soil	FA19006	FA19006-17	Field Duplicate of Sample PLTSB-SO-043
PLTSB-SO-045	10/8/2014	Soil	FA19006	FA19006-18	
PLTSB-SO-046	10/8/2014	Soil	FA19006	FA19006-19	
PLTSB-SO-047	10/8/2014	Soil	FA19006	FA19006-20	
PLTSB-SO-048	10/8/2014	Soil	FA19006	FA19006-21	
PLTSB-SO-049	10/8/2014	Soil	FA19006	FA19006-22	
PLTSB-SO-070	10/8/2014	Soil	FA19006	FA19006-23	
PLTSB-SO-071	10/8/2014	Soil	FA19006	FA19006-24	Field Duplicate of Sample PLTSB-SO-070
PLTSB-FT002P-BLK09	10/8/2014	QC Water	FA19006	FA19006-25	Equipment Blank
PLTSB-SO-021	10/8/2014	Soil	FA19006	FA19006-26	
PLTSB-SO-022	10/8/2014	Soil	FA19006	FA19006-27	Field Duplicate of Sample PLTSB-SO-021
PLTSB-SO-023	10/8/2014	Soil	FA19006	FA19006-28	
PLTSB-SO-024	10/8/2014	Soil	FA19006	FA19006-29	
PLTSB-SO-025	10/8/2014	Soil	FA19006	FA19006-30	
PLTSB-SO-026	10/8/2014	Soil	FA19006	FA19006-31	
PLTSB-SO-027	10/8/2014	Soil	FA19006	FA19006-32	
PLTSB-SO-028	10/8/2014	Soil	FA19006	FA19006-33	
PLTSB-SO-029	10/8/2014	Soil	FA19006	FA19006-34	

Table 1
Field Samples Submitted to Accutest Laboratories
Plattsburgh Air Force Base, New York

Sample Identification	Collection Date	Sample Matrix	Laboratory SDG	Laboratory Sample Identification	Notes

Notes:
MS/MSD = Matrix Spike / Matrix Spike Duplicate
SDG = Sample Delivery Group

Table 2
Qualifiers Added During Validation
Plattsburgh Air Force Base, New York

Sample Identification	Analyte	Results	Validation Qualifiers and Reason Codes
PLTSB-EFF-001	Perfluorooctane sulfonic acid	0.41 µg/L	J MSL
	Perfluorooctanoic acid	0.419 µg/L	J MSL, TR
PLTSB-EFF-002	Perfluorooctane sulfonic acid	0.399 µg/L	J MSL
	Perfluorooctanoic acid	0.388 µg/L	J MSL
PLTSB-GW-002	Perfluoroheptanoic acid	0.0109 µg/L	J TR
PLTSB-GW-007	Perfluoroheptanoic acid	0.0126 µg/L	J TR
	Perfluorooctanoic acid	0.0391 µg/L	J TR
PLTSB-GW-008	Perfluoroheptanoic acid	0.00941 µg/L	J TR
	Perfluorooctanoic acid	0.0176 µg/L	J TR
PLTSB-GW-011	Perfluorobutane sulfonic acid	0.00928 µg/L	J TR
	Perfluoroheptanoic acid	0.00853 µg/L	J TR
PLTSB-GW-012	Perfluorobutane sulfonic acid	0.01 µg/L	J TR
	Perfluoroheptanoic acid	0.0145 µg/L	J TR
	Perfluorooctane sulfonic acid	0.0104 µg/L	J TR
	Perfluorooctanoic acid	0.409 µg/L	J TR
PLTSB-GW-013	Perfluorobutane sulfonic acid	0.00989 µg/L	J TR
	Perfluoroheptanoic acid	0.0151 µg/L	J TR
	Perfluorooctane sulfonic acid	0.0101 µg/L	J TR
PLTSB-GW-014	Perfluorononanoic acid	0.119 µg/L	J CCH
PLTSB-GW-015	Perfluoroheptanoic acid	0.00849 µg/L	J TR
	Perfluorooctanoic acid	0.0267 µg/L	J TR
PLTSB-GW-016	Perfluorononanoic acid	0.0156 µg/L	J CCH, TR
PLTSB-GW-017	Perfluorononanoic acid	0.0105 µg/L	J TR
	Perfluorooctanoic acid	0.0386 µg/L	J TR
PLTSB-GW-018	Perfluorooctane sulfonic acid	0.0116 µg/L	J TR
	Perfluorooctanoic acid	0.0241 µg/L	J TR
PLTSB-GW-020	Perfluoroheptanoic acid	0.00824 µg/L	J TR
	Perfluorooctanoic acid	0.0231 µg/L	J TR
PLTSB-GW-021	Perfluoroheptanoic acid	0.0167 µg/L	J TR
	Perfluorooctanoic acid	0.0283 µg/L	J TR
PLTSB-GW-022	Perfluorooctanoic acid	0.0204 µg/L	J TR
PLTSB-GW-023	Perfluorooctanoic acid	0.0202 µg/L	J TR
PLTSB-GW-024	Perfluoroheptanoic acid	0.0109 µg/L	J TR
	Perfluorohexane sulfonic acid	0.00973 µg/L	J TR
	Perfluorooctanoic acid	0.0196 µg/L	J TR
PLTSB-GW-025	Perfluorohexane sulfonic acid	0.0172 µg/L	J TR
	Perfluorooctanoic acid	0.0343 µg/L	J TR
PLTSB-GW-026	Perfluorohexane sulfonic acid	0.0145 µg/L	J TR

Table 2
Qualifiers Added During Validation
Plattsburgh Air Force Base, New York

Sample Identification	Analyte	Results	Validation Qualifiers and Reason Codes
PLTSB-SO-003	Perfluorooctane sulfonic acid	6.07 µg/kg	J TR
PLTSB-SO-010	Perfluorohexane sulfonic acid	6.06 µg/kg	J TR
PLTSB-SO-011	Perfluorohexane sulfonic acid	6.43 µg/kg	J TR
PLTSB-SO-013	Perfluorohexane sulfonic acid	9.04 µg/kg	J TR
PLTSB-SO-016	Perfluoroheptanoic acid	5.46 µg/kg	J TR
	Perfluorooctanoic acid	337 µg/kg	J MSL
PLTSB-SO-018	Perfluorooctane sulfonic acid	5.01 µg/kg	J TR
PLTSB-SO-023	Perfluorobutane sulfonic acid	ND µg/kg	UJ SGL
	Perfluoroheptanoic acid	ND µg/kg	UJ SGL
	Perfluorohexane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorononanoic acid	ND µg/kg	UJ SGL
	Perfluorooctane sulfonic acid	13 µg/kg	J SGL
	Perfluorooctanoic acid	ND µg/kg	UJ SGL
PLTSB-SO-024	Perfluorobutane sulfonic acid	ND µg/kg	UJ SGL
	Perfluoroheptanoic acid	ND µg/kg	UJ SGL
	Perfluorohexane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorononanoic acid	ND µg/kg	UJ SGL
	Perfluorooctane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorooctanoic acid	ND µg/kg	UJ SGL
PLTSB-SO-025	Perfluorobutanesulfonic acid	ND µg/kg	UJ SGL
	Perfluoroheptanoic acid	ND µg/kg	UJ SGL
	Perfluorohexane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorononanoic acid	ND µg/kg	UJ SGL
	Perfluorooctane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorooctanoic acid	ND µg/kg	UJ SGL
PLTSB-SO-026	Perfluorobutane sulfonic acid	ND µg/kg	UJ SGL
	Perfluoroheptanoic acid	ND µg/kg	UJ SGL
	Perfluorohexane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorononanoic acid	ND µg/kg	UJ SGL
	Perfluorooctane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorooctanoic acid	ND µg/kg	UJ SGL
PLTSB-SO-027	Perfluorooctanoic acid	9.58 µg/kg	J TR
PLTSB-SO-028	Perfluorohexane sulfonic acid	12.4 µg/kg	J TR
PLTSB-SO-029	Perfluorohexane sulfonic acid	6 µg/kg	J TR
PLTSB-SO-032	Perfluorooctanoic acid	13.7 µg/kg	J TR

Table 2
Qualifiers Added During Validation
Plattsburgh Air Force Base, New York

Sample Identification	Analyte	Results	Validation Qualifiers and Reason Codes
PLTSB-SO-033	Perfluorooctanoic acid	12.1 µg/kg	J TR
PLTSB-SO-035	Perfluorohexane sulfonic acid	4.89 µg/kg	J TR
PLTSB-SO-038	Perfluorohexane sulfonic acid	6.87 µg/kg	J TR
	Perfluorooctane sulfonic acid	6.64 µg/kg	J TR
PLTSB-SO-039	Perfluorohexane sulfonic acid	10.6 µg/kg	J TR
PLTSB-SO-045	Perfluorobutane sulfonic acid	ND µg/kg	UJ SGL
	Perfluoroheptanoic acid	ND µg/kg	UJ SGL
	Perfluorohexane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorononanoic acid	ND µg/kg	UJ SGL
	Perfluorooctane sulfonic acid	ND µg/kg	UJ SGL
	Perfluorooctanoic acid	ND µg/kg	UJ SGL
PLTSB-SO-052	Perfluoroheptanoic acid	7.28 µg/kg	J TR
	Perfluorooctanoic acid	18 µg/kg	J TR
PLTSB-SO-053	Perfluorohexane sulfonic acid	6.97 µg/kg	J TR
PLTSB-SO-057	Perfluorohexane sulfonic acid	11 µg/kg	J TR
PLTSB-SO-059	Perfluorohexane sulfonic acid	9.99 µg/kg	J TR
PLTSB-SO-074	Perfluorohexane sulfonic acid	5.28 µg/kg	J TR
PLTSB-SO-075	Perfluorohexane sulfonic acid	5.37 µg/kg	J TR
PLTSB-SO-076	Perfluorohexane sulfonic acid	5.96 µg/kg	J TR
PLTSB-SO-077	Perfluorohexane sulfonic acid	10.2 µg/kg	J TR
PLTSB-SO-078	Perfluorohexane sulfonic acid	9.04 µg/kg	J TR
PLTSB-SO-079	Perfluorohexane sulfonic acid	9.93 µg/kg	J TR
	Perfluorononanoic acid	6.67 µg/kg	J TR
PLTSB-SO-080	Perfluorononanoic acid	7.59 µg/kg	J TR
PLTSB-SO-081	Perfluorooctane sulfonic acid	9.28 µg/kg	J TR
PLTSB-SO-082	Perfluorooctane sulfonic acid	9.36 µg/kg	J TR
PLTSB-SW-002	Perfluorooctane sulfonic acid	0.188 µg/L	J MSH, FDD
	Perfluorooctanoic acid	0.413 µg/L	J MSL
PLTSB-SW-003	Perfluorooctane sulfonic acid	0.317 µg/L	J MSH, FDD
	Perfluorooctanoic acid	0.374 µg/L	J MSL
PLTSB-SW-006	Perfluorobutane sulfonic acid	0.0111 µg/L	J TR
	Perfluorohexane sulfonic acid	0.286 µg/L	J MSH
	Perfluorooctane sulfonic acid	0.52 µg/L	J MSH
PLTSB-SW-007	Perfluorooctanoic acid	0.0395 µg/L	J TR
PLTSB-SW-008	Perfluorobutane sulfonic acid	0.0141 µg/L	J TR
	Perfluorononanoic acid	0.0137 µg/L	J TR
PLTSB-SW-009	Perfluorobutane sulfonic acid	0.0144 µg/L	J TR
	Perfluorononanoic acid	0.0108 µg/L	J TR

Table 2
Qualifiers Added During Validation
Plattsburgh Air Force Base, New York

Sample Identification	Analyte	Results	Validation Qualifiers and Reason Codes
PLTSB-SW-010	Perfluorobutane sulfonic acid	0.0194 µg/L	J TR
	Perfluorononanoic acid	0.0128 µg/L	J TR
PLTSB-SW-011	Perfluorononanoic acid	0.0101 µg/L	J TR

Validation Qualifiers

J = The associated result is quantitatively uncertain.

UJ = The analyte was not detected above the reported sample quantitation limit. The reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Reason Codes

CCH = Continuing calibration verification recovery is greater than the upper control limit.
FDD = Field duplicate imprecision.
MSH = High matrix spike recovery. Analytical result may be biased high.
MSL = Low matrix spike recovery. Analytical result may be biased low.
SGL = Surrogate recovery is less than the lower control limit.
TR = Result reported between the limit of quantitation and the limit of detection.

Table 3
Field Duplicate Detections
Plattsburgh Air Force Base, New York

Analyte	LOQ	Primary Sample	Field Duplicate	Units	RPD	Notes
Samples PLTSB-SD-002 and PLTSB-SD-003						
No Detections						
Samples PLTSB-SW-002 and PLTSB-SW-003						
Perfluorobutane sulfonic acid	0.020	0.0319	0.0351	µg/L	9.55%	
Perfluoroheptanoic acid	0.020	0.0893	0.0849	µg/L	5.05%	
Perfluorohexane sulfonic acid	0.10	1.24	1.19	µg/L	4.12%	
Perfluorooctanoic acid	0.20	0.413	0.374	µg/L	9.91%	
Perfluorooctane sulfonic acid	0.10	0.188	0.317	µg/L	51.09%	J-FDD
Samples PLTSB-GW-012 and PLTSB-GW-013						
Perfluorobutane sulfonic acid	0.021	0.010 J	0.00989 J	µg/L	1.11%	
Perfluoroheptanoic acid	0.021	0.0145 J	0.0151 J	µg/L	4.05%	
Perfluorohexane sulfonic acid	0.21	3.01	3.24	µg/L	7.36%	
Perfluorooctanoic acid	0.42	0.409 J	0.436	µg/L	6.39%	
Perfluorooctane sulfonic acid	0.021	0.0104 J	0.0101 J	µg/L	2.93%	
Samples PLTSB-GW-022 and PLTSB-GW-023						
Perfluorohexane sulfonic acid	0.020	0.116	0.113	µg/L	2.62%	
Perfluorooctanoic acid	0.040	0.0204 J	0.0202	µg/L	0.99%	
Perfluorooctane sulfonic acid	0.020	0.348	0.361	µg/L	3.67%	
Samples PLTSB-EFF-001 and PLTSB-EFF-002						
Perfluorobutane sulfonic acid	0.021	0.032	0.0315	µg/L	1.57%	
Perfluoroheptanoic acid	0.021	0.0998	0.105	µg/L	5.08%	
Perfluorohexane sulfonic acid	0.21	1.29	1.29	µg/L	0.00%	
Perfluorooctanoic acid	0.42	0.419 J	0.388	µg/L	7.68%	
Perfluorooctane sulfonic acid	0.21	0.41	0.399	µg/L	2.72%	
Samples PLTSB-GW-004 and PLTSB-GW-005						
Perfluorobutane sulfonic acid	0.020	0.238	0.221	µg/L	7.41%	
Perfluoroheptanoic acid	0.020	0.185	0.181	µg/L	2.19%	
Perfluorohexane sulfonic acid	1.00	12.7	12.5	µg/L	1.59%	
Perfluorooctanoic acid	2.00	3.82	3.84	µg/L	0.52%	
Perfluorooctane sulfonic acid	1.00	1.5	1.57	µg/L	4.56%	
Samples PLTSB-SO-010 and PLTSB-SO-011						
Perfluorohexane sulfonic acid	11	6.06 J	6.43	µg/kg	5.92%	
Perfluorooctane sulfonic acid	11	34.4	40.7	µg/kg	16.78%	
Samples PLTSB-SO-032 and PLTSB-SO-033						
Perfluorohexane sulfonic acid	12	21.8	20.1	µg/kg	8.11%	
Perfluorooctanoic acid	24	13.7 J	12.1 J	µg/kg	12.40%	
Perfluorooctane sulfonic acid	240	1870	1810	µg/kg	3.26%	
Samples PLTSB-SO-054 and PLTSB-SO-055						
Perfluorooctane sulfonic acid	210	2010	2170	µg/kg	7.66%	
Perfluorohexane sulfonic acid	10	19.1	19.7	µg/kg	3.09%	

Table 3
Field Duplicate Detections
Plattsburgh Air Force Base, New York

Analyte	LOQ	Primary Sample	Field Duplicate	Units	RPD	Notes
Samples PLTSB-SO-065 and PLTSB-SO-066						
No Detections						
Samples PLTSB-SO-083 and PLTSB-SO-084						
No Detections						
Samples PLTSB-SO-043 and PLTSB-SO-044						
No Detections						
Samples PLTSB-SO-070 and PLTSB-SO-071						
No Detections						
Samples PLTSB-SO-021 and PLTSB-SO-022						
No Detections						

Notes:
µg/kg = micrograms per kilogram
µg/L = micrograms per liter
LOQ = Limit of Quantitation
RPD = Relative Percent Difference

APPENDIX E

LABORATORY ANALYTICAL REPORTS

(CD-ROM)

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Southeast
ACCUTEST LABORATORIES

Reissue #1
10/27/14



Technical Report for

AMEC Environment & Infrastructure, Inc.

Plattsburgh AFB; Plattsburgh, NY

775290177

Accutest Job Number: FA18868

Sampling Dates: 10/01/14 - 10/02/14

Report to:

AMEC Environment & Infrastructure, Inc.

marie.bevier@amec.com

ATTN: Marie Bevier

Total number of pages in report: **74**

NELAP ACCREDITED TNI LABORATORY

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

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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October 23, 2014

Ms. Marie Bevier
AMEC Environment & Infrastructure
7376 SW Durham Rd.
Portland, OR 97224

RE: Accutest job FA18868 Reissue

Dear Ms. Bevier,

The final report for job number FA18868 has been edited to reflect the following corrections. These edits have been incorporated into the revised report.

A sample ID table has been added to the report.

Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE

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Sample Summary

AMEC Environment & Infrastructure, Inc.

Job No: FA18868

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18868-1	10/02/14	11:05	MW	10/03/14	AQ	Ground Water	PLTSB-GW-002
FA18868-2	10/01/14	17:20	MW	10/03/14	AQ	Ground Water	PLTSB-GW-003
FA18868-3	10/01/14	15:15	MW	10/03/14	AQ	Ground Water	PLTSB-GW-011
FA18868-4	10/01/14	17:10	MW	10/03/14	AQ	Ground Water	PLTSB-GW-012
FA18868-5	10/01/14	17:10	MW	10/03/14	AQ	Ground Water	PLTSB-GW-013
FA18868-6	10/01/14	16:10	MW	10/03/14	AQ	Ground Water	PLTSB-GW-017
FA18868-7	10/02/14	09:44	MW	10/03/14	AQ	Ground Water	PLTSB-GW-018
FA18868-8	10/02/14	09:58	MW	10/03/14	AQ	Ground Water	PLTSB-GW-019
FA18868-9	10/01/14	10:38	MW	10/03/14	AQ	Ground Water	PLTSB-GW-020
FA18868-10	10/01/14	14:45	MW	10/03/14	AQ	Ground Water	PLTSB-GW-021
FA18868-11	10/01/14	12:21	MW	10/03/14	AQ	Ground Water	PLTSB-GW-022
FA18868-12	10/01/14	12:21	MW	10/03/14	AQ	Ground Water	PLTSB-GW-023
FA18868-13	10/02/14	14:15	MW	10/03/14	AQ	Ground Water	PLTSB-EFF-001

Sample Summary
(continued)

AMEC Environment & Infrastructure, Inc.

Job No: FA18868

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA18868-14	10/02/14	14:15	MW	10/03/14	AQ	Ground Water	PLTSB-EFF-002
FA18868-15	10/02/14	12:40	MW	10/03/14	AQ	Ground Water	PLTSB-GW-001
FA18868-16	10/02/14	16:50	MW	10/03/14	AQ	Ground Water	PLTSB-GW-004
FA18868-17	10/02/14	16:50	MW	10/03/14	AQ	Ground Water	PLTSB-GW-005
FA18868-18	10/02/14	15:45	MW	10/03/14	AQ	Ground Water	PLTSB-GW-006
FA18868-19	10/02/14	16:20	MW	10/03/14	AQ	Ground Water	PLTSB-GW-014
FA18868-20	10/02/14	12:46	MW	10/03/14	AQ	Ground Water	PLTSB-GW-015
FA18868-21	10/02/14	11:11	MW	10/03/14	AQ	Ground Water	PLTSB-GW-016

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc. **Job No:** FA18868

Site: Plattsburgh AFB; Plattsburgh, NY **Report Date:** 10/16/2014 10:57:02

21 Sample(s) were collected on/between 10/01/2014 and 10/02/2014 and were received at Accutest SE on 10/03/2014 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA18868. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP53439

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18803-9MS, FA18803-9MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorooctanoic, Perfluorohexanesulfonic are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.
Matrix Spike Duplicate Recovery(s) for Perfluorooctanoic are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Perfluorooctanesulfonic acid are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP53439-BS have surrogates outside control limits.

OP53439-BS for 13C2-PFHxA: Outside control limits.

Matrix: AQ **Batch ID:** OP53456

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18868-13MS, FA18868-13MSD were used as the QC samples indicated.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s)) for Perfluorononanoic acid are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Perfluorooctanoic acid, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside For method performance in a clean matrix, refer to Blank Spike.
Sample(s) FA18868-16, FA18868-17, FA18868-19, OP53439-BS, OP53456-BS have surrogates outside control limits. Probable cause is due to matrix interference.

OP53456-BS for 13C2-PFHxA: Outside control limits.

FA18868-16 for 13C2-PFHxA: Outside control limits due to dilution.

FA18868-16 for 13C2-PFDA: Outside control limits due to dilution.

FA18868-17 for 13C2-PFHxA: Outside control limits due to dilution.

FA18868-17 for 13C2-PFDA: Outside control limits due to dilution.

FA18868-19 for 13C2-PFHxA: Outside control limits due to dilution.

FA18868-19 for 13C2-PFDA: Outside control limits due to dilution.

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

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: October 16, 2014

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA18868-1	MSSEMI	Q7386.D	13C2-PFDA, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-10	MSSEMI	Q7363.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-11	MSSEMI	Q7392.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-12	MSSEMI	Q7393.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-13	MSSEMI	Q7455.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-14	MSSEMI	Q7456.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-15	MSSEMI	Q7457.D	13C2-PFDA, Perfluorohexanesulfonic acid
FA18868-15	MSSEMI	Q7458.D	13C2-PFDA, Perfluorooctanesulfonic acid
FA18868-16	MSSEMI	Q7404.D	13C2-PFHxA
FA18868-16	MSSEMI	Q7459.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-17	MSSEMI	Q7460.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-18	MSSEMI	Q7461.D	Perfluorooctanoic acid
FA18868-19	MSSEMI	Q7409.D	Perfluorooctanoic acid
FA18868-19	MSSEMI	Q7462.D	Perfluorohexanesulfonic acid
FA18868-19	MSSEMI	Q7463.D	Perfluorooctanesulfonic acid
FA18868-20	MSSEMI	Q7464.D	Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-21	MSSEMI	Q7411.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
FA18868-3	MSSEMI	Q7354.D	Perfluorooctanoic acid
FA18868-4	MSSEMI	Q7357.D	Perfluorooctanesulfonic acid
FA18868-4	MSSEMI	Q7387.D	Perfluorohexanesulfonic acid, Perfluorooctanoic acid
FA18868-5	MSSEMI	Q7358.D	Perfluorooctanesulfonic acid
FA18868-5	MSSEMI	Q7388.D	13C2-PFDA, Perfluorohexanesulfonic acid, Perfluorooctanoic acid
FA18868-6	MSSEMI	Q7359.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-7	MSSEMI	Q7360.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-8	MSSEMI	Q7361.D	Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18868-8	MSSEMI	Q7394.D	Perfluorohexanesulfonic acid
FA18868-9	MSSEMI	Q7362.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP53439-BS	MSSEMI	Q7338.D	13C2-PFDA, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
OP53439-MB	MSSEMI	Q7339.D	13C2-PFDA
OP53439-MS	MSSEMI	Q7372.D	Perfluorohexanesulfonic acid, Perfluorohexanoic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP53439-MSD	MSSEMI	Q7373.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
OP53456-BS	MSSEMI	Q7390.D	13C2-PFDA, 13C2-PFHxA, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
OP53456-MB	MSSEMI	Q7391.D	13C2-PFDA
OP53456-MS	MSSEMI	Q7471.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP53456-MSD	MSSEMI	Q7472.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
SQ234-IC234	MSSEMI	Q6936.D	Perfluorooctanoic acid, Perfluoroundecanoic acid
SQ234-ICV234	MSSEMI	Q6945.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorotridecanoic acid, Perfluoroundecanoic acid
SQ249-CC234	MSSEMI	Q7337.D	13C2-PFDA, Perfluorodecanoic acid
SQ250-CC234	MSSEMI	Q7368.D	Perfluorodecanoic acid
SQ251-CC234	MSSEMI	Q7384.D	13C2-PFDA, Perfluorotetradecanoic acid, Perfluorotridecanoic acid
SQ251-CC234	MSSEMI	Q7395.D	Perfluorodecanoic acid, Perfluorotetradecanoic acid
SQ251-CC234	MSSEMI	Q7407.D	Perfluorotetradecanoic acid, Perfluorotridecanoic acid
SQ252-CC234	MSSEMI	Q7465.D	Perfluorononanoic acid

43 Manual Integrations were found for FA18868

Sample Location	Sample ID	Sample Date	Sample Depth	Lab ID
MW-GWOU-15	PLTSB-GW-001	10/02/14		FA18868-15
MW-GWOU-16	PLTSB-GW-002	10/02/14		FA18868-1
MW-GWOU-23	PLTSB-GW-003	10/01/14		FA18868-2
MW-GWOU-26	PLTSB-GW-004	10/02/14		FA18868-16
MW-GWOU-26	PLTSB-GW-005	10/02/14		FA18868-17
MW-GWOU-27	PLTSB-GW-006	10/02/14		FA18868-18
MW-02-010	PLTSB-GW-011	10/01/14		FA18868-3
MW-02-017	PLTSB-GW-012	10/01/04		FA18868-4
MW-02-017	PLTSB-GW-013	10/01/14		FA18868-5
MW-02-019	PLTSB-GW-014	10/02/14		FA18868-19
MW-02-046	PLTSB-GW-015	10/02/14		FA18868-20
MW-02-047	PLTSB-GW-016	10/02/14		FA18868-21
MW-02-073	PLTSB-GW-017	10/01/14		FA18868-6
MW-02-083	PLTSB-GW-018	10/02/14		FA18868-7
MW-02-084	PLTSB-GW-019	10/02/14		FA18868-8
MW-11-004	PLTSB-GW-020	10/01/14		FA18868-9
MW-11-008	PLTSB-GW-021	10/01/04		FA18868-10
MW-12-001R	PLTSB-GW-022	10/01/14		FA18868-11
MW-12-001R	PLTSB-GW-023	10/01/14		FA18868-12
PLTSB-FT002P-014	PLTSB-EFF-001	10/02/14		FA18868-13
PLTSB-FT002P-014	PLTSB-EFF-002	10/02/14		FA18868-14

Summary of Hits

Job Number: FA18868
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/01/14 thru 10/02/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18868-1	**PLTSB-GW-002**					
Perfluoroheptanoic acid		0.0109 J	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.0463	0.020	0.016	ug/l	EPA 537 MOD
FA18868-2	**PLTSB-GW-003**					
No hits reported in this sample.						
FA18868-3	**PLTSB-GW-011**					
Perfluoroheptanoic acid		0.00853 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0429	0.042	0.033	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.00928 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.241	0.021	0.017	ug/l	EPA 537 MOD
FA18868-4	**PLTSB-GW-012**					
Perfluoroheptanoic acid		0.0145 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.409 J	0.42	0.33	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0100 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		3.01	0.21	0.17	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.0104 J	0.021	0.017	ug/l	EPA 537 MOD
FA18868-5	**PLTSB-GW-013**					
Perfluoroheptanoic acid		0.0151 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.436	0.42	0.33	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.00989 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		3.24	0.21	0.17	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.0101 J	0.021	0.017	ug/l	EPA 537 MOD
FA18868-6	**PLTSB-GW-017**					
Perfluoroheptanoic acid		0.0351	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0386 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorononanoic acid		0.0105 J	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.234	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.337	0.020	0.016	ug/l	EPA 537 MOD
FA18868-7	**PLTSB-GW-018**					
Perfluorooctanoic acid		0.0241 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.0648	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.0116 J	0.020	0.016	ug/l	EPA 537 MOD

Summary of Hits

Job Number: FA18868
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/01/14 thru 10/02/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18868-8	**PLTSB-GW-019**					
Perfluoroheptanoic acid		0.0991	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.276	0.040	0.032	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0218	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.697	0.040	0.032	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.0709	0.020	0.016	ug/l	EPA 537 MOD
FA18868-9	**PLTSB-GW-020**					
Perfluoroheptanoic acid		0.00824 J	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0231 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.118	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.235	0.020	0.016	ug/l	EPA 537 MOD
FA18868-10	**PLTSB-GW-021**					
Perfluoroheptanoic acid		0.0167 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0283 J	0.042	0.033	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.114	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.301	0.021	0.017	ug/l	EPA 537 MOD
FA18868-11	**PLTSB-GW-022**					
Perfluorooctanoic acid		0.0204 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.116	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.348	0.020	0.016	ug/l	EPA 537 MOD
FA18868-12	**PLTSB-GW-023**					
Perfluorooctanoic acid		0.0202 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.113	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.361	0.020	0.016	ug/l	EPA 537 MOD
FA18868-13	**PLTSB-EFF-001**					
Perfluoroheptanoic acid		0.0998	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.419 J	0.42	0.33	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0320	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		1.29	0.21	0.17	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.410	0.21	0.17	ug/l	EPA 537 MOD

Summary of Hits

Job Number: FA18868
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/01/14 thru 10/02/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18868-14	**PLTSB-EFF-002**					
Perfluoroheptanoic acid		0.105	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.388	0.21	0.17	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0315	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		1.29	0.10	0.083	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.399	0.10	0.083	ug/l	EPA 537 MOD
FA18868-15	**PLTSB-GW-001**					
Perfluorooctanoic acid		0.0441	0.042	0.033	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.115	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.575	0.042	0.033	ug/l	EPA 537 MOD
FA18868-16	**PLTSB-GW-004**					
Perfluoroheptanoic acid		0.185	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		3.82	2.0	1.6	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.238	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		12.7	1.0	0.80	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		1.50	1.0	0.80	ug/l	EPA 537 MOD
FA18868-17	**PLTSB-GW-005**					
Perfluoroheptanoic acid		0.181	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		3.84	2.0	1.6	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.221	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		12.5	1.0	0.80	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		1.57	1.0	0.80	ug/l	EPA 537 MOD
FA18868-18	**PLTSB-GW-006**					
No hits reported in this sample.						
FA18868-19	**PLTSB-GW-014**					
Perfluoroheptanoic acid		0.0686	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.125	0.042	0.033	ug/l	EPA 537 MOD
Perfluorononanoic acid		0.119	0.021	0.017	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0285	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.762	0.21	0.17	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		20.7	4.2	3.3	ug/l	EPA 537 MOD

Summary of Hits

Job Number: FA18868
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/01/14 thru 10/02/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18868-20	**PLTSB-GW-015**					
Perfluoroheptanoic acid		0.00849 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0267 J	0.042	0.033	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.0483	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.0782	0.021	0.017	ug/l	EPA 537 MOD
FA18868-21	**PLTSB-GW-016**					
Perfluoroheptanoic acid		0.0404	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0861	0.042	0.033	ug/l	EPA 537 MOD
Perfluorononanoic acid		0.0156 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.0877	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.211	0.021	0.017	ug/l	EPA 537 MOD

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: PLTSB-GW-002
Lab Sample ID: FA18868-1
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/02/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7386.D	1	10/13/14	NAF	10/08/14	OP53439	SQ251
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0109	0.020	0.016	0.0080	ug/l	J
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0463	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	125%		70-130%
	13C2-PFDA	130%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-003		
Lab Sample ID:	FA18868-2	**Date Sampled:**	10/01/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7353.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	115%		70-130%
	13C2-PFDA	103%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-GW-011
Lab Sample ID: FA18868-3
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/01/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7354.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.00853	0.021	0.017	0.0083	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0429	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.00928	0.021	0.017	0.0083	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.241	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	107%		70-130%
	13C2-PFDA	112%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-GW-012
Lab Sample ID: FA18868-4
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/01/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7357.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7387.D	10	10/13/14	NAF	10/08/14	OP53439	SQ251

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0145	0.021	0.017	0.0083	ug/l	J
335-67-1	Perfluorooctanoic acid	0.409 [a]	0.42	0.33	0.17	ug/l	J
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0100	0.021	0.017	0.0083	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	3.01 [a]	0.21	0.17	0.083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0104	0.021	0.017	0.0083	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	114%	124%	70-130%
	13C2-PFDA	115%	127%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-013		
Lab Sample ID:	FA18868-5	**Date Sampled:**	10/01/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7358.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7388.D	10	10/13/14	NAF	10/08/14	OP53439	SQ251

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0151	0.021	0.017	0.0083	ug/l	J
335-67-1	Perfluorooctanoic acid	0.436 [a]	0.42	0.33	0.17	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.00989	0.021	0.017	0.0083	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	3.24 [a]	0.21	0.17	0.083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0101	0.021	0.017	0.0083	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	104%	121%	70-130%
	13C2-PFDA	98%	110%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-GW-017
Lab Sample ID: FA18868-6
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/01/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7359.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0351	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.0386	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.0105	0.020	0.016	0.0080	ug/l	J
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.234	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.337	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	109%		70-130%
	13C2-PFDA	99%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-GW-018
Lab Sample ID: FA18868-7
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/02/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7360.D	1	10/10/14	NAF	10/08/14	OP53439	SQ249
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.0241	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0648	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0116	0.020	0.016	0.0080	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	105%		70-130%
	13C2-PFDA	99%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-GW-019		
Lab Sample ID:	FA18868-8	**Date Sampled:**	10/02/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7361.D	1	10/10/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7394.D	2	10/13/14	NAF	10/08/14	OP53439	SQ251

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0991	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.276	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0218	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.697 [a]	0.040	0.032	0.016	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0709	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	113%	126%	70-130%
	13C2-PFDA	100%	113%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-020		
Lab Sample ID:	FA18868-9	**Date Sampled:**	10/01/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7362.D	1	10/10/14	NAF	10/08/14	OP53439	SQ249
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.00824	0.020	0.016	0.0080	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0231	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.118	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.235	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	111%		70-130%
	13C2-PFDA	97%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-GW-021
Lab Sample ID: FA18868-10
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/01/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7363.D	1	10/10/14	NAF	10/08/14	OP53439	SQ249
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0167	0.021	0.017	0.0083	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0283	0.042	0.033	0.017	ug/l	J
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.114	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.301	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	100%		70-130%
	13C2-PFDA	89%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-GW-022
Lab Sample ID: FA18868-11
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/01/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7392.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.0204	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.116	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.348	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	109%		70-130%
	13C2-PFDA	113%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-GW-023
Lab Sample ID: FA18868-12
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/01/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7393.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.0202	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.113	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.361	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	105%		70-130%
	13C2-PFDA	119%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-EFF-001		
Lab Sample ID:	FA18868-13	**Date Sampled:**	10/02/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7399.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2	Q7455.D	10	10/14/14	NAF	10/09/14	OP53456	SQ252

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0998	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.419 [a]	0.42	0.33	0.17	ug/l	J
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0320	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	1.29 [a]	0.21	0.17	0.083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.410 [a]	0.21	0.17	0.083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	124%	110%	70-130%
	13C2-PFDA	109%	78%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-EFF-002
Lab Sample ID: FA18868-14
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/02/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7402.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2	Q7456.D	5	10/14/14	NAF	10/09/14	OP53456	SQ252

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.105	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.388 [a]	0.21	0.17	0.083	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0315	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	1.29 [a]	0.10	0.083	0.042	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.399 [a]	0.10	0.083	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	124%	106%	70-130%
	13C2-PFDA	111%	77%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-001		
Lab Sample ID:	FA18868-15	**Date Sampled:**	10/02/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7457.D	1	10/14/14	NAF	10/09/14	OP53456	SQ252
Run #2	Q7458.D	2	10/14/14	NAF	10/09/14	OP53456	SQ252

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.0441	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.115	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.575 [a]	0.042	0.033	0.017	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	112%	129%	70-130%
	13C2-PFDA	89%	127%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-004		
Lab Sample ID:	FA18868-16	**Date Sampled:**	10/02/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7404.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2	Q7459.D	50	10/14/14	NAF	10/09/14	OP53456	SQ252

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.185	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	3.82 [a]	2.0	1.6	0.80	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.238	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	12.7 [a]	1.0	0.80	0.40	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	1.50 [a]	1.0	0.80	0.40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	130%	0% [b]	70-130%
	13C2-PFDA	101%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-005		
Lab Sample ID:	FA18868-17	**Date Sampled:**	10/02/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7405.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2	Q7460.D	50	10/14/14	NAF	10/09/14	OP53456	SQ252

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.181	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	3.84 [a]	2.0	1.6	0.80	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.221	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	12.5 [a]	1.0	0.80	0.40	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	1.57 [a]	1.0	0.80	0.40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	119%	0% [b]	70-130%
	13C2-PFDA	94%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-GW-006
Lab Sample ID: FA18868-18
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/02/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7461.D	1	10/14/14	NAF	10/09/14	OP53456	SQ252
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	110%		70-130%
	13C2-PFDA	99%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-GW-014		
Lab Sample ID:	FA18868-19	**Date Sampled:**	10/02/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7409.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2	Q7462.D	10	10/14/14	NAF	10/09/14	OP53456	SQ252
Run #3	Q7463.D	200	10/14/14	NAF	10/09/14	OP53456	SQ252

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml
Run #3	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0686	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.125	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.119	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0285	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.762 [a]	0.21	0.17	0.083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	20.7 [b]	4.2	3.3	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C2-PFHxA	122%	104%	0% [c]	70-130%
	13C2-PFDA	101%	81%	0% [c]	70-130%

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-015		
Lab Sample ID:	FA18868-20	**Date Sampled:**	10/02/14
Matrix:	AQ - Ground Water	**Date Received:**	10/03/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7464.D	1	10/14/14	NAF	10/09/14	OP53456	SQ252
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.00849	0.021	0.017	0.0083	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0267	0.042	0.033	0.017	ug/l	J
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0483	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0782	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	100%		70-130%
	13C2-PFDA	86%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-GW-016
Lab Sample ID: FA18868-21
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/02/14
Date Received: 10/03/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7411.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0404	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.0861	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.0156	0.021	0.017	0.0083	ug/l	J
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0877	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.211	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	119%		70-130%
	13C2-PFDA	102%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA18868

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Atten: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/2/2014
COC #: AC_10220142
PAGE: 1 OF 2

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)	RUSH	TOTAL BOTTLES	HOLD All Analyses
1	PLTSB-GW-002	10/02/14 11:05	GW	N	N	X			
2	PLTSB-GW-003	10/01/14 17:20	GW	N	N	X			
3	PLTSB-GW-011	10/01/14 15:15	GW	N	N	X			
4	PLTSB-GW-012	10/01/04 17:10	GW	N	N	X			
5	PLTSB-GW-013	10/01/14 17:10	GW	FD	N	X			
6	PLTSB-GW-017	10/01/14 16:10	GW	N	N	X			
7	PLTSB-GW-018	10/02/14 09:44	GW	N	N	X			
8	PLTSB-GW-019	10/02/14 09:58	GW	N	N	X			
9	PLTSB-GW-020	10/01/14 10:38	GW	N	N	X			
10	PLTSB-GW-021	10/01/04 14:45	GW	N	N	X			
11	PLTSB-GW-022	10/01/14 12:21	GW	N	Y	X			
12	PLTSB-GW-023	10/01/14 12:21	GW	FD	N	X			

Methods for Analysis

Sampler's Signature: Date: 10/1/14 Time: 1815

Relinquished By/Affiliation: Date: Time:

Received By: Date: Time:

Relinquished By/Affiliation: Date: 10-03-14 Time: 1030

Received By: Date: Time:

Relinquished By/Affiliation: Date: Time:

Received By (LAB): Date: Time:

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	3.2 °C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

5.1
5

FA18868: Chain of Custody
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FA18868

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Attn: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/2/2014
COC #: COC_ACCUTEST2
PAGE: 2 OF 2

Pease Intnl ARB

Sample Information						Methods for Analysis	RUSH		
No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)		TOTAL BOTTLES	HOLD All Analyses
1	PLTSB-EFF-001	10/02/14 14:15	GW	N	Y	X		13	
2	PLTSB-EFF-002	10/02/14 14:15	GW	FD	N	X		14	
3	PLTSB-GW-001	10/02/14 12:40	GW	N	N	X		15	
4	PLTSB-GW-004	10/02/14 16:50	GW	N	Y	X		16	
5	PLTSB-GW-005	10/02/14 16:50	GW	FD	N	X		17	
6	PLTSB-GW-006	10/02/14 15:45	GW	N	N	X		18	
7	PLTSB-GW-014	10/02/14 16:20	GW	N	N	X		19	
8	PLTSB-GW-015	10/02/14 12:46	GW	N	N	X		20	
9	PLTSB-GW-016	10/02/14 11:11	GW	N	N	X		21	
10									
11									
12									

Sampler's Signature: Date: 10/2/14 Time: 0815

Relinquished By/Affiliation: Date: Time:

Received By: Date: Time:

Relinquished By/Affiliation: Date: Time:

Received By: Date: 10.03.14 Time: 1030

Relinquished By/Affiliation: Date: Time:

Received By (LAB): Date: Time:

For Lab Use

Does COC match samples: Y or N
Broken Container: Y or N
COC seal intact: Y or N
Other problems: Y or N
WSDOT contacted: Y or N
Date contacted:

Cooler Temperature at receipt: C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

FA18868: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA18868 CLIENT: AMEC PROJECT: Platts burgh AFB

DATE/TIME RECEIVED: 10-03-14 1030 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8063 1884 2384

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

~~NUMBER OF ENCORES ? 25-GRAM~~ ____ ~~5-GRAM~~ ____

NUMBER OF 5035 FIELD KITS ? ____

NUMBER OF LAB FILTERED METALS ? ____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

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

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

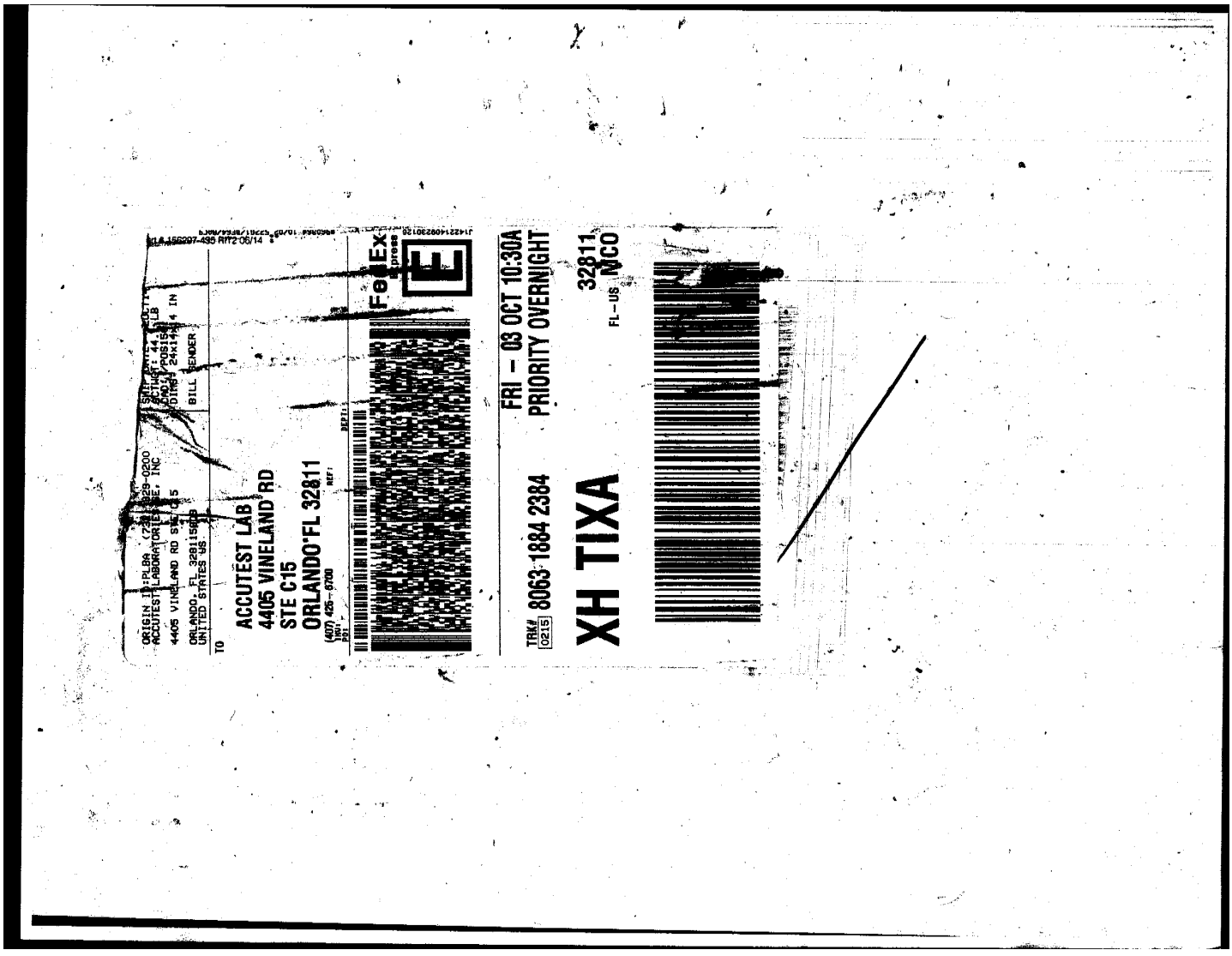
SUMMARY OF COMMENTS: Samples 4,11,13,16 6 Bottles MS/MSD

TECHNICIAN SIGNATURE/DATE: [signature] 10-03-14 REVIEWER SIGNATURE/DATE: [signature] 10-3-14

RS 04/14 receipt confirmation 041514.xls

5.1 5

FA18868: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53439-MB	Q7339.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18868-1, FA18868-2, FA18868-3, FA18868-4, FA18868-5, FA18868-6, FA18868-7, FA18868-8, FA18868-9, FA18868-10

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	125%	70-130%
	13C2-PFDA	120%	70-130%

Method Blank Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53456-MB	Q7391.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18868-11, FA18868-12, FA18868-13, FA18868-14, FA18868-15, FA18868-16, FA18868-17, FA18868-18, FA18868-19, FA18868-20, FA18868-21

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	128%	70-130%
	13C2-PFDA	128%	70-130%

Blank Spike Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53439-BS	Q7338.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18868-1, FA18868-2, FA18868-3, FA18868-4, FA18868-5, FA18868-6, FA18868-7, FA18868-8, FA18868-9, FA18868-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.150	94	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.162	101	70-130
375-95-1	Perfluorononanoic acid	0.16	0.169	106	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.201	126	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.180	113	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.154	96	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	136%* [a]	70-130%
	13C2-PFDA	129%	70-130%

(a) Outside control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53456-BS	Q7390.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18868-11, FA18868-12, FA18868-13, FA18868-14, FA18868-15, FA18868-16, FA18868-17, FA18868-18, FA18868-19, FA18868-20, FA18868-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.157	98	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.165	103	70-130
375-95-1	Perfluorononanoic acid	0.16	0.184	115	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.199	124	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.186	116	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.175	109	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	139%* [a]	70-130%
	13C2-PFDA	130%	70-130%

(a) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53439-MS	Q7372.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250
OP53439-MSD	Q7373.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250
FA18803-9	Q7342.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
FA18803-9	Q7371.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18868-1, FA18868-2, FA18868-3, FA18868-4, FA18868-5, FA18868-6, FA18868-7, FA18868-8, FA18868-9, FA18868-10

CAS No.	Compound	FA18803-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.0893		0.16	0.226	85	0.16	0.233	90	3	70-130/30
335-67-1	Perfluorooctanoic acid	0.413	b	0.16	0.460	29*	a 0.16	0.485	45*	a 5	70-130/30
375-95-1	Perfluorononanoic acid	0.020	U	0.16	0.173	108	0.16	0.176	110	2	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.0319		0.16	0.218	116	0.16	0.212	113	3	70-130/30
355-46-4	Perfluorohexanesulfonic acid	1.24	b	0.16	1.30	38*	a 0.16	1.38	87	6	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.188	b	0.16	0.433	153*	0.16	0.468	175*	8	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18803-9	FA18803-9	Limits
	13C2-PFHxA	115%	118%	115%	136%* c	70-130%
	13C2-PFDA	87%	87%	103%	84%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53456-MS	Q7471.D	10	10/14/14	NAF	10/09/14	OP53456	SQ252
OP53456-MSD	Q7472.D	10	10/14/14	NAF	10/09/14	OP53456	SQ252
FA18868-13	Q7399.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
FA18868-13	Q7455.D	10	10/14/14	NAF	10/09/14	OP53456	SQ252

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18868-11, FA18868-12, FA18868-13, FA18868-14, FA18868-15, FA18868-16, FA18868-17, FA18868-18, FA18868-19, FA18868-20, FA18868-21

CAS No.	Compound	FA18868-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.0998		0.16	0.238	86	0.16	0.229	81	4	70-130/30
335-67-1	Perfluorooctanoic acid	0.419 [b]	J	0.16	0.588	106	0.16	0.529	69* [a]	11	70-130/30
375-95-1	Perfluorononanoic acid	0.021	U	0.16	0.233	146*	0.16	0.224	140*	4	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.0320		0.16	0.183	94	0.16	0.175	89	4	70-130/30
355-46-4	Perfluorohexanesulfonic acid	1.29 [b]		0.16	1.47	113	0.16	1.33	25* [a]	10	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.410 [b]		0.16	0.577	104	0.16	0.510	63* [a]	12	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18868-13	FA18868-13	Limits
	13C2-PFHxA	103%	106%	124%	110%	70-130%
	13C2-PFDA	89%	89%	109%	78%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ249-CC234	**Injection Date:**	10/09/14
Lab File ID:	Q7337.D	**Injection Time:**	16:37
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	35261	5.90	16769	6.49	26820	9.60
Upper Limit [c]	57426	6.90	22568	7.49	39822	10.60
Lower Limit [d]	19142	4.90	7523	5.49	13274	8.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53439-BS	34892	5.90	15958	6.49	26231	9.60
OP53439-MB	38895	5.91	17602	6.49	28515	9.60
ZZZZZZ	36206	5.91	16314	6.51	26539	9.60
ZZZZZZ	37606	5.90	17134	6.49	28257	9.58
FA18803-9	35376	5.91	16316	6.51	27550	9.61
ZZZZZZ	35651	5.91	16263	6.51	27482	9.62
ZZZZZZ	37695	5.91	16520	6.51	27999	9.62
ZZZZZZ	37222	5.91	16796	6.51	28501	9.62

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ249-CC234	**Injection Date:**	10/09/14
Lab File ID:	Q7348.D	**Injection Time:**	20:10
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	40639	5.92	18408	6.52	30877	9.63
Upper Limit [c]	57426	6.92	22568	7.52	39822	10.63
Lower Limit [d]	19142	4.92	7523	5.52	13274	8.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	41622	5.92	17930	6.52	30417	9.62
ZZZZZZ	40746	5.91	18750	6.52	32910	9.63
FA18868-2	43118	5.92	18894	6.52	30743	9.63
FA18868-3	37391	5.91	16983	6.52	28619	9.63

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ249-CC234	**Injection Date:**	10/09/14
Lab File ID:	Q7355.D	**Injection Time:**	22:24
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	43099	5.92	19738	6.52	32602	9.65
Upper Limit [c]	57426	6.92	22568	7.52	39822	10.65
Lower Limit [d]	19142	4.92	7523	5.52	13274	8.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18868-4	38575	5.92	17756	6.52	29084	9.65
FA18868-5	36449	5.92	16543	6.52	27836	9.65
FA18868-6	42970	5.92	18224	6.52	31751	9.66
FA18868-7	45373	5.92	19648	6.53	32169	9.66
FA18868-8	37323	5.92	16741	6.53	27975	9.66
FA18868-9	40551	5.92	16922	6.53	28488	9.66
FA18868-10	43643	5.92	18268	6.53	30657	9.67
SQ249-ECC234	46152	5.93	21094	6.53	34324	9.67

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ250-CC234	**Injection Date:**	10/10/14
Lab File ID:	Q7368.D	**Injection Time:**	10:21
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	34168	5.87	16458	6.44	27206	9.48
Upper Limit [c]	57426	6.87	22568	7.44	39822	10.48
Lower Limit [d]	19142	4.87	7523	5.44	13274	8.48

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	36932	5.86	16862	6.43	27546	9.45
FA18803-9	31942	5.86	17086	6.42	28266	9.45
OP53439-MS	38578	5.86	16913	6.42	28383	9.43
OP53439-MSD	36674	5.86	16303	6.42	27837	9.43
ZZZZZZ	37606	5.86	16508	6.42	28255	9.43
ZZZZZZ	36245	5.86	15918	6.42	27419	9.43
ZZZZZZ	36960	5.85	16144	6.42	28318	9.42
SQ250-ECC234	35078	5.85	15748	6.41	27682	9.42

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/13/14
Lab File ID:	Q7384.D	**Injection Time:**	10:07
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	32184	5.91	17113	6.51	23355	9.76
Upper Limit [c]	57426	6.91	22568	7.51	39822	10.76
Lower Limit [d]	19142	4.91	7523	5.51	13274	8.76

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	34342	5.91	17419	6.49	23600	9.75
FA18868-1	33031	5.90	16411	6.49	23267	9.73
FA18868-4	34884	5.90	17463	6.49	24923	9.73
FA18868-5	34577	5.90	17242	6.48	25313	9.72
OP53456-BS	29786	5.88	14704	6.48	24276	9.70
OP53456-MB	29565	5.88	14638	6.48	22670	9.69
FA18868-11	32007	5.87	14536	6.47	25158	9.69
FA18868-12	29831	5.88	13641	6.48	23908	9.79
FA18868-8	31673	5.88	15978	6.48	25983	9.61

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/13/14
Lab File ID:	Q7395.D	**Injection Time:**	13:50
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	32938	5.88	16778	6.47	27479	9.77
Upper Limit [c]	57426	6.88	22568	7.47	39822	10.77
Lower Limit [d]	19142	4.88	7523	5.47	13274	8.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18868-13	29883	5.88	14768	6.48	25675	9.76
FA18868-14	30613	5.88	15225	6.47	26480	9.75
FA18868-16	20052	5.85	8642	6.44	25852	9.70
FA18868-17	20208	5.83	8658	6.42	25778	9.65

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/13/14
Lab File ID:	Q7407.D	**Injection Time:**	17:41
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	34247	5.87	16856	6.46	29210	9.69
Upper Limit [c]	57426	6.87	22568	7.46	39822	10.69
Lower Limit [d]	19142	4.87	7523	5.46	13274	8.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18868-19	31355	5.87	10357	6.44	27950	9.71
FA18868-21	33714	5.87	15993	6.46	27339	9.70
ZZZZZZ	33194	5.88	15697	6.47	26223	9.70
ZZZZZZ	34709	5.88	16236	6.47	28056	9.71
ZZZZZZ	39315	5.88	18774	6.47	31479	9.71

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ252-CC234	**Injection Date:**	10/14/14
Lab File ID:	Q7454.D	**Injection Time:**	16:17
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	26944	5.83	12630	6.41	22603	9.48
Upper Limit [c]	57426	6.83	22568	7.41	39822	10.48
Lower Limit [d]	19142	4.83	7523	5.41	13274	8.48

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18868-13	27907	5.83	13046	6.41	25416	9.52
FA18868-14	27405	5.83	12689	6.41	24936	9.52
FA18868-15	26096	5.83	11325	6.39	22433	9.52
FA18868-15	24875	5.83	11232	6.41	16165	9.55
FA18868-16	26613	5.83	12874	6.41	24916	9.53
FA18868-17	27969	5.83	13603	6.42	25751	9.56
FA18868-18	29805	5.85	13434	6.42	26027	9.56
FA18868-19	29235	5.85	12495	6.42	25874	9.57
FA18868-19	29862	5.85	13842	6.42	25455	9.57
FA18868-20	27606	5.85	12408	6.42	23040	9.57

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ252-CC234	**Injection Date:**	10/14/14
Lab File ID:	Q7465.D	**Injection Time:**	19:50
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	27426	5.85	13558	6.43	24685	9.59
Upper Limit [c]	57426	6.85	22568	7.43	39822	10.59
Lower Limit [d]	19142	4.85	7523	5.43	13274	8.59

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	27656	5.86	12542	6.43	23083	9.40
OP53456-MS	30298	5.86	14378	6.43	25762	9.60
OP53456-MSD	28820	5.86	13638	6.43	24722	9.61

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Surrogate Recovery Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18868-1	Q7386.D	125	130
FA18868-2	Q7353.D	115	103
FA18868-3	Q7354.D	107	112
FA18868-4	Q7387.D	124	127
FA18868-4	Q7357.D	114	115
FA18868-5	Q7388.D	121	110
FA18868-5	Q7358.D	104	98
FA18868-6	Q7359.D	109	99
FA18868-7	Q7360.D	105	99
FA18868-8	Q7394.D	126	113
FA18868-8	Q7361.D	113	100
FA18868-9	Q7362.D	111	97
FA18868-10	Q7363.D	100	89
FA18868-11	Q7392.D	109	113
FA18868-12	Q7393.D	105	119
FA18868-13	Q7455.D	110	78
FA18868-13	Q7399.D	124	109
FA18868-14	Q7456.D	106	77
FA18868-14	Q7402.D	124	111
FA18868-15	Q7457.D	112	89
FA18868-15	Q7458.D	129	127
FA18868-16	Q7459.D	0* [a]	0* [a]
FA18868-16	Q7404.D	130	101
FA18868-17	Q7460.D	0* [a]	0* [a]
FA18868-17	Q7405.D	119	94
FA18868-18	Q7461.D	110	99
FA18868-19	Q7462.D	104	81
FA18868-19	Q7463.D	0* [a]	0* [a]
FA18868-19	Q7409.D	122	101
FA18868-20	Q7464.D	100	86
FA18868-21	Q7411.D	119	102
OP53439-BS	Q7338.D	136* [b]	129
OP53439-MB	Q7339.D	125	120
OP53439-MS	Q7372.D	115	87
OP53439-MSD	Q7373.D	118	87
OP53456-BS	Q7390.D	139* [b]	130
OP53456-MB	Q7391.D	128	128
OP53456-MS	Q7471.D	103	89
OP53456-MSD	Q7472.D	106	89

Semivolatile Surrogate Recovery Summary

Job Number: FA18868
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits

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

(a) Outside control limits due to dilution.
(b) Outside control limits.

Initial Calibration Summary

Job Number: FA18868 **Sample:** SQ234-ICC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6939.D
Project: Plattsburgh AFB; Plattsburgh, NY

Initial Calibration ReSponse Factors - D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID : Calibration File
1 : D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2 : D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3 : D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4 : D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5 : D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6 : D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7 : D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Compound	1	2	3	4	5	6	7	AvgRF	%RSD	r^2
2) 13C2-PFDoDA	ISTD									
1) 13C2-PFDA	1.4694	1.2705	1.3641	1.3573	1.2782	1.1995	1.1677	1.3010	8.002	0.9925
8) PFDA	1.3529	1.1705	1.2774	1.2682	1.2016	1.1239	1.0824	1.2110	7.811	0.9913
9) PFDoDA	0.9528	0.9350	0.8811	0.8914	0.8903	0.8623	0.8657	0.8969	3.827	0.9994
10) PFDS	0.2240	0.2180	0.2018	0.2025	0.1985	0.1920	0.1929	0.2043	5.996	0.9989
19) PFTeDA	0.7532	0.6581	0.5739	0.5913	0.5950	0.5845	0.5932	0.6213	10.333	0.9994
20) PFTrDA	0.8594	0.8431	0.7924	0.7963	0.7967	0.7777	0.7789	0.8063	3.964	0.9999
21) PFUnDA	1.4969	1.2243	1.1198	1.0728	1.0513	1.0110	1.0658	1.1489	14.603	0.9948
4) 13C2-PFOA	ISTD									
3) 13C2-PFHxA	0.3285	0.3294	0.3113	0.3056	0.3013	0.2929	0.2943	0.3090	4.856	0.9992
6) PFBA	0.2472	0.2443	0.2374	0.2319	0.2354	0.2301	0.2321	0.2369	2.771	0.9998
11) PFHpA	0.4292	0.3812	0.3486	0.3311	0.3247	0.3126	0.3091	0.3481	12.464	0.9994
13) PFHxA	0.3782	0.3737	0.3488	0.3465	0.3428	0.3331	0.3339	0.3510	5.150	0.9992
15) PFNA	0.5906	0.5169	0.4639	0.4647	0.4599	0.4509	0.4500	0.4853	10.660	0.9996
16) PFOA	1.3992	1.1606	1.0285	1.0005	0.9828	0.9625	0.9647	1.0713	14.922	0.9959
18) PFPeA	0.1233	0.1212	0.1155	0.1139	0.1149	0.1115	0.1146	0.1164	3.645	0.9995
5) 13C4-PFOS	ISTD									
7) PFBS	0.4070	0.3735	0.3399	0.3254	0.3260	0.3064	0.3165	0.3421	10.450	0.9975
12) PFHpS	0.6380	0.6341	0.6144	0.5989	0.6054	0.5816	0.5927	0.6093	3.437	0.9993
14) PFHxS	0.6360	0.5636	0.5422	0.5072	0.5081	0.4775	0.4990	0.5334	10.027	0.9974
17) PFOS	1.3645	1.1081	1.0077	0.9890	0.9834	0.9433	0.9543	1.0500	14.167	0.9965

*(value) - Average RF below (value)

Initial Calibration Verification

Job Number: FA18868 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6944.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6944
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	# -100.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	# -100.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.367	1.8	101.8
PFBS	20.000	21.501	7.5	107.5
PFDA	20.000	21.272	6.4	106.4
PFDoDA	20.000	21.331	6.7	106.7
PFDS	20.000	21.521	7.6	107.6
PFHpA	20.000	20.021	0.1	100.1
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	20.765	3.8	103.8
PFHxS	20.000	21.704	8.5	108.5
PFNA	20.000	20.123	0.6	100.6
PFOA	20.000	20.065	0.3	100.3
PFOS	20.000	20.717	3.6	103.6
PFPeA	20.000	20.410	2.1	102.1
PFTeDA	20.000	22.398	12.0	112.0
PFTrDA	20.000	20.605	3.0	103.0
PFUnDA	20.000	20.271	1.4	101.4

CC Criteria: +/- 25%

Initial Calibration Verification

Job Number: FA18868 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6945.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6945
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	0.000	0.0	0.0
PFBS	20.000	24.861	24.3	124.3
PFDA	20.000	0.000	0.0	0.0
PFDoDA	20.000	0.000	0.0	0.0
PFDS	20.000	0.000	0.0	0.0
PFHpA	20.000	18.993	-5.0	95.0
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	0.000	0.0	0.0
PFHxS	20.000	23.899	19.5	119.5
PFNA	20.000	21.584	7.9	107.9
PFOA	20.000	19.090	-4.5	95.5
PFOS	20.000	20.549	2.7	102.7
PFPeA	20.000	0.000	0.0	0.0
PFTeDA	20.000	0.000	0.0	0.0
PFTrDA	20.000	0.000	0.0	0.0
PFUnDA	20.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ249-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7337.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1009_PFC_SQ249\SQ249.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7337
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.083	-4.6	95.4
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.780	8.9	108.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.986	19.9	119.9
PFBS	20.000	20.473	2.4	102.4
PFDA	20.000	20.371	1.9	101.9
PFDoDA	20.000	21.482	7.4	107.4
PFDS	20.000	24.981	24.9	124.9
PFHpA	20.000	19.842	-0.8	99.2
PFHpS	20.000	19.719	-1.4	98.6
PFHxA	20.000	21.623	8.1	108.1
PFHxS	20.000	19.563	-2.2	97.8
PFNA	20.000	19.683	-1.6	98.4
PFOA	20.000	20.024	0.1	100.1
PFOS	20.000	19.674	-1.6	98.4
PFPeA	20.000	22.772	13.9	113.9
PFTeDA	20.000	18.478	-7.6	92.4
PFTrDA	20.000	21.602	8.0	108.0
PFUnDA	20.000	16.455	-17.7	82.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ249-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7348.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1009_PFC_SQ249\SQ249.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7348
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	20.757	3.8	103.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.436	-2.8	97.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.687	8.4	108.4
PFBS	20.000	19.373	-3.1	96.9
PFDA	20.000	21.959	9.8	109.8
PFDoDA	20.000	21.438	7.2	107.2
PFDS	20.000	24.713	23.6	123.6
PFHpA	20.000	18.922	-5.4	94.6
PFHpS	20.000	20.019	0.1	100.1
PFHxA	20.000	19.474	-2.6	97.4
PFHxS	20.000	19.277	-3.6	96.4
PFNA	20.000	21.132	5.7	105.7
PFOA	20.000	19.783	-1.1	98.9
PFOS	20.000	19.721	-1.4	98.6
PFPeA	20.000	21.115	5.6	105.6
PFTeDA	20.000	18.287	-8.6	91.4
PFTrDA	20.000	21.655	8.3	108.3
PFUnDA	20.000	16.909	-15.5	84.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ249-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7355.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1009_PFC_SQ249\SQ249.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7355
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	20.098	0.5	100.5
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.631	-1.8	98.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.769	8.8	108.8
PFBS	20.000	19.158	-4.2	95.8
PFDA	20.000	20.776	3.9	103.9
PFDoDA	20.000	21.364	6.8	106.8
PFDS	20.000	24.581	22.9	122.9
PFHpA	20.000	18.916	-5.4	94.6
PFHpS	20.000	19.652	-1.7	98.3
PFHxA	20.000	19.523	-2.4	97.6
PFHxS	20.000	19.034	-4.8	95.2
PFNA	20.000	21.309	6.5	106.5
PFOA	20.000	19.539	-2.3	97.7
PFOS	20.000	19.444	-2.8	97.2
PFPeA	20.000	20.917	4.6	104.6
PFTeDA	20.000	18.096	-9.5	90.5
PFTrDA	20.000	21.748	8.7	108.7
PFUnDA	20.000	17.027	-14.9	85.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ249-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7364.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1009_PFC_SQ249\SQ249.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7364
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.516	-2.4	97.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.237	-3.8	96.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.846	9.2	109.2
PFBS	20.000	18.843	-5.8	94.2
PFDA	20.000	21.006	5.0	105.0
PFDoDA	20.000	21.229	6.1	106.1
PFDS	20.000	25.024	# 25.1	125.1
PFHpA	20.000	19.036	-4.8	95.2
PFHpS	20.000	19.553	-2.2	97.8
PFHxA	20.000	19.070	-4.6	95.4
PFHxS	20.000	19.313	-3.4	96.6
PFNA	20.000	21.437	7.2	107.2
PFOA	20.000	19.752	-1.2	98.8
PFOS	20.000	19.568	-2.2	97.8
PFPeA	20.000	20.988	4.9	104.9
PFTeDA	20.000	17.745	-11.3	88.7
PFTrDA	20.000	21.726	8.6	108.6
PFUnDA	20.000	16.920	-15.4	84.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ250-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7368.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1010_PFC_SQ250\SQ250.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7368
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.183	-19.1	80.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	22.211	11.1	111.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	25.383	# 26.9	126.9
PFBS	20.000	21.006	5.0	105.0
PFDA	20.000	15.580	-22.1	77.9
PFDoDA	20.000	21.846	9.2	109.2
PFDS	20.000	28.537	# 42.7	142.7
PFHpA	20.000	21.301	6.5	106.5
PFHpS	20.000	21.092	5.5	105.5
PFHxA	20.000	22.267	11.3	111.3
PFHxS	20.000	20.707	3.5	103.5
PFNA	20.000	21.202	6.0	106.0
PFOA	20.000	21.291	6.5	106.5
PFOS	20.000	20.838	4.2	104.2
PFPeA	20.000	24.066	20.3	120.3
PFTeDA	20.000	15.330	-23.3	76.7
PFTrDA	20.000	21.448	7.2	107.2
PFUnDA	20.000	29.897	# 49.5	149.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ250-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7379.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1010_PFC_SQ250\SQ250.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7379
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.257	-3.7	96.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.332	6.7	106.7
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	24.156	20.8	120.8
PFBS	20.000	20.927	4.6	104.6
PFDA	20.000	14.757	# -26.2	73.8
PFDoDA	20.000	22.300	11.5	111.5
PFDS	20.000	26.327	# 31.6	131.6
PFHpA	20.000	20.906	4.5	104.5
PFHpS	20.000	20.776	3.9	103.9
PFHxA	20.000	21.056	5.3	105.3
PFHxS	20.000	20.604	3.0	103.0
PFNA	20.000	23.500	17.5	117.5
PFOA	20.000	21.306	6.5	106.5
PFOS	20.000	21.071	5.4	105.4
PFPeA	20.000	22.352	11.8	111.8
PFTeDA	20.000	18.274	-8.6	91.4
PFTrDA	20.000	25.675	# 28.4	128.4
PFUnDA	20.000	18.850	-5.7	94.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7384.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7384
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	24.673	23.4	123.4
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	22.190	11.0	111.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.549	17.7	117.7
PFBS	20.000	20.025	0.1	100.1
PFDA	20.000	26.748	# 33.7	133.7
PFDoDA	20.000	22.221	11.1	111.1
PFDS	20.000	30.767	# 53.8	153.8
PFHpA	20.000	20.437	2.2	102.2
PFHpS	20.000	19.820	-0.9	99.1
PFHxA	20.000	21.972	9.9	109.9
PFHxS	20.000	19.690	-1.6	98.4
PFNA	20.000	21.980	9.9	109.9
PFOA	20.000	20.871	4.4	104.4
PFOS	20.000	20.354	1.8	101.8
PFPeA	20.000	23.411	17.1	117.1
PFTeDA	20.000	15.077	-24.6	75.4
PFTrDA	20.000	17.328	-13.4	86.6
PFUnDA	20.000	16.800	-16.0	84.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7395.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7395
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	21.563	7.8	107.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.051	5.3	105.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.845	19.2	119.2
PFBS	20.000	20.868	4.3	104.3
PFDA	20.000	23.458	17.3	117.3
PFDoDA	20.000	22.539	12.7	112.7
PFDS	20.000	26.178	# 30.9	130.9
PFHpA	20.000	20.314	1.6	101.6
PFHpS	20.000	20.146	0.7	100.7
PFHxA	20.000	21.048	5.2	105.2
PFHxS	20.000	20.048	0.2	100.2
PFNA	20.000	23.147	15.7	115.7
PFOA	20.000	20.732	3.7	103.7
PFOS	20.000	20.317	1.6	101.6
PFPeA	20.000	22.627	13.1	113.1
PFTeDA	20.000	18.276	-8.6	91.4
PFTrDA	20.000	21.230	6.2	106.2
PFUnDA	20.000	17.121	-14.4	85.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7407.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7407
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.248	-3.8	96.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.606	3.0	103.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.660	18.3	118.3
PFBS	20.000	20.633	3.2	103.2
PFDA	20.000	20.953	4.8	104.8
PFDoDA	20.000	22.021	10.1	110.1
PFDS	20.000	24.536	22.7	122.7
PFHpA	20.000	19.828	-0.9	99.1
PFHpS	20.000	20.271	1.4	101.4
PFHxA	20.000	20.239	1.2	101.2
PFHxS	20.000	20.350	1.8	101.8
PFNA	20.000	23.636	18.2	118.2
PFOA	20.000	20.749	3.7	103.7
PFOS	20.000	20.525	2.6	102.6
PFPeA	20.000	21.973	9.9	109.9
PFTeDA	20.000	18.126	-9.4	90.6
PFTrDA	20.000	19.519	-2.4	97.6
PFUnDA	20.000	17.286	-13.6	86.4

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7418.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7418
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.914	-5.4	94.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.652	-1.7	98.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.953	14.8	114.8
PFBS	20.000	20.172	0.9	100.9
PFDA	20.000	20.566	2.8	102.8
PFDoDA	20.000	22.121	10.6	110.6
PFDS	20.000	25.348	# 26.7	126.7
PFHpA	20.000	19.164	-4.2	95.8
PFHpS	20.000	19.934	-0.3	99.7
PFHxA	20.000	19.669	-1.7	98.3
PFHxS	20.000	20.446	2.2	102.2
PFNA	20.000	23.834	19.2	119.2
PFOA	20.000	20.877	4.4	104.4
PFOS	20.000	20.463	2.3	102.3
PFPeA	20.000	21.579	7.9	107.9
PFTeDA	20.000	19.205	-4.0	96.0
PFTrDA	20.000	23.709	18.5	118.5
PFUnDA	20.000	17.516	-12.4	87.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ252-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7454.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1014_PFC_SQ252\SQ252.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7454
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.837	-15.8	84.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.724	-11.4	88.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.549	-12.3	87.7
PFBS	20.000	17.981	-10.1	89.9
PFDA	20.000	15.116	-24.4	75.6
PFDoDA	20.000	21.367	6.8	106.8
PFDS	20.000	24.242	21.2	121.2
PFHpA	20.000	18.445	-7.8	92.2
PFHpS	20.000	18.828	-5.9	94.1
PFHxA	20.000	17.795	-11.0	89.0
PFHxS	20.000	18.508	-7.5	92.5
PFNA	20.000	26.924	# 34.6	134.6
PFOA	20.000	20.628	3.1	103.1
PFOS	20.000	19.732	-1.3	98.7
PFPeA	20.000	18.238	-8.8	91.2
PFTeDA	20.000	23.328	16.6	116.6
PFTrDA	20.000	24.562	22.8	122.8
PFUnDA	20.000	17.960	-10.2	89.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ252-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7465.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1014_PFC_SQ252\SQ252.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7465
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.627	-16.9	83.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.537	-12.3	87.7
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.997	-15.0	85.0
PFBS	20.000	16.863	-15.7	84.3
PFDA	20.000	15.626	-21.9	78.1
PFDoDA	20.000	21.144	5.7	105.7
PFDS	20.000	23.399	17.0	117.0
PFHpA	20.000	17.907	-10.5	89.5
PFHpS	20.000	18.468	-7.7	92.3
PFHxA	20.000	17.577	-12.1	87.9
PFHxS	20.000	18.061	-9.7	90.3
PFNA	20.000	24.796	24.0	124.0
PFOA	20.000	20.059	0.3	100.3
PFOS	20.000	19.566	-2.2	97.8
PFPeA	20.000	17.201	-14.0	86.0
PFTeDA	20.000	20.093	0.5	100.5
PFTrDA	20.000	23.035	15.2	115.2
PFUnDA	20.000	16.508	-17.5	82.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18868 **Sample:** SQ252-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7474.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1014_PFC_SQ252\SQ252.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7474
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.641	-11.8	88.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.554	-12.2	87.8
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.944	-10.3	89.7
PFBS	20.000	17.075	-14.6	85.4
PFDA	20.000	16.993	-15.0	85.0
PFDoDA	20.000	21.685	8.4	108.4
PFDS	20.000	24.251	21.3	121.3
PFHpA	20.000	18.563	-7.2	92.8
PFHpS	20.000	19.035	-4.8	95.2
PFHxA	20.000	17.222	-13.9	86.1
PFHxS	20.000	18.539	-7.3	92.7
PFNA	20.000	24.956	24.8	124.8
PFOA	20.000	20.141	0.7	100.7
PFOS	20.000	19.270	-3.7	96.3
PFPeA	20.000	18.099	-9.5	90.5
PFTeDA	20.000	19.250	-3.7	96.3
PFTrDA	20.000	22.655	13.3	113.3
PFUnDA	20.000	17.236	-13.8	86.2

CC Criteria: +/- 25%

Southeast
ACCUTEST LABORATORIES

Reissue #1
10/27/14



Technical Report for

AMEC Environment & Infrastructure, Inc.

Plattsburgh AFB; Plattsburgh, NY

775290177

Accutest Job Number: FA18890

Sampling Date: 10/03/14

Report to:

AMEC Environment & Infrastructure, Inc.

marie.bevier@amec.com

ATTN: Marie Bevier

Total number of pages in report: **42**

NELAP ACCREDITED TNI LABORATORY

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

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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October 23, 2014

Ms. Marie Bevier
AMEC Environment & Infrastructure
7376 SW Durham Rd.
Portland, OR 97224

RE: Accutest job FA18890 Reissue

Dear Ms. Bevier,

The final report for job number FA18890 has been edited to reflect the following corrections. These edits have been incorporated into the revised report.

A sample ID table has been added to the report.

Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE

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Sample Summary

AMEC Environment & Infrastructure, Inc.

Job No: FA18890

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18890-1	10/03/14	12:48	ML	10/04/14	AQ	Ground Water	PLTSB-GW-025
FA18890-2	10/03/14	08:36	ML	10/04/14	AQ	Ground Water	PLTSB-GW-026
FA18890-3	10/03/14	13:00	ML	10/04/14	AQ	Field Blank Water	PLTSB-FT002P-BLK09
FA18890-4	10/03/14	10:20	ML	10/04/14	AQ	Ground Water	PLTSB-GW-010
FA18890-5	10/03/14	09:10	ML	10/04/14	AQ	Equipment Blank	PLTSB-GW-BLK08
FA18890-6	10/03/14	09:05	ML	10/04/14	AQ	Ground Water	PLTSB-GW-024

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc. **Job No:** FA18890

Site: Plattsburgh AFB; Plattsburgh, NY **Report Date:** 10/20/2014 4:41:40

5 Sample(s) and 1 Field Blank(s) were collected on 10/03/2014 and were received at Accutest SE on 10/04/2014 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of FA18890. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP53456

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18868-13MS, FA18868-13MSD were used as the QC samples indicated.

Matrix Spike Recovery/Matrix Spike Duplicate Recovery for Perfluorononanoic acid are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Perfluorooctanesulfonic acid, Perfluorooctanoic, Perfluorohexanesulfonic acid are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike. Sample(s) FA18890-3, FA18890-4, OP53456-BS have surrogates outside control limits.

OP53456-BS for 13C2-PFHxA: Outside control limits.

FA18890-3: Dilution required due to matrix interference (internal standard failure).

FA18890-3 for 13C2-PFHxA: Outside control limits. However, sample was ND.

FA18890-3 for 13C2-PFDA: Outside control limits. However, sample was ND.

FA18890-4 for 13C2-PFHxA: Outside control limits due to dilution.

FA18890-4 for 13C2-PFDA: Outside control limits due to dilution.

FA18890-4 for 13C2-PFHxA: Outside control limits due to dilution.

FA18890-4 for 13C2-PFDA: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP53564

FA18890-3: Confirmation run for internal standard areas.

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

Narrative prepared by:

_____ Date: October 20, 2014

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA18890-1	MSSEMI	Q7412.D	Perfluorohexanesulfonic acid, Perfluorononanoic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18890-2	MSSEMI	Q7413.D	Perfluorohexanesulfonic acid, Perfluorononanoic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18890-3	MSSEMI	Q7543.D	13C2-PFDA, 13C2-PFHxA, Perfluorooctanoic acid
FA18890-4	MSSEMI	Q7544.D	Perfluoroheptanoic acid, Perfluorooctanesulfonic acid
FA18890-4	MSSEMI	Q7545.D	Perfluorohexanesulfonic acid, Perfluorooctanoic acid
FA18890-5	MSSEMI	Q7470.D	Perfluorooctanoic acid
FA18890-6	MSSEMI	Q7417.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP53456-BS	MSSEMI	Q7390.D	13C2-PFDA, 13C2-PFHxA, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
OP53456-MB	MSSEMI	Q7391.D	13C2-PFDA
OP53456-MS	MSSEMI	Q7471.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP53456-MSD	MSSEMI	Q7472.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
SQ234-IC234	MSSEMI	Q6936.D	Perfluorooctanoic acid, Perfluoroundecanoic acid
SQ234-ICV234	MSSEMI	Q6945.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorotridecanoic acid, Perfluoroundecanoic acid
SQ251-CC234	MSSEMI	Q7384.D	13C2-PFDA, Perfluorotetradecanoic acid, Perfluorotridecanoic acid
SQ251-CC234	MSSEMI	Q7407.D	Perfluorotetradecanoic acid, Perfluorotridecanoic acid
SQ252-CC234	MSSEMI	Q7465.D	Perfluorononanoic acid
SQ254-CC234	MSSEMI	Q7538.D	13C2-PFDA, Perfluorodecanoic acid
SQ256-CC234	MSSEMI	Q7602.D	13C2-PFDA, Perfluorodecanoic acid

18 Manual Integrations were found for FA18890

Sample Location	Sample ID	Sample Date	Sample Depth	Lab ID
MW-02-008	PLTSB-GW-010	10/03/14		FA18890-4
MW-22-003	PLTSB-GW-024	10/03/14		FA18890-6
MW-22-008	PLTSB-GW-025	10/03/14		FA18890-1

Summary of Hits

Job Number: FA18890
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/03/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18890-1	**PLTSB-GW-025**					
Perfluorooctanoic acid		0.0343 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.0172 J	0.020	0.016	ug/l	EPA 537 MOD
FA18890-2	**PLTSB-GW-026**					
Perfluorohexanesulfonic acid		0.0145 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.0280	0.021	0.017	ug/l	EPA 537 MOD
FA18890-3	**PLTSB-FT002P-BLK09**					
No hits reported in this sample.						
FA18890-4	**PLTSB-GW-010**					
Perfluoroheptanoic acid		18.3	10	8.0	ug/l	EPA 537 MOD
Perfluorooctanoic acid		981	100	80	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		15.8	10	8.0	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		607	50	40	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		64.0	10	8.0	ug/l	EPA 537 MOD
FA18890-5	**PLTSB-GW-BLK08**					
No hits reported in this sample.						
FA18890-6	**PLTSB-GW-024**					
Perfluoroheptanoic acid		0.0109 J	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0196 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.00973 J	0.020	0.016	ug/l	EPA 537 MOD

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PLTSB-GW-025		
Lab Sample ID:	FA18890-1	**Date Sampled:**	10/03/14
Matrix:	AQ - Ground Water	**Date Received:**	10/04/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7412.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.0343	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0172	0.020	0.016	0.0080	ug/l	J
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	122%		70-130%
	13C2-PFDA	109%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-026		
Lab Sample ID:	FA18890-2	**Date Sampled:**	10/03/14
Matrix:	AQ - Ground Water	**Date Received:**	10/04/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7413.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.033 U	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0145	0.021	0.017	0.0083	ug/l	J
1763-23-1	Perfluorooctanesulfonic acid	0.0280	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	120%		70-130%
	13C2-PFDA	98%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK09		
Lab Sample ID:	FA18890-3	**Date Sampled:**	10/03/14
Matrix:	AQ - Field Blank Water	**Date Received:**	10/04/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q7605.D	1	10/18/14	NAF	10/17/14	OP53564	SQ256
Run #2 [b]	Q7543.D	4	10/16/14	NAF	10/09/14	OP53456	SQ254

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.064 U [c]	0.080	0.064	0.032	ug/l	
335-67-1	Perfluorooctanoic acid	0.13 U [c]	0.16	0.13	0.064	ug/l	
375-95-1	Perfluorononanoic acid	0.064 U [c]	0.080	0.064	0.032	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.064 U [c]	0.080	0.064	0.032	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.064 U [c]	0.080	0.064	0.032	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.064 U [c]	0.080	0.064	0.032	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	100%	140% [d]	70-130%
	13C2-PFDA	0% [e]	134% [d]	70-130%

(a) Confirmation run for internal standard areas.
(b) Dilution required due to matrix interference (internal standard failure).
(c) Result is from Run# 2
(d) Outside control limits. However, sample was ND.
(e) Outside control limits due to matrix interference.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-010		
Lab Sample ID:	FA18890-4	**Date Sampled:**	10/03/14
Matrix:	AQ - Ground Water	**Date Received:**	10/04/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7544.D	500	10/16/14	NAF	10/09/14	OP53456	SQ254
Run #2	Q7545.D	2500	10/16/14	NAF	10/09/14	OP53456	SQ254

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	18.3	10	8.0	4.0	ug/l	
335-67-1	Perfluorooctanoic acid	981 [a]	100	80	40	ug/l	
375-95-1	Perfluorononanoic acid	8.0 U	10	8.0	4.0	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	15.8	10	8.0	4.0	ug/l	
355-46-4	Perfluorohexanesulfonic acid	607 [a]	50	40	20	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	64.0	10	8.0	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	0% [b]	0% [b]	70-130%
	13C2-PFDA	0% [b]	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-BLK08		
Lab Sample ID:	FA18890-5	**Date Sampled:**	10/03/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/04/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7470.D	1	10/14/14	NAF	10/09/14	OP53456	SQ252
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	95%		70-130%
	13C2-PFDA	91%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-GW-024		
Lab Sample ID:	FA18890-6	**Date Sampled:**	10/03/14
Matrix:	AQ - Ground Water	**Date Received:**	10/04/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7417.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0109	0.020	0.016	0.0080	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0196	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.00973	0.020	0.016	0.0080	ug/l	J
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	116%		70-130%
	13C2-PFDA	100%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast

ACCUTEST LABORATORIES

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA18890 PAGE_____OF____

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name AMEC
Address Quorum Office Park 371 Mall Road
City Chemsford State MA Zip 01824
Project Contact E-mail
Phone#
Sampler(s) Name(s) (Printed)

Project Information

Project Name: Platts Brush
Street PFC - Project
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

PFCs (LC/ms/ms)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	CONTAINER INFORMATION TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	PFCs (LC/ms/ms)	LAB USE ONLY
1	PLTSB-GW-025	10/3	1248	ML		1										X	
2	PLTSB-GW-026	10/3	836	ML		1										X	
3	PLTSB-Floor-BLK09	10/3	1300	ML												X	
4	PLTSB-GW-010	10/3	1020	ML												X	
5	PLTSB-GW-BLK08	10/3	915	ML												X	
6	PLTSB-GW-024	10/3	905	ML												X	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by :	Date Time:	Received By:
1	10/13/14 1400	2 FX	3 FX	10-4-14	4 J. Connor (ASE) 10:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 2-8

FA18890: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA18890 CLIENT: AMEC PROJECT: BUSH

DATE/TIME RECEIVED: 10-1-14 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8063 1884 2410

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.1
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

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

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

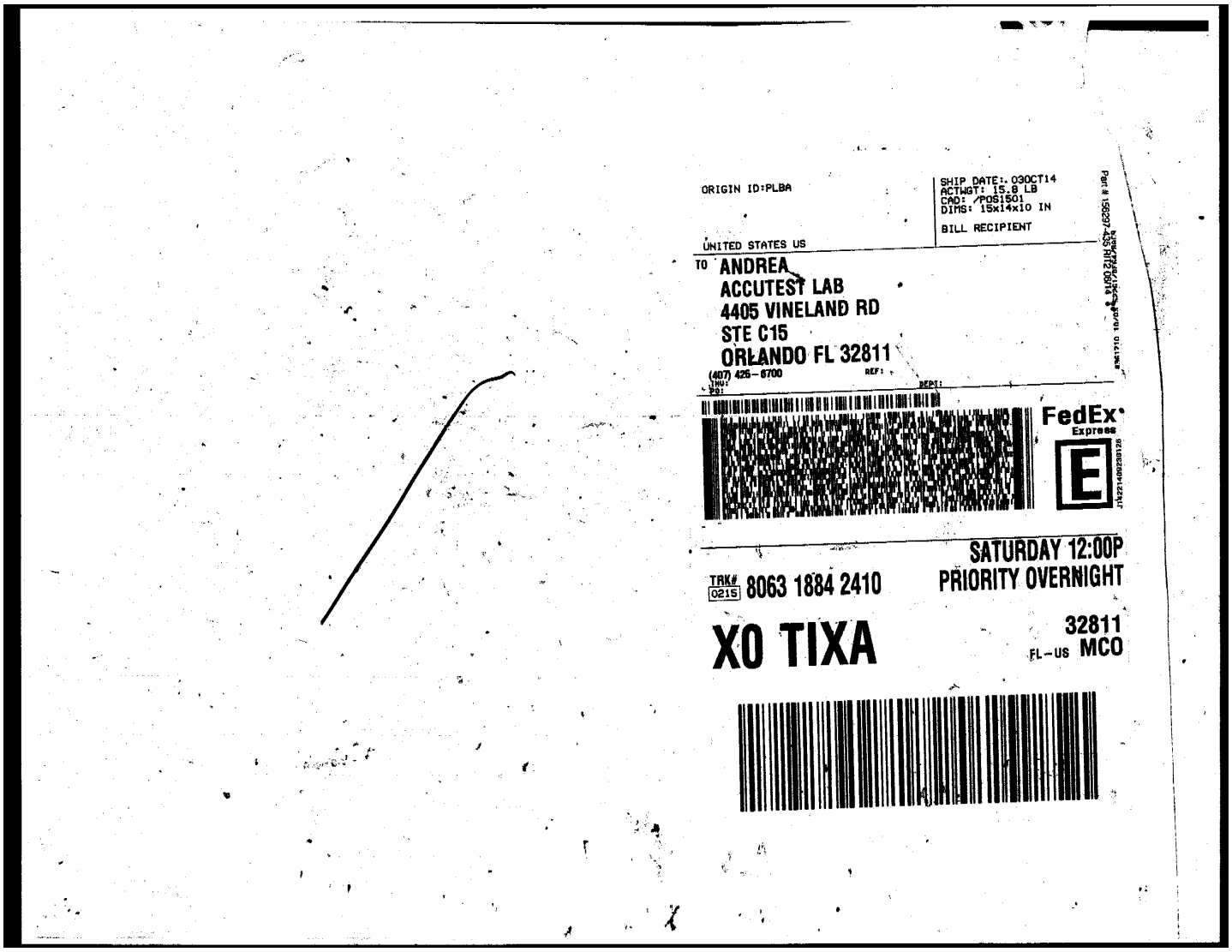
TECHNICIAN SIGNATURE/DATE: [illegible] 10-2-14 REVIEWER SIGNATURE/DATE _____

RS 04/14 receipt confirmation 041514.xls

5.1 5

FA18890: Chain of Custody

Page 2 of 3



FA18890: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53456-MB	Q7391.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18890-1, FA18890-2, FA18890-3, FA18890-4, FA18890-5, FA18890-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	128%	70-130%
	13C2-PFDA	128%	70-130%

Blank Spike Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53456-BS	Q7390.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18890-1, FA18890-2, FA18890-3, FA18890-4, FA18890-5, FA18890-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.157	98	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.165	103	70-130
375-95-1	Perfluorononanoic acid	0.16	0.184	115	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.199	124	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.186	116	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.175	109	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	139%* [a]	70-130%
	13C2-PFDA	130%	70-130%

(a) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53456-MS	Q7471.D	10	10/14/14	NAF	10/09/14	OP53456	SQ252
OP53456-MSD	Q7472.D	10	10/14/14	NAF	10/09/14	OP53456	SQ252
FA18868-13	Q7399.D	1	10/13/14	NAF	10/09/14	OP53456	SQ251
FA18868-13	Q7455.D	10	10/14/14	NAF	10/09/14	OP53456	SQ252

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18890-1, FA18890-2, FA18890-3, FA18890-4, FA18890-5, FA18890-6

CAS No.	Compound	FA18868-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.0998		0.16	0.238	86	0.16	0.229	81	4	70-130/30
335-67-1	Perfluorooctanoic acid	0.419 [b]	J	0.16	0.588	106	0.16	0.529	69* [a]	11	70-130/30
375-95-1	Perfluorononanoic acid	0.021 U		0.16	0.233	146*	0.16	0.224	140*	4	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.0320		0.16	0.183	94	0.16	0.175	89	4	70-130/30
355-46-4	Perfluorohexanesulfonic acid	1.29 [b]		0.16	1.47	113	0.16	1.33	25* [a]	10	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.410 [b]		0.16	0.577	104	0.16	0.510	63* [a]	12	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18868-13	FA18868-13	Limits
	13C2-PFHxA	103%	106%	124%	110%	70-130%
	13C2-PFDA	89%	89%	109%	78%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/13/14
Lab File ID:	Q7384.D	**Injection Time:**	10:07
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	32184	5.91	17113	6.51	23355	9.76
Upper Limit [c]	57426	6.91	22568	7.51	39822	10.76
Lower Limit [d]	19142	4.91	7523	5.51	13274	8.76

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	34342	5.91	17419	6.49	23600	9.75
ZZZZZZ	33031	5.90	16411	6.49	23267	9.73
ZZZZZZ	34884	5.90	17463	6.49	24923	9.73
ZZZZZZ	34577	5.90	17242	6.48	25313	9.72
OP53456-BS	29786	5.88	14704	6.48	24276	9.70
OP53456-MB	29565	5.88	14638	6.48	22670	9.69
ZZZZZZ	32007	5.87	14536	6.47	25158	9.69
ZZZZZZ	29831	5.88	13641	6.48	23908	9.79
ZZZZZZ	31673	5.88	15978	6.48	25983	9.61

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/13/14
Lab File ID:	Q7407.D	**Injection Time:**	17:41
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	34247	5.87	16856	6.46	29210	9.69
Upper Limit [c]	57426	6.87	22568	7.46	39822	10.69
Lower Limit [d]	19142	4.87	7523	5.46	13274	8.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	31355	5.87	10357	6.44	27950	9.71
ZZZZZZ	33714	5.87	15993	6.46	27339	9.70
FA18890-1	33194	5.88	15697	6.47	26223	9.70
FA18890-2	34709	5.88	16236	6.47	28056	9.71
FA18890-6	39315	5.88	18774	6.47	31479	9.71

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ252-CC234	**Injection Date:**	10/14/14
Lab File ID:	Q7465.D	**Injection Time:**	19:50
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	27426	5.85	13558	6.43	24685	9.59
Upper Limit [c]	57426	6.85	22568	7.43	39822	10.59
Lower Limit [d]	19142	4.85	7523	5.43	13274	8.59

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18890-5	27656	5.86	12542	6.43	23083	9.40
OP53456-MS	30298	5.86	14378	6.43	25762	9.60
OP53456-MSD	28820	5.86	13638	6.43	24722	9.61

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ254-CC234	**Injection Date:**	10/16/14
Lab File ID:	Q7538.D	**Injection Time:**	13:46
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	26873	5.86	14036	6.43	22018	9.60
Upper Limit [c]	57426	6.86	22568	7.43	39822	10.60
Lower Limit [d]	19142	4.86	7523	5.43	13274	8.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	33924	5.86	11006	6.42	26501	9.58
FA18890-3 [e]	30720	5.86	14961	6.43	23283	9.35
FA18890-4	24066	5.85	14450	6.43	22826	9.60
FA18890-4	25254	5.86	13448	6.43	20826	9.58

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
(e) Dilution required due to matrix interference (internal standard failure).

Semivolatile Internal Standard Area Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ256-CC234	**Injection Date:**	10/18/14
Lab File ID:	Q7602.D	**Injection Time:**	11:33
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	25250	5.86	13954	6.44	14939	9.63
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.63
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53564-BS	23934	5.86	12998	6.44	14574	9.63
OP53564-MB	26307	5.86	14003	6.44	15108	9.63
FA18890-3 [e]	24672	5.86	13080	6.42	0*	0.00*
ZZZZZZ	27039	5.86	14479	6.44	16967	9.62
FA19153-1	19230	5.87	19751	6.44	24588	9.62
OP53564-MS	22602	5.88	15611	6.44	19952	9.65
OP53564-MSD	22974	5.88	15764	6.44	21656	9.65

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
(e) Confirmation run for internal standard areas.

Semivolatile Surrogate Recovery Summary

Job Number: FA18890
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18890-1	Q7412.D	122	109
FA18890-2	Q7413.D	120	98
FA18890-3	Q7543.D	140* [a]	134* [a]
FA18890-3	Q7605.D	100	0* [b]
FA18890-4	Q7544.D	0* [c]	0* [c]
FA18890-4	Q7545.D	0* [c]	0* [c]
FA18890-5	Q7470.D	95	91
FA18890-6	Q7417.D	116	100
OP53456-BS	Q7390.D	139* [d]	130
OP53456-MB	Q7391.D	128	128
OP53456-MS	Q7471.D	103	89
OP53456-MSD	Q7472.D	106	89

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

(a) Outside control limits. However, sample was ND.
(b) Outside control limits due to matrix interference.
(c) Outside control limits due to dilution.
(d) Outside control limits.

Initial Calibration Summary

Job Number: FA18890 **Sample:** SQ234-ICC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6939.D
Project: Plattsburgh AFB; Plattsburgh, NY

Initial Calibration ReSponse Factors - D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID : Calibration File
1 : D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2 : D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3 : D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4 : D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5 : D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6 : D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7 : D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Compound	1	2	3	4	5	6	7	AvgRF	%RSD	r^2
2) 13C2-PFDoDA	----------ISTD----------									
1) 13C2-PFDA	1.4694	1.2705	1.3641	1.3573	1.2782	1.1995	1.1677	1.3010	8.002	0.9925
8) PFDA	1.3529	1.1705	1.2774	1.2682	1.2016	1.1239	1.0824	1.2110	7.811	0.9913
9) PFDoDA	0.9528	0.9350	0.8811	0.8914	0.8903	0.8623	0.8657	0.8969	3.827	0.9994
10) PFDS	0.2240	0.2180	0.2018	0.2025	0.1985	0.1920	0.1929	0.2043	5.996	0.9989
19) PFTeDA	0.7532	0.6581	0.5739	0.5913	0.5950	0.5845	0.5932	0.6213	10.333	0.9994
20) PFTrDA	0.8594	0.8431	0.7924	0.7963	0.7967	0.7777	0.7789	0.8063	3.964	0.9999
21) PFUnDA	1.4969	1.2243	1.1198	1.0728	1.0513	1.0110	1.0658	1.1489	14.603	0.9948
4) 13C2-PFOA	----------ISTD----------									
3) 13C2-PFHxA	0.3285	0.3294	0.3113	0.3056	0.3013	0.2929	0.2943	0.3090	4.856	0.9992
6) PFBA	0.2472	0.2443	0.2374	0.2319	0.2354	0.2301	0.2321	0.2369	2.771	0.9998
11) PFHpA	0.4292	0.3812	0.3486	0.3311	0.3247	0.3126	0.3091	0.3481	12.464	0.9994
13) PFHxA	0.3782	0.3737	0.3488	0.3465	0.3428	0.3331	0.3339	0.3510	5.150	0.9992
15) PFNA	0.5906	0.5169	0.4639	0.4647	0.4599	0.4509	0.4500	0.4853	10.660	0.9996
16) PFOA	1.3992	1.1606	1.0285	1.0005	0.9828	0.9625	0.9647	1.0713	14.922	0.9959
18) PFPeA	0.1233	0.1212	0.1155	0.1139	0.1149	0.1115	0.1146	0.1164	3.645	0.9995
5) 13C4-PFOS	----------ISTD----------									
7) PFBS	0.4070	0.3735	0.3399	0.3254	0.3260	0.3064	0.3165	0.3421	10.450	0.9975
12) PFHpS	0.6380	0.6341	0.6144	0.5989	0.6054	0.5816	0.5927	0.6093	3.437	0.9993
14) PFHxS	0.6360	0.5636	0.5422	0.5072	0.5081	0.4775	0.4990	0.5334	10.027	0.9974
17) PFOS	1.3645	1.1081	1.0077	0.9890	0.9834	0.9433	0.9543	1.0500	14.167	0.9965

*(value) - Average RF below (value)

Initial Calibration Verification

Job Number: FA18890 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6944.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6944
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	# -100.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	# -100.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.367	1.8	101.8
PFBS	20.000	21.501	7.5	107.5
PFDA	20.000	21.272	6.4	106.4
PFDoDA	20.000	21.331	6.7	106.7
PFDS	20.000	21.521	7.6	107.6
PFHpA	20.000	20.021	0.1	100.1
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	20.765	3.8	103.8
PFHxS	20.000	21.704	8.5	108.5
PFNA	20.000	20.123	0.6	100.6
PFOA	20.000	20.065	0.3	100.3
PFOS	20.000	20.717	3.6	103.6
PFPeA	20.000	20.410	2.1	102.1
PFTeDA	20.000	22.398	12.0	112.0
PFTrDA	20.000	20.605	3.0	103.0
PFUnDA	20.000	20.271	1.4	101.4

CC Criteria: +/- 25%

Initial Calibration Verification

Job Number: FA18890 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6945.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6945
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	0.000	0.0	0.0
PFBS	20.000	24.861	24.3	124.3
PFDA	20.000	0.000	0.0	0.0
PFDoDA	20.000	0.000	0.0	0.0
PFDS	20.000	0.000	0.0	0.0
PFHpA	20.000	18.993	-5.0	95.0
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	0.000	0.0	0.0
PFHxS	20.000	23.899	19.5	119.5
PFNA	20.000	21.584	7.9	107.9
PFOA	20.000	19.090	-4.5	95.5
PFOS	20.000	20.549	2.7	102.7
PFPeA	20.000	0.000	0.0	0.0
PFTeDA	20.000	0.000	0.0	0.0
PFTrDA	20.000	0.000	0.0	0.0
PFUnDA	20.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7384.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7384
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	24.673	23.4	123.4
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	22.190	11.0	111.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.549	17.7	117.7
PFBS	20.000	20.025	0.1	100.1
PFDA	20.000	26.748	# 33.7	133.7
PFDoDA	20.000	22.221	11.1	111.1
PFDS	20.000	30.767	# 53.8	153.8
PFHpA	20.000	20.437	2.2	102.2
PFHpS	20.000	19.820	-0.9	99.1
PFHxA	20.000	21.972	9.9	109.9
PFHxS	20.000	19.690	-1.6	98.4
PFNA	20.000	21.980	9.9	109.9
PFOA	20.000	20.871	4.4	104.4
PFOS	20.000	20.354	1.8	101.8
PFPeA	20.000	23.411	17.1	117.1
PFTeDA	20.000	15.077	-24.6	75.4
PFTrDA	20.000	17.328	-13.4	86.6
PFUnDA	20.000	16.800	-16.0	84.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7395.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7395
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	21.563	7.8	107.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.051	5.3	105.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.845	19.2	119.2
PFBS	20.000	20.868	4.3	104.3
PFDA	20.000	23.458	17.3	117.3
PFDoDA	20.000	22.539	12.7	112.7
PFDS	20.000	26.178	# 30.9	130.9
PFHpA	20.000	20.314	1.6	101.6
PFHpS	20.000	20.146	0.7	100.7
PFHxA	20.000	21.048	5.2	105.2
PFHxS	20.000	20.048	0.2	100.2
PFNA	20.000	23.147	15.7	115.7
PFOA	20.000	20.732	3.7	103.7
PFOS	20.000	20.317	1.6	101.6
PFPeA	20.000	22.627	13.1	113.1
PFTeDA	20.000	18.276	-8.6	91.4
PFTrDA	20.000	21.230	6.2	106.2
PFUnDA	20.000	17.121	-14.4	85.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7407.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7407
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.248	-3.8	96.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.606	3.0	103.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.660	18.3	118.3
PFBS	20.000	20.633	3.2	103.2
PFDA	20.000	20.953	4.8	104.8
PFDoDA	20.000	22.021	10.1	110.1
PFDS	20.000	24.536	22.7	122.7
PFHpA	20.000	19.828	-0.9	99.1
PFHpS	20.000	20.271	1.4	101.4
PFHxA	20.000	20.239	1.2	101.2
PFHxS	20.000	20.350	1.8	101.8
PFNA	20.000	23.636	18.2	118.2
PFOA	20.000	20.749	3.7	103.7
PFOS	20.000	20.525	2.6	102.6
PFPeA	20.000	21.973	9.9	109.9
PFTeDA	20.000	18.126	-9.4	90.6
PFTrDA	20.000	19.519	-2.4	97.6
PFUnDA	20.000	17.286	-13.6	86.4

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7418.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7418
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.914	-5.4	94.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.652	-1.7	98.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.953	14.8	114.8
PFBS	20.000	20.172	0.9	100.9
PFDA	20.000	20.566	2.8	102.8
PFDoDA	20.000	22.121	10.6	110.6
PFDS	20.000	25.348	# 26.7	126.7
PFHpA	20.000	19.164	-4.2	95.8
PFHpS	20.000	19.934	-0.3	99.7
PFHxA	20.000	19.669	-1.7	98.3
PFHxS	20.000	20.446	2.2	102.2
PFNA	20.000	23.834	19.2	119.2
PFOA	20.000	20.877	4.4	104.4
PFOS	20.000	20.463	2.3	102.3
PFPeA	20.000	21.579	7.9	107.9
PFTeDA	20.000	19.205	-4.0	96.0
PFTrDA	20.000	23.709	18.5	118.5
PFUnDA	20.000	17.516	-12.4	87.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ252-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7465.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1014_PFC_SQ252\SQ252.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7465
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.627	-16.9	83.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.537	-12.3	87.7
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.997	-15.0	85.0
PFBS	20.000	16.863	-15.7	84.3
PFDA	20.000	15.626	-21.9	78.1
PFDoDA	20.000	21.144	5.7	105.7
PFDS	20.000	23.399	17.0	117.0
PFHpA	20.000	17.907	-10.5	89.5
PFHpS	20.000	18.468	-7.7	92.3
PFHxA	20.000	17.577	-12.1	87.9
PFHxS	20.000	18.061	-9.7	90.3
PFNA	20.000	24.796	24.0	124.0
PFOA	20.000	20.059	0.3	100.3
PFOS	20.000	19.566	-2.2	97.8
PFPeA	20.000	17.201	-14.0	86.0
PFTeDA	20.000	20.093	0.5	100.5
PFTrDA	20.000	23.035	15.2	115.2
PFUnDA	20.000	16.508	-17.5	82.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ252-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7474.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1014_PFC_SQ252\SQ252.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7474
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.641	-11.8	88.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.554	-12.2	87.8
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.944	-10.3	89.7
PFBS	20.000	17.075	-14.6	85.4
PFDA	20.000	16.993	-15.0	85.0
PFDoDA	20.000	21.685	8.4	108.4
PFDS	20.000	24.251	21.3	121.3
PFHpA	20.000	18.563	-7.2	92.8
PFHpS	20.000	19.035	-4.8	95.2
PFHxA	20.000	17.222	-13.9	86.1
PFHxS	20.000	18.539	-7.3	92.7
PFNA	20.000	24.956	24.8	124.8
PFOA	20.000	20.141	0.7	100.7
PFOS	20.000	19.270	-3.7	96.3
PFPeA	20.000	18.099	-9.5	90.5
PFTeDA	20.000	19.250	-3.7	96.3
PFTrDA	20.000	22.655	13.3	113.3
PFUnDA	20.000	17.236	-13.8	86.2

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ254-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7538.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1016_PFC_SQ254\sq254.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7538
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.752	-11.2	88.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.717	3.6	103.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.255	6.3	106.3
PFBS	20.000	19.648	-1.8	98.2
PFDA	20.000	19.018	-4.9	95.1
PFDoDA	20.000	23.628	18.1	118.1
PFDS	20.000	29.191	# 46.0	146.0
PFHpA	20.000	21.258	6.3	106.3
PFHpS	20.000	21.327	6.6	106.6
PFHxA	20.000	20.180	0.9	100.9
PFHxS	20.000	20.648	3.2	103.2
PFNA	20.000	24.716	23.6	123.6
PFOA	20.000	22.602	13.0	113.0
PFOS	20.000	22.394	12.0	112.0
PFPeA	20.000	21.194	6.0	106.0
PFTeDA	20.000	23.169	15.8	115.8
PFTrDA	20.000	26.321	# 31.6	131.6
PFUnDA	20.000	18.217	-8.9	91.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ254-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7546.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1016_PFC_SQ254\sq254.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7546
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.578	-2.1	97.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.643	3.2	103.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.125	10.6	110.6
PFBS	20.000	20.698	3.5	103.5
PFDA	20.000	20.132	0.7	100.7
PFDoDA	20.000	23.646	18.2	118.2
PFDS	20.000	28.967	# 44.8	144.8
PFHpA	20.000	21.124	5.6	105.6
PFHpS	20.000	21.646	8.2	108.2
PFHxA	20.000	20.415	2.1	102.1
PFHxS	20.000	21.101	5.5	105.5
PFNA	20.000	25.386	# 26.9	126.9
PFOA	20.000	23.500	17.5	117.5
PFOS	20.000	22.398	12.0	112.0
PFPeA	20.000	21.521	7.6	107.6
PFTeDA	20.000	23.089	15.4	115.4
PFTrDA	20.000	26.519	# 32.6	132.6
PFUnDA	20.000	18.552	-7.2	92.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ256-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7602.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1018_PFC_SQ256\SQ256.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7602
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.622	-6.9	93.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.474	-12.6	87.4
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.057	-14.7	85.3
PFBS	20.000	15.591	-22.0	78.0
PFDA	20.000	19.451	-2.7	97.3
PFDoDA	20.000	23.045	15.2	115.2
PFDS	20.000	27.953	# 39.8	139.8
PFHpA	20.000	19.736	-1.3	98.7
PFHpS	20.000	19.281	-3.6	96.4
PFHxA	20.000	17.478	-12.6	87.4
PFHxS	20.000	18.257	-8.7	91.3
PFNA	20.000	19.890	-0.6	99.4
PFOA	20.000	20.663	3.3	103.3
PFOS	20.000	19.539	-2.3	97.7
PFPeA	20.000	18.100	-9.5	90.5
PFTeDA	20.000	21.536	7.7	107.7
PFTrDA	20.000	28.723	# 43.6	143.6
PFUnDA	20.000	16.246	-18.8	81.2

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18890 **Sample:** SQ256-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7610.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1018_PFC_SQ256\SQ256.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7610
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.669	-11.7	88.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.282	-18.6	81.4
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.013	-19.9	80.1
PFBS	20.000	16.009	-20.0	80.0
PFDA	20.000	15.754	-21.2	78.8
PFDoDA	20.000	21.036	5.2	105.2
PFDS	20.000	28.303	# 41.5	141.5
PFHpA	20.000	18.508	-7.5	92.5
PFHpS	20.000	19.269	-3.7	96.3
PFHxA	20.000	16.414	-17.9	82.1
PFHxS	20.000	17.960	-10.2	89.8
PFNA	20.000	23.428	17.1	117.1
PFOA	20.000	20.307	1.5	101.5
PFOS	20.000	19.948	-0.3	99.7
PFPeA	20.000	17.005	-15.0	85.0
PFTeDA	20.000	20.489	2.4	102.4
PFTrDA	20.000	23.959	19.8	119.8
PFUnDA	20.000	16.742	-16.3	83.7

CC Criteria: +/- 25%

Southeast
ACCUTEST
LABORATORIES

10/23/14



Technical Report for

AMEC Environment & Infrastructure, Inc.

Plattsburgh AFB; Plattsburgh, NY

775290177

Accutest Job Number: FA18988

Sampling Dates: 10/06/14 - 10/07/14

Report to:

AMEC Environment & Infrastructure, Inc.

marie.bevier@amec.com

ATTN: Marie Bevier

Total number of pages in report: **169**

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Norm Farmer
Technical Director

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Sample Summary

AMEC Environment & Infrastructure, Inc.

Job No: FA18988

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18988-1	10/07/14	07:10		10/08/14	AQ	Equipment Blank	PLTSB-FT002P-BLK01
FA18988-2	10/06/14	07:15		10/08/14	AQ	Field Blank Soil	PLTSB-FT002P-BLK08
FA18988-3	10/06/14	13:45		10/08/14	SO	Soil	PLTSB-SO-001
FA18988-4	10/06/14	14:00		10/08/14	SO	Soil	PLTSB-SO-002
FA18988-5	10/06/14	14:13		10/08/14	SO	Soil	PLTSB-SO-003
FA18988-6	10/06/14	14:25		10/08/14	SO	Soil	PLTSB-SO-004
FA18988-7	10/06/14	14:35		10/08/14	SO	Soil	PLTSB-SO-005
FA18988-8	10/06/14	15:10		10/08/14	SO	Soil	PLTSB-SO-006
FA18988-9	10/06/14	15:20		10/08/14	SO	Soil	PLTSB-SO-007
FA18988-10	10/06/14	15:45		10/08/14	SO	Soil	PLTSB-SO-008
FA18988-11	10/06/14	16:00		10/08/14	SO	Soil	PLTSB-SO-009
FA18988-12	10/07/14	08:13		10/08/14	SO	Soil	PLTSB-SO-010
FA18988-13	10/07/14	10:30		10/08/14	AQ	Equipment Blank	PLTSB-FT002P-BLK02

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

AMEC Environment & Infrastructure, Inc.

Job No: FA18988

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18988-14	10/07/14	08:13		10/08/14	SO	Soil	PLTSB-SO-011
FA18988-15	10/07/14	09:00		10/08/14	SO	Soil	PLTSB-SO-012
FA18988-16	10/07/14	09:12		10/08/14	SO	Soil	PLTSB-SO-013
FA18988-17	10/07/14	09:20		10/08/14	SO	Soil	PLTSB-SO-014
FA18988-18	10/07/14	09:30		10/08/14	SO	Soil	PLTSB-SO-015
FA18988-19	10/07/14	09:38		10/08/14	SO	Soil	PLTSB-SO-016
FA18988-20	10/07/14	09:50		10/08/14	SO	Soil	PLTSB-SO-017
FA18988-21	10/07/14	10:15		10/08/14	SO	Soil	PLTSB-SO-019
FA18988-22	10/07/14	10:15		10/08/14	SO	Soil	PLTSB-SO-020
FA18988-23	10/07/14	11:10		10/08/14	SO	Soil	PLTSB-SO-031
FA18988-24	10/07/14	11:25		10/08/14	SO	Soil	PLTSB-SO-032
FA18988-25	10/07/14	11:25		10/08/14	SO	Soil	PLTSB-SO-033
FA18988-26	10/07/14	11:40		10/08/14	SO	Soil	PLTSB-SO-034

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

AMEC Environment & Infrastructure, Inc.

Job No: FA18988

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18988-27	10/07/14	11:50		10/08/14	SO	Soil	PLTSB-SO-035
FA18988-28	10/07/14	12:00		10/08/14	SO	Soil	PLTSB-SO-036
FA18988-29	10/07/14	12:05		10/08/14	SO	Soil	PLTSB-SO-037
FA18988-30	10/07/14	12:20		10/08/14	SO	Soil	PLTSB-SO-038
FA18988-31	10/07/14	12:30		10/08/14	SO	Soil	PLTSB-SO-039
FA18988-32	10/07/14	12:40		10/08/14	SO	Soil	PLTSB-SO-040
FA18988-33	10/07/14	12:40		10/08/14	SO	Soil	PLTSB-SO-041
FA18988-34	10/07/14	13:35		10/08/14	SO	Soil	PLTSB-SO-052
FA18988-35	10/07/14	13:50		10/08/14	SO	Soil	PLTSB-SO-053
FA18988-36	10/07/14	15:15		10/08/14	AQ	Equipment Blank	PLTSB-FT002P-BLK04
FA18988-37	10/07/14	14:00		10/08/14	SO	Soil	PLTSB-SO-054
FA18988-38	10/07/14	14:00		10/08/14	SO	Soil	PLTSB-SO-055
FA18988-39	10/07/14	14:12		10/08/14	SO	Soil	PLTSB-SO-056

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

AMEC Environment & Infrastructure, Inc.

Job No: FA18988

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18988-40	10/07/14	14:19		10/08/14	SO	Soil	PLTSB-SO-057
FA18988-41	10/07/14	14:28		10/08/14	SO	Soil	PLTSB-SO-058
FA18988-42	10/07/14	14:35		10/08/14	SO	Soil	PLTSB-SO-059
FA18988-43	10/07/14	14:50		10/08/14	SO	Soil	PLTSB-SO-060
FA18988-44	10/07/14	15:05		10/08/14	SO	Soil	PLTSB-SO-061
FA18988-45	10/07/14	15:05		10/08/14	SO	Soil	PLTSB-SO-062
FA18988-46	10/07/14	16:10		10/08/14	SO	Soil	PLTSB-SO-074
FA18988-47	10/07/14	16:16		10/08/14	SO	Soil	PLTSB-SO-075
FA18988-48	10/07/14	00:00		10/08/14	SO	Soil	PLTSB-SO-018
FA18988-49	10/07/14	16:16		10/08/14	SO	Soil	PLTSB-SO-076
FA18988-50	10/07/14	16:25		10/08/14	SO	Soil	PLTSB-SO-077
FA18988-51	10/07/14	16:32		10/08/14	SO	Soil	PLTSB-SO-078
FA18988-52	10/07/14	16:46		10/08/14	SO	Soil	PLTSB-SO-079

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

AMEC Environment & Infrastructure, Inc.

Job No: FA18988

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA18988-53	10/07/14	17:00		10/08/14	SO	Soil	PLTSB-SO-080
FA18988-54	10/07/14	15:42		10/08/14	SO	Soil	PLTSB-SO-073
FA18988-55	10/07/14	13:21		10/08/14	AQ	Equipment Blank	PLTSB-FT002P-BLK03

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc. **Job No:** FA18988

Site: Plattsburgh AFB; Plattsburgh, NY **Report Date** 10/23/2014 4:39:31

54 Samples and 1 Field Blank were collected on between 10/06/2014 and 10/07/2014 and were received at Accutest on 10/08/2014 properly preserved, at 4 Deg. C and intact. These Samples received an Accutest job number of FA18988. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP53492

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA18923-3MS, FA18923-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** OP53564

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA19153-1MS, FA19153-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Perfluorobutanesulfonic acid, Perfluorohexanesulfonic acid, Perfluorononanoic acid, Perfluorooctanesulfonic acid are outside control limits.

Matrix Spike Duplicate Recovery(s) for Perfluorobutanesulfonic acid, Perfluorohexanesulfonic acid, Perfluorononanoic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Recovery(s) for Perfluoroheptanoic acid, Perfluorooctanoic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.
For method performance in clean matrix refer to Blank Spike.

Sample(s) FA18988-24, FA18988-25, FA18988-37, FA18988-38, FA18988-39, FA18988-40, FA18988-41, FA18988-50, FA18988-52, OP53472-MS, OP53472-MSD, OP53564-MS, OP53564-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP53564-MS, MSD for 13C2-PFDA: Outside control limits due to dilution.

OP53564-MS, MSD for 13C2-PFHxA: Outside control limits due to dilution.

Matrix: SO **Batch ID:** OP53471

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18988-19MS, FA18988-19MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP53472

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA18988-24MS, FA18988-24MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Perfluorobutanesulfonic acid, Perfluoroheptanoic acid, Perfluorooctanoic acid are outside control limits.

Matrix Spike Duplicate Recovery(s) for Perfluorobutanesulfonic acid, Perfluoroheptanoic acid, Perfluorooctanoic acid are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Recovery(s) for Perfluorooctanesulfonic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.
For method performance in clean matrix refer to Blank Spike.

Sample(s) FA18988-24, FA18988-25, FA18988-37, FA18988-38, FA18988-39, FA18988-40, FA18988-41, FA18988-50, FA18988-52, OP53472-MS, OP53472-MSD, OP53564-MS, OP53564-MSD have surrogates outside control limits. Probable

cause is due to matrix interference.

OP53472-MS, MSD for 13C2-PFDA: Outside control limits due to dilution.

OP53472-MS, MSD for 13C2-PFHxA: Outside control limits due to dilution.

FA18988-24, 25, 37, 38, 39, and 40 for 13C2-PFDA: Outside control limits due to dilution.

FA18988-24, 25, 37, 38, 39, and 40 for 13C2-PFHxA: Outside control limits due to dilution.

Matrix: SO **Batch ID:** OP53512

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA18988-45MS, FA18988-45MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18988-24, FA18988-25, FA18988-37, FA18988-38, FA18988-39, FA18988-40, FA18988-41, FA18988-50, FA18988-52, OP53472-MS, OP53472-MSD, OP53564-MS, OP53564-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

FA18988-50, 52 for 13C2-PFHxA: Outside control limits due to dilution.

FA18988-50, 52 for 13C2-PFDA: Outside control limits due to dilution.

Matrix: SO **Batch ID:** OP53585

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA18988-30MS, FA18988-30MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN63656

Sample(s) FA19027-1DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN63657

Sample(s) FA18988-18DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN63658

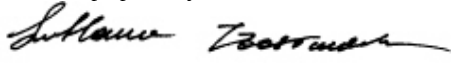
Sample(s) FA18988-35DUP, FA18988-37DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN63716

Sample(s) FA19172-1DUP were used as the QC samples for Solids, Percent.

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

Narrative prepared by:



Svetlana Izosimova, QA Officer

Date: October 23, 2014

Sample Location	Sample ID	Sample Date	Sample Depth	Lab ID
PLTSB-FT002P-001	PLTSB-SO-001	10/06/14	(0 to 1)	FA18988-3
PLTSB-FT002P-001	PLTSB-SO-002	10/06/14	(3 to 5)	FA18988-4
PLTSB-FT002P-001	PLTSB-SO-003	10/06/14	(8 to 10)	FA18988-5
PLTSB-FT002P-001	PLTSB-SO-004	10/06/14	(13 to 15)	FA18988-6
PLTSB-FT002P-001	PLTSB-SO-005	10/06/14	(18 to 20)	FA18988-7
PLTSB-FT002P-001	PLTSB-SO-006	10/06/14	(23 to 25)	FA18988-8
PLTSB-FT002P-001	PLTSB-SO-007	10/06/14	(28 to 30)	FA18988-9
PLTSB-FT002P-001	PLTSB-SO-008	10/06/14	(33 to 35)	FA18998-10
PLTSB-FT002P-001	PLTSB-SO-009	10/06/14	(38 to 40)	FA18988-11
PLTSB-FT002P-002	PLTSB-SO-010	10/07/14	(0 to 1)	FA18988-12
PLTSB-FT002P-002	PLTSB-SO-011	10/07/14	(0 to 1)	FA18988-14
PLTSB-FT002P-002	PLTSB-SO-012	10/07/14	(3 to 5)	FA18988-15
PLTSB-FT002P-002	PLTSB-SO-013	10/07/14	(8 to 10)	FA18988-16
PLTSB-FT002P-002	PLTSB-SO-014	10/07/14	(13 to 15)	FA18988-17
PLTSB-FT002P-002	PLTSB-SO-015	10/07/14	(18 to 20)	FA18988-18
PLTSB-FT002P-002	PLTSB-SO-016	10/07/14	(23 to 25)	FA18988-19
PLTSB-FT002P-002	PLTSB-SO-017	10/07/14	(28 to 30)	FA18988-20
PLTSB-FT002P-002	PLTSB-SO-018	10/07/14	(33 to 35)	FA18988-48
PLTSB-FT002P-002	PLTSB-SO-019	10/07/14	(38 to 40)	FA18988-21
PLTSB-FT002P-002	PLTSB-SO-020	10/07/14	(38 to 40)	FA18988-22
PLTSB-FT002P-004	PLTSB-SO-031	10/07/14	(0 to 1)	FA18988-23
PLTSB-FT002P-004	PLTSB-SO-032	10/07/14	(3 to 5)	FA18988-24
PLTSB-FT002P-004	PLTSB-SO-033	10/07/14	(3 to 5)	FA18988-25
PLTSB-FT002P-004	PLTSB-SO-034	10/07/14	(8 to 10)	FA18988-26
PLTSB-FT002P-004	PLTSB-SO-035	10/07/14	(13 to 15)	FA18988-27
PLTSB-FT002P-004	PLTSB-SO-036	10/07/14	(18 to 20)	FA18988-28
PLTSB-FT002P-004	PLTSB-SO-037	10/07/14	(23 to 25)	FA18988-29
PLTSB-FT002P-004	PLTSB-SO-038	10/7/2014	(28 to 30)	FA18988-30
PLTSB-FT002P-004	PLTSB-SO-039	10/7/2014	(33 to 35)	FA18988-31
PLTSB-FT002P-004	PLTSB-SO-040	10/7/2014	(38 to 40)	FA18988-32
PLTSB-FT002P-004	PLTSB-SO-041	10/7/2014	(38 to 40)	FA18988-33
PLTSB-FT002P-006	PLTSB-SO-052	10/7/2014	(0 to 1)	FA18988-34
PLTSB-FT002P-006	PLTSB-SO-053	10/7/2014	(3 to 5)	FA18988-35
PLTSB-FT002P-006	PLTSB-SO-054	10/7/2014	(8 to 10)	FA18988-37
PLTSB-FT002P-006	PLTSB-SO-055	10/7/2014	(8 to 10)	FA18988-38
PLTSB-FT002P-006	PLTSB-SO-056	10/7/2014	(13 to 15)	FA18988-39
PLTSB-FT002P-006	PLTSB-SO-057	10/7/2014	(18 to 20)	FA18988-40
PLTSB-FT002P-006	PLTSB-SO-058	10/7/2014	(23 to 25)	FA18988-41
PLTSB-FT002P-006	PLTSB-SO-059	10/7/2014	(28 to 30)	FA18988-42
PLTSB-FT002P-006	PLTSB-SO-060	10/7/2014	(33 to 35)	FA18988-43
PLTSB-FT002P-006	PLTSB-SO-061	10/7/2014	(38 to 40)	FA18988-44
PLTSB-FT002P-006	PLTSB-SO-062	10/7/2014	(38 to 40)	FA18988-45
PLTSB-FT002P-008	PLTSB-SO-074	10/7/2014	(3 to 5)	FA18988-46
PLTSB-FT002P-008	PLTSB-SO-075	10/7/2014	(8 to 10)	FA18988-47
PLTSB-FT002P-008	PLTSB-SO-076	10/7/2014	(8 to 10)	FA18988-49
PLTSB-FT002P-008	PLTSB-SO-077	10/7/2014	(13 to 15)	FA18988-50
PLTSB-FT002P-008	PLTSB-SO-078	10/7/2014	(18 to 20)	FA18988-51
PLTSB-FT002P-008	PLTSB-SO-079	10/7/2014	(23 to 25)	FA18988-52
PLTSB-FT002P-008	PLTSB-SO-080	10/7/2014	(28 to 30)	FA18988-53

Summary of Hits

Job Number: FA18988
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/06/14 thru 10/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18988-1	**PLTSB-FT002P-BLK01**					
No hits reported in this sample.						
FA18988-2	**PLTSB-FT002P-BLK08**					
No hits reported in this sample.						
FA18988-3	**PLTSB-SO-001**					
No hits reported in this sample.						
FA18988-4	**PLTSB-SO-002**					
Perfluorooctanesulfonic acid		60.0	13	10	ug/kg	EPA 537 MOD
FA18988-5	**PLTSB-SO-003**					
Perfluorooctanesulfonic acid		6.07 J	13	10	ug/kg	EPA 537 MOD
FA18988-6	**PLTSB-SO-004**					
No hits reported in this sample.						
FA18988-7	**PLTSB-SO-005**					
No hits reported in this sample.						
FA18988-8	**PLTSB-SO-006**					
No hits reported in this sample.						
FA18988-9	**PLTSB-SO-007**					
No hits reported in this sample.						
FA18988-10	**PLTSB-SO-008**					
No hits reported in this sample.						
FA18988-11	**PLTSB-SO-009**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA18988
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/06/14 thru 10/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18988-12	**PLTSB-SO-010**					
Perfluorohexanesulfonic acid		6.06 J	11	8.9	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		34.4	11	8.9	ug/kg	EPA 537 MOD
FA18988-13	**PLTSB-FT002P-BLK02**					
No hits reported in this sample.						
FA18988-14	**PLTSB-SO-011**					
Perfluorohexanesulfonic acid		6.43 J	12	9.8	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		40.7	12	9.8	ug/kg	EPA 537 MOD
FA18988-15	**PLTSB-SO-012**					
Perfluorohexanesulfonic acid		29.3	11	8.9	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		491	56	45	ug/kg	EPA 537 MOD
FA18988-16	**PLTSB-SO-013**					
Perfluorohexanesulfonic acid		9.04 J	12	9.3	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		263	23	19	ug/kg	EPA 537 MOD
FA18988-17	**PLTSB-SO-014**					
Perfluorohexanesulfonic acid		16.6	11	8.8	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		594	55	44	ug/kg	EPA 537 MOD
FA18988-18	**PLTSB-SO-015**					
Perfluorooctanoic acid		404	130	100	ug/kg	EPA 537 MOD
Perfluorohexanesulfonic acid		155	13	10	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		355	65	52	ug/kg	EPA 537 MOD
FA18988-19	**PLTSB-SO-016**					
Perfluoroheptanoic acid		5.46 J	12	9.4	ug/kg	EPA 537 MOD
Perfluorooctanoic acid		337	120	94	ug/kg	EPA 537 MOD
Perfluorohexanesulfonic acid		152	12	9.4	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		48.7	12	9.4	ug/kg	EPA 537 MOD
FA18988-20	**PLTSB-SO-017**					
Perfluorooctanoic acid		227	23	18	ug/kg	EPA 537 MOD

Summary of Hits

Job Number: FA18988
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/06/14 thru 10/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Perfluorohexanesulfonic acid		108	11	9.2	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		41.5	11	9.2	ug/kg	EPA 537 MOD
FA18988-21	**PLTSB-SO-019**					
Perfluorohexanesulfonic acid		17.1	13	11	ug/kg	EPA 537 MOD
FA18988-22	**PLTSB-SO-020**					
Perfluorohexanesulfonic acid		16.8	12	9.4	ug/kg	EPA 537 MOD
FA18988-23	**PLTSB-SO-031**					
Perfluorooctanesulfonic acid		22.9	12	9.7	ug/kg	EPA 537 MOD
FA18988-24	**PLTSB-SO-032**					
Perfluorooctanoic acid		13.7 J	24	19	ug/kg	EPA 537 MOD
Perfluorohexanesulfonic acid		21.8	12	9.7	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		1870	240	190	ug/kg	EPA 537 MOD
FA18988-25	**PLTSB-SO-033**					
Perfluorooctanoic acid		12.1 J	20	16	ug/kg	EPA 537 MOD
Perfluorohexanesulfonic acid		20.1	10	8.2	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		1810	200	160	ug/kg	EPA 537 MOD
FA18988-26	**PLTSB-SO-034**					
Perfluorooctanesulfonic acid		196	11	9.2	ug/kg	EPA 537 MOD
FA18988-27	**PLTSB-SO-035**					
Perfluorohexanesulfonic acid		4.89 J	11	9.1	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		328	57	46	ug/kg	EPA 537 MOD
FA18988-28	**PLTSB-SO-036**					
Perfluorohexanesulfonic acid		14.9	13	11	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		506	66	53	ug/kg	EPA 537 MOD
FA18988-29	**PLTSB-SO-037**					
Perfluorohexanesulfonic acid		16.6	12	9.4	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		40.1	12	9.4	ug/kg	EPA 537 MOD

Summary of Hits

Job Number: FA18988
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/06/14 thru 10/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18988-30	**PLTSB-SO-038**					
Perfluorohexanesulfonic acid		6.87 J	13	11	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		6.64 J	13	11	ug/kg	EPA 537 MOD
FA18988-31	**PLTSB-SO-039**					
Perfluorohexanesulfonic acid		10.6 J	15	12	ug/kg	EPA 537 MOD
FA18988-32	**PLTSB-SO-040**					
No hits reported in this sample.						
FA18988-33	**PLTSB-SO-041**					
No hits reported in this sample.						
FA18988-34	**PLTSB-SO-052**					
Perfluoroheptanoic acid		7.28 J	13	10	ug/kg	EPA 537 MOD
Perfluorooctanoic acid		18.0 J	25	20	ug/kg	EPA 537 MOD
Perfluorohexanesulfonic acid		46.0	13	10	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		1430	130	100	ug/kg	EPA 537 MOD
FA18988-35	**PLTSB-SO-053**					
Perfluorohexanesulfonic acid		6.97 J	13	10	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		809	130	100	ug/kg	EPA 537 MOD
FA18988-36	**PLTSB-FT002P-BLK04**					
Perfluorooctanesulfonic acid		0.0160 J	0.020	0.016	ug/l	EPA 537 MOD
FA18988-37	**PLTSB-SO-054**					
Perfluorohexanesulfonic acid		19.1	10	8.3	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		2010	210	170	ug/kg	EPA 537 MOD
FA18988-38	**PLTSB-SO-055**					
Perfluorohexanesulfonic acid		19.7	11	8.9	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		2170	220	180	ug/kg	EPA 537 MOD

Summary of Hits

Job Number: FA18988
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/06/14 thru 10/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18988-39	**PLTSB-SO-056**					
Perfluorohexanesulfonic acid		16.7	9.6	7.7	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		2200	190	150	ug/kg	EPA 537 MOD
FA18988-40	**PLTSB-SO-057**					
Perfluorohexanesulfonic acid		11.0 J	12	9.4	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		3500	290	240	ug/kg	EPA 537 MOD
FA18988-41	**PLTSB-SO-058**					
Perfluorohexanesulfonic acid		19.1	12	9.5	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		3480	300	240	ug/kg	EPA 537 MOD
FA18988-42	**PLTSB-SO-059**					
Perfluorohexanesulfonic acid		9.99 J	13	10	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		970	130	100	ug/kg	EPA 537 MOD
FA18988-43	**PLTSB-SO-060**					
No hits reported in this sample.						
FA18988-44	**PLTSB-SO-061**					
No hits reported in this sample.						
FA18988-45	**PLTSB-SO-062**					
No hits reported in this sample.						
FA18988-46	**PLTSB-SO-074**					
Perfluorohexanesulfonic acid		5.28 J	12	9.4	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		494	59	47	ug/kg	EPA 537 MOD
FA18988-47	**PLTSB-SO-075**					
Perfluorohexanesulfonic acid		5.37 J	13	10	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		968	64	52	ug/kg	EPA 537 MOD
FA18988-48	**PLTSB-SO-018**					
Perfluorooctanoic acid		43.5	25	20	ug/kg	EPA 537 MOD

Summary of Hits

Job Number: FA18988
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/06/14 thru 10/07/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Perfluorohexanesulfonic acid		24.9	12	9.9	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		5.01 J	12	9.9	ug/kg	EPA 537 MOD
FA18988-49	**PLTSB-SO-076**					
Perfluorohexanesulfonic acid		5.96 J	11	9.1	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		838	57	45	ug/kg	EPA 537 MOD
FA18988-50	**PLTSB-SO-077**					
Perfluorohexanesulfonic acid		10.2 J	13	10	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		2790	260	210	ug/kg	EPA 537 MOD
FA18988-51	**PLTSB-SO-078**					
Perfluorohexanesulfonic acid		9.04 J	12	9.8	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		1810	120	98	ug/kg	EPA 537 MOD
FA18988-52	**PLTSB-SO-079**					
Perfluorononanoic acid		6.67 J	13	10	ug/kg	EPA 537 MOD
Perfluorohexanesulfonic acid		9.93 J	13	10	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		2200	260	200	ug/kg	EPA 537 MOD
FA18988-53	**PLTSB-SO-080**					
Perfluorononanoic acid		7.59 J	11	8.8	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		299	22	18	ug/kg	EPA 537 MOD
FA18988-54	**PLTSB-SO-073**					
Perfluorohexanesulfonic acid		62.3	12	9.7	ug/kg	EPA 537 MOD
Perfluorooctanesulfonic acid		1460	120	97	ug/kg	EPA 537 MOD
FA18988-55	**PLTSB-FT002P-BLK03**					

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK01		
Lab Sample ID:	FA18988-1	**Date Sampled:**	10/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/08/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7640.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	101%		70-130%
	13C2-PFDA	105%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK08		
Lab Sample ID:	FA18988-2	**Date Sampled:**	10/06/14
Matrix:	AQ - Field Blank Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7641.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.033 U	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	98%		70-130%
	13C2-PFDA	84%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-001		
Lab Sample ID:	FA18988-3	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	95.6
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7422.D	1	10/13/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.01 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.2	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	6.0	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	10 U	13	10	5.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	102%		70-130%
	13C2-PFDA	89%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-002		
Lab Sample ID:	FA18988-4	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	98.1
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7423.D	1	10/13/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.01 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	60.0	13	10	5.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	86%		70-130%
	13C2-PFDA	76%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-003		
Lab Sample ID:	FA18988-5	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7424.D	1	10/13/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.02 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.1	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.1	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	6.07	13	10	5.1	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	97%		70-130%
	13C2-PFDA	86%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-004		
Lab Sample ID:	FA18988-6	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.0
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7425.D	1	10/13/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.02 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.1	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.1	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	10 U	13	10	5.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	100%		70-130%
	13C2-PFDA	88%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-005		
Lab Sample ID:	FA18988-7	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.0
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7426.D	1	10/13/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.11 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.4 U	12	9.4	4.7	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	23	19	9.4	ug/kg	
375-95-1	Perfluorononanoic acid	9.4 U	12	9.4	5.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	100%		70-130%
	13C2-PFDA	90%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-006		
Lab Sample ID:	FA18988-8	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.0
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7427.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.08 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.5 U	12	9.5	4.8	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	24	19	9.5	ug/kg	
375-95-1	Perfluorononanoic acid	9.5 U	12	9.5	5.5	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.5 U	12	9.5	4.8	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.5 U	12	9.5	4.8	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.5 U	12	9.5	4.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	99%		70-130%
	13C2-PFDA	90%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-007		
Lab Sample ID:	FA18988-9	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.2
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7428.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.15 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.9 U	11	8.9	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	22	18	8.9	ug/kg	
375-95-1	Perfluorononanoic acid	8.9 U	11	8.9	5.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	104%		70-130%
	13C2-PFDA	94%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-008		
Lab Sample ID:	FA18988-10	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	90.3
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7429.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.2	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	6.0	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	10 U	13	10	5.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	99%		70-130%
	13C2-PFDA	88%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-009		
Lab Sample ID:	FA18988-11	**Date Sampled:**	10/06/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	90.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7432.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.04 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.3	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.3	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	13	11	5.3	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	13	11	5.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	97%		70-130%
	13C2-PFDA	91%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-010		
Lab Sample ID:	FA18988-12	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	94.2
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7433.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.19 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.9 U	11	8.9	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	22	18	8.9	ug/kg	
375-95-1	Perfluorononanoic acid	8.9 U	11	8.9	5.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	6.06	11	8.9	4.5	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	34.4	11	8.9	4.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	97%		70-130%
	13C2-PFDA	90%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK02		
Lab Sample ID:	FA18988-13	**Date Sampled:**	10/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/08/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7642.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	102%		70-130%
	13C2-PFDA	97%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-011		
Lab Sample ID:	FA18988-14	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	93.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7528.D	1	10/16/14	NAF	10/10/14	OP53471	SQ254
Run #2							

	Initial Weight	Final Volume
Run #1	1.09 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.8 U	12	9.8	4.9	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	24	20	9.8	ug/kg	
375-95-1	Perfluorononanoic acid	9.8 U	12	9.8	5.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.8 U	12	9.8	4.9	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	6.43	12	9.8	4.9	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	40.7	12	9.8	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	105%		70-130%
	13C2-PFDA	89%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-012		
Lab Sample ID:	FA18988-15	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	94.1
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7437.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2	Q7529.D	5	10/16/14	NAF	10/10/14	OP53471	SQ254

	Initial Weight	Final Volume
Run #1	1.19 g	5.0 ml
Run #2	1.19 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.9 U	11	8.9	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	22	18	8.9	ug/kg	
375-95-1	Perfluorononanoic acid	8.9 U	11	8.9	5.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	29.3	11	8.9	4.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	491 [a]	56	45	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	95%	102%	70-130%
	13C2-PFDA	96%	92%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-013		
Lab Sample ID:	FA18988-16	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7438.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2	Q7530.D	2	10/16/14	NAF	10/10/14	OP53471	SQ254

	Initial Weight	Final Volume
Run #1	1.11 g	5.0 ml
Run #2	1.11 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.3 U	12	9.3	4.7	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	23	19	9.3	ug/kg	
375-95-1	Perfluorononanoic acid	9.3 U	12	9.3	5.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.3 U	12	9.3	4.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.04	12	9.3	4.7	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	263 [a]	23	19	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	91%	97%	70-130%
	13C2-PFDA	93%	88%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-014		
Lab Sample ID:	FA18988-17	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.6
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7439.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2	Q7531.D	5	10/16/14	NAF	10/10/14	OP53471	SQ254

	Initial Weight	Final Volume
Run #1	1.17 g	5.0 ml
Run #2	1.17 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.8 U	11	8.8	4.4	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	22	18	8.8	ug/kg	
375-95-1	Perfluorononanoic acid	8.8 U	11	8.8	5.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.8 U	11	8.8	4.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	16.6	11	8.8	4.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	594 [a]	55	44	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	101%	102%	70-130%
	13C2-PFDA	102%	91%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-015		
Lab Sample ID:	FA18988-18	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	93.2
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7440.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2	Q7532.D	5	10/16/14	NAF	10/10/14	OP53471	SQ254

	Initial Weight	Final Volume
Run #1	1.03 g	5.0 ml
Run #2	1.03 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.2	ug/kg	
335-67-1	Perfluorooctanoic acid	404 [a]	130	100	52	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	6.0	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	155	13	10	5.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	355 [a]	65	52	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	108%	106%	70-130%
	13C2-PFDA	97%	93%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-016		
Lab Sample ID:	FA18988-19	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	95.4
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7441.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2	Q7533.D	5	10/16/14	NAF	10/10/14	OP53471	SQ254

	Initial Weight	Final Volume
Run #1	1.12 g	5.0 ml
Run #2	1.12 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	5.46	12	9.4	4.7	ug/kg	J
335-67-1	Perfluorooctanoic acid	337 [a]	120	94	47	ug/kg	
375-95-1	Perfluorononanoic acid	9.4 U	12	9.4	5.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	152	12	9.4	4.7	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	48.7	12	9.4	4.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	105%	104%	70-130%
	13C2-PFDA	96%	88%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-017		
Lab Sample ID:	FA18988-20	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	90.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7442.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.20 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.2 U	11	9.2	4.6	ug/kg	
335-67-1	Perfluorooctanoic acid	227	23	18	9.2	ug/kg	
375-95-1	Perfluorononanoic acid	9.2 U	11	9.2	5.3	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.2 U	11	9.2	4.6	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	108	11	9.2	4.6	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	41.5	11	9.2	4.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	101%		70-130%
	13C2-PFDA	91%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-019		
Lab Sample ID:	FA18988-21	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	89.6
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7443.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.04 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.4	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	27	21	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	17.1	13	11	5.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	13	11	5.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	100%		70-130%
	13C2-PFDA	91%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-020		
Lab Sample ID:	FA18988-22	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	90.5
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7446.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.17 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.4 U	12	9.4	4.7	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	24	19	9.4	ug/kg	
375-95-1	Perfluorononanoic acid	9.4 U	12	9.4	5.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	16.8	12	9.4	4.7	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	96%		70-130%
	13C2-PFDA	84%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-031		
Lab Sample ID:	FA18988-23	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7447.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
Run #2							

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.7 U	12	9.7	4.8	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	24	19	9.7	ug/kg	
375-95-1	Perfluorononanoic acid	9.7 U	12	9.7	5.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.7 U	12	9.7	4.8	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.7 U	12	9.7	4.8	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	22.9	12	9.7	4.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	93%		70-130%
	13C2-PFDA	84%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-032		
Lab Sample ID:	FA18988-24	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.4
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7478.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2	Q7512.D	20	10/15/14	NAF	10/10/14	OP53472	SQ253

	Initial Weight	Final Volume
Run #1	1.06 g	5.0 ml
Run #2	1.06 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.7 U	12	9.7	4.8	ug/kg	
335-67-1	Perfluorooctanoic acid	13.7	24	19	9.7	ug/kg	J
375-95-1	Perfluorononanoic acid	9.7 U	12	9.7	5.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.7 U	12	9.7	4.8	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	21.8	12	9.7	4.8	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	1870 [a]	240	190	97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	88%	0% [b]	70-130%
	13C2-PFDA	80%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-033		
Lab Sample ID:	FA18988-25	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7483.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2	Q7515.D	20	10/15/14	NAF	10/10/14	OP53472	SQ253

	Initial Weight	Final Volume
Run #1	1.25 g	5.0 ml
Run #2	1.25 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.2 U	10	8.2	4.1	ug/kg	
335-67-1	Perfluorooctanoic acid	12.1	20	16	8.2	ug/kg	J
375-95-1	Perfluorononanoic acid	8.2 U	10	8.2	4.7	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.2 U	10	8.2	4.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	20.1	10	8.2	4.1	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	1810 [a]	200	160	82	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	85%	0% [b]	70-130%
	13C2-PFDA	79%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-034		
Lab Sample ID:	FA18988-26	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.6
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7484.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2							

	Initial Weight	Final Volume
Run #1	1.13 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.2 U	11	9.2	4.6	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	23	18	9.2	ug/kg	
375-95-1	Perfluorononanoic acid	9.2 U	11	9.2	5.3	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.2 U	11	9.2	4.6	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.2 U	11	9.2	4.6	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	196	11	9.2	4.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	91%		70-130%
	13C2-PFDA	84%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-035		
Lab Sample ID:	FA18988-27	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	95.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7485.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2	Q7516.D	5	10/15/14	NAF	10/10/14	OP53472	SQ253

	Initial Weight	Final Volume
Run #1	1.14 g	5.0 ml
Run #2	1.14 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.1 U	11	9.1	4.6	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	23	18	9.1	ug/kg	
375-95-1	Perfluorononanoic acid	9.1 U	11	9.1	5.3	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.1 U	11	9.1	4.6	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	4.89	11	9.1	4.6	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	328 [a]	57	46	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	90%	94%	70-130%
	13C2-PFDA	83%	90%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-036		
Lab Sample ID:	FA18988-28	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	92.3
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7486.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2	Q7517.D	5	10/15/14	NAF	10/10/14	OP53472	SQ253

	Initial Weight	Final Volume
Run #1	1.02 g	5.0 ml
Run #2	1.02 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.3	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	27	21	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.3	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	14.9	13	11	5.3	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	506 [a]	66	53	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	87%	86%	70-130%
	13C2-PFDA	80%	81%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-037		
Lab Sample ID:	FA18988-29	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7487.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2							

	Initial Weight	Final Volume
Run #1	1.09 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.4 U	12	9.4	4.7	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	23	19	9.4	ug/kg	
375-95-1	Perfluorononanoic acid	9.4 U	12	9.4	5.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	16.6	12	9.4	4.7	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	40.1	12	9.4	4.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	89%		70-130%
	13C2-PFDA	85%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-038		
Lab Sample ID:	FA18988-30	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	90.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7729.D	1	10/22/14	NAF	10/20/14	OP53585	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.02 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.4	ug/kg	
335-67-1	Perfluorooctanoic acid	22 U	27	22	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	6.87	13	11	5.4	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	6.64	13	11	5.4	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	77%		70-130%
	13C2-PFDA	87%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-039		
Lab Sample ID:	FA18988-31	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	80.4
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7489.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2							

	Initial Weight	Final Volume
Run #1	1.06 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	12 U	15	12	5.9	ug/kg	
335-67-1	Perfluorooctanoic acid	23 U	29	23	12	ug/kg	
375-95-1	Perfluorononanoic acid	12 U	15	12	6.7	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	12 U	15	12	5.9	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10.6	15	12	5.9	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	12 U	15	12	5.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	88%		70-130%
	13C2-PFDA	83%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-040		
Lab Sample ID:	FA18988-32	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	81.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7490.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2							

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	14	11	5.7	ug/kg	
335-67-1	Perfluorooctanoic acid	23 U	29	23	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	14	11	6.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	14	11	5.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	14	11	5.7	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	14	11	5.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	84%		70-130%
	13C2-PFDA	79%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-041		
Lab Sample ID:	FA18988-33	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	79.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7491.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
Run #2							

	Initial Weight	Final Volume
Run #1	1.24 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	10 U	13	10	5.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	86%		70-130%
	13C2-PFDA	82%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-052		
Lab Sample ID:	FA18988-34	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	92.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7536.D	1	10/16/14	NAF	10/10/14	OP53472	SQ254
Run #2	Q7519.D	10	10/15/14	NAF	10/10/14	OP53472	SQ253

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2	1.07 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	7.28	13	10	5.0	ug/kg	J
335-67-1	Perfluorooctanoic acid	18.0	25	20	10	ug/kg	J
375-95-1	Perfluorononanoic acid	10 U	13	10	5.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	46.0	13	10	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	1430 [a]	130	100	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	92%	110%	70-130%
	13C2-PFDA	81%	112%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-053		
Lab Sample ID:	FA18988-35	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7537.D	1	10/16/14	NAF	10/10/14	OP53472	SQ254
Run #2	Q7520.D	10	10/15/14	NAF	10/10/14	OP53472	SQ253

	Initial Weight	Final Volume
Run #1	1.02 g	5.0 ml
Run #2	1.02 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.1	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	6.97	13	10	5.1	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	809 [a]	130	100	51	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	86%	90%	70-130%
	13C2-PFDA	74%	90%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK04		
Lab Sample ID:	FA18988-36	**Date Sampled:**	10/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/08/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7643.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0160	0.020	0.016	0.0080	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	98%		70-130%
	13C2-PFDA	101%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-054		
Lab Sample ID:	FA18988-37	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7542.D	1	10/16/14	NAF	10/10/14	OP53472	SQ254
Run #2	Q7521.D	20	10/15/14	NAF	10/10/14	OP53472	SQ253

	Initial Weight	Final Volume
Run #1	1.24 g	5.0 ml
Run #2	1.24 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.3 U	10	8.3	4.2	ug/kg	
335-67-1	Perfluorooctanoic acid	17 U	21	17	8.3	ug/kg	
375-95-1	Perfluorononanoic acid	8.3 U	10	8.3	4.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.3 U	10	8.3	4.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	19.1	10	8.3	4.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	2010 [a]	210	170	83	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	92%	0% [b]	70-130%
	13C2-PFDA	84%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-055		
Lab Sample ID:	FA18988-38	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.5
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7503.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253
Run #2	Q7628.D	20	10/18/14	NAF	10/10/14	OP53472	SQ256

	Initial Weight	Final Volume
Run #1	1.16 g	5.0 ml
Run #2	1.16 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.9 U	11	8.9	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	22	18	8.9	ug/kg	
375-95-1	Perfluorononanoic acid	8.9 U	11	8.9	5.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	19.7	11	8.9	4.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	2170 [a]	220	180	89	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	86%	0% [b]	70-130%
	13C2-PFDA	90%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-056		
Lab Sample ID:	FA18988-39	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	95.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7504.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253
Run #2	Q7629.D	20	10/18/14	NAF	10/10/14	OP53472	SQ256

	Initial Weight	Final Volume
Run #1	1.36 g	5.0 ml
Run #2	1.36 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	7.7 U	9.6	7.7	3.8	ug/kg	
335-67-1	Perfluorooctanoic acid	15 U	19	15	7.7	ug/kg	
375-95-1	Perfluorononanoic acid	7.7 U	9.6	7.7	4.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	7.7 U	9.6	7.7	3.8	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	16.7	9.6	7.7	3.8	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	2200 [a]	190	150	77	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	87%	0% [b]	70-130%
	13C2-PFDA	88%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-057		
Lab Sample ID:	FA18988-40	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7505.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253
Run #2	Q7630.D	25	10/18/14	NAF	10/10/14	OP53472	SQ256

	Initial Weight	Final Volume
Run #1	1.10 g	5.0 ml
Run #2	1.10 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.4 U	12	9.4	4.7	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	24	19	9.4	ug/kg	
375-95-1	Perfluorononanoic acid	9.4 U	12	9.4	5.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11.0	12	9.4	4.7	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	3500 [a]	290	240	120	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	87%	0% [b]	70-130%
	13C2-PFDA	90%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-058		
Lab Sample ID:	FA18988-41	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	95.4
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7506.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253
Run #2	Q7631.D	25	10/18/14	NAF	10/10/14	OP53472	SQ256

	Initial Weight	Final Volume
Run #1	1.10 g	5.0 ml
Run #2	1.10 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.5 U	12	9.5	4.8	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	24	19	9.5	ug/kg	
375-95-1	Perfluorononanoic acid	9.5 U	12	9.5	5.5	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.5 U	12	9.5	4.8	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	19.1	12	9.5	4.8	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	3480 [a]	300	240	120	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	84%	0% [b]	70-130%
	13C2-PFDA	88%	97%	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-059		
Lab Sample ID:	FA18988-42	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	85.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7507.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253
Run #2	Q7632.D	10	10/18/14	NAF	10/10/14	OP53472	SQ256

	Initial Weight	Final Volume
Run #1	1.16 g	5.0 ml
Run #2	1.16 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.99	13	10	5.0	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	970 [a]	130	100	50	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	88%	93%	70-130%
	13C2-PFDA	90%	101%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-060		
Lab Sample ID:	FA18988-43	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	79.6
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7508.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253
Run #2							

	Initial Weight	Final Volume
Run #1	1.12 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	14	11	5.6	ug/kg	
335-67-1	Perfluorooctanoic acid	22 U	28	22	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	14	11	6.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	14	11	5.6	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	14	11	5.6	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	14	11	5.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	83%		70-130%
	13C2-PFDA	85%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-061		
Lab Sample ID:	FA18988-44	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	81.6
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7509.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253
Run #2							

	Initial Weight	Final Volume
Run #1	1.12 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	14	11	5.5	ug/kg	
335-67-1	Perfluorooctanoic acid	22 U	27	22	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	14	11	6.3	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	14	11	5.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	14	11	5.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	14	11	5.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	84%		70-130%
	13C2-PFDA	88%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-062		
Lab Sample ID:	FA18988-45	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	80.5
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7655.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2							

	Initial Weight	Final Volume
Run #1	1.03 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	12 U	15	12	6.0	ug/kg	
335-67-1	Perfluorooctanoic acid	24 U	30	24	12	ug/kg	
375-95-1	Perfluorononanoic acid	12 U	15	12	6.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	12 U	15	12	6.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	12 U	15	12	6.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	12 U	15	12	6.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	83%		70-130%
	13C2-PFDA	88%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-074		
Lab Sample ID:	FA18988-46	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.4
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7660.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2	Q7744.D	5	10/22/14	NAF	10/15/14	OP53512	SQ259

	Initial Weight	Final Volume
Run #1	1.09 g	5.0 ml
Run #2	1.09 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.4 U	12	9.4	4.7	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	24	19	9.4	ug/kg	
375-95-1	Perfluorononanoic acid	9.4 U	12	9.4	5.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	5.28	12	9.4	4.7	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	494 [a]	59	47	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	84%	81%	70-130%
	13C2-PFDA	88%	85%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-075		
Lab Sample ID:	FA18988-47	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.1
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7661.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2	Q7745.D	5	10/22/14	NAF	10/15/14	OP53512	SQ259

	Initial Weight	Final Volume
Run #1	1.01 g	5.0 ml
Run #2	1.01 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.2	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	5.37	13	10	5.2	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	968 [a]	64	52	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	80%	83%	70-130%
	13C2-PFDA	84%	88%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-018		
Lab Sample ID:	FA18988-48	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	94.2
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7743.D	1	10/22/14	NAF	10/15/14	OP53512	SQ259
Run #2							

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.9 U	12	9.9	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	43.5	25	20	9.9	ug/kg	
375-95-1	Perfluorononanoic acid	9.9 U	12	9.9	5.7	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.9 U	12	9.9	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	24.9	12	9.9	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	5.01	12	9.9	5.0	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	80%		70-130%
	13C2-PFDA	79%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-076		
Lab Sample ID:	FA18988-49	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	95.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7663.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2	Q7746.D	5	10/22/14	NAF	10/15/14	OP53512	SQ259

	Initial Weight	Final Volume
Run #1	1.15 g	5.0 ml
Run #2	1.15 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.1 U	11	9.1	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	23	18	9.1	ug/kg	
375-95-1	Perfluorononanoic acid	9.1 U	11	9.1	5.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.1 U	11	9.1	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	5.96	11	9.1	4.5	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	838 [a]	57	45	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	85%	79%	70-130%
	13C2-PFDA	86%	86%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-077		
Lab Sample ID:	FA18988-50	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	92.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7664.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2	Q7747.D	20	10/22/14	NAF	10/15/14	OP53512	SQ259

	Initial Weight	Final Volume
Run #1	1.04 g	5.0 ml
Run #2	1.04 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.2	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	6.0	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10.2	13	10	5.2	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	2790 [a]	260	210	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	83%	0% [b]	70-130%
	13C2-PFDA	85%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-078		
Lab Sample ID:	FA18988-51	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	95.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7665.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2	Q7753.D	10	10/22/14	NAF	10/15/14	OP53512	SQ259

	Initial Weight	Final Volume
Run #1	1.06 g	5.0 ml
Run #2	1.06 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.8 U	12	9.8	4.9	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	9.8	ug/kg	
375-95-1	Perfluorononanoic acid	9.8 U	12	9.8	5.7	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.8 U	12	9.8	4.9	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.04	12	9.8	4.9	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	1810 [a]	120	98	49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	84%	87%	70-130%
	13C2-PFDA	89%	91%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-079		
Lab Sample ID:	FA18988-52	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	89.6
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7666.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2	Q7754.D	20	10/22/14	NAF	10/15/14	OP53512	SQ259

	Initial Weight	Final Volume
Run #1	1.09 g	5.0 ml
Run #2	1.09 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.1	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	26	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	6.67	13	10	5.9	ug/kg	J
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.93	13	10	5.1	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	2200 [a]	260	200	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	83%	0% [b]	70-130%
	13C2-PFDA	87%	0% [b]	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-080		
Lab Sample ID:	FA18988-53	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.1
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7667.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2	Q7755.D	2	10/22/14	NAF	10/15/14	OP53512	SQ259

	Initial Weight	Final Volume
Run #1	1.18 g	5.0 ml
Run #2	1.18 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.8 U	11	8.8	4.4	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	22	18	8.8	ug/kg	
375-95-1	Perfluorononanoic acid	7.59	11	8.8	5.1	ug/kg	J
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.8 U	11	8.8	4.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.8 U	11	8.8	4.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	299 [a]	22	18	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	82%	81%	70-130%
	13C2-PFDA	87%	86%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-073		
Lab Sample ID:	FA18988-54	**Date Sampled:**	10/07/14
Matrix:	SO - Soil	**Date Received:**	10/08/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.4
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7668.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
Run #2	Q7756.D	10	10/22/14	NAF	10/15/14	OP53512	SQ259

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2	1.07 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.7 U	12	9.7	4.8	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	24	19	9.7	ug/kg	
375-95-1	Perfluorononanoic acid	9.7 U	12	9.7	5.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.7 U	12	9.7	4.8	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	62.3	12	9.7	4.8	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	1460 [a]	120	97	48	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	87%	84%	70-130%
	13C2-PFDA	83%	93%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK03		
Lab Sample ID:	FA18988-55	**Date Sampled:**	10/07/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/08/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7606.D	1	10/18/14	NAF	10/17/14	OP53564	SQ256
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.033 U	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	101%		70-130%
	13C2-PFDA	106%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA18988

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Atten: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/7/2014
COC #: AC_10720145
PAGE: 1 OF 5

[redacted]

Sample Information						Methods for Analysis	RUSH		
No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)		TOTAL BOTTLES	HOLD All Analyses
1	PLTSB-FT002P-BLK01	10/07/14 07:10	WQ	EB	N	X			
2	PLTSB-FT002P-BLK08	~~10/07/14 07:15~~	WQ	fB	N	X			
3	PLTSB-SO-001	10/06/14 13:45	SO	N	N	X			
4	PLTSB-SO-002	10/06/14 14:00	SO	N	N	X			
5	PLTSB-SO-003	10/06/14 14:13	SO	N	N	X			
6	PLTSB-SO-004	10/06/14 14:25	SO	N	N	X			
7	PLTSB-SO-005	10/06/14 14:35	SO	N	N	X			
8	PLTSB-SO-006	10/06/14 15:10	SO	N	N	X			
9	PLTSB-SO-007	10/06/14 15:20	SO	N	N	X			
10	PLTSB-SO-008	10/06/14 15:45	SO	N	N	X			
11	PLTSB-SO-009	10/06/14 16:00	SO	N	N	X			
12	PLTSB-SO-010	10/07/14 08:13	SO	N	N	X			

10/6/14 7:58P MM

Sampler's Signature:	Date:	Time:
Relinquished By/Affiliation:	Date:	Time:
Received By:	Date:	Time:
Relinquished By/Affiliation:	Date:	Time:
Received By: Ft	Date:	Time:
Relinquished By/Affiliation: Ft	Date:	Time:
Received By (LAB): J. Coppe (Alsa)	Date: 10-8-14	Time: 09:15

For Lab Use	
Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

4.0

5.1 5

FA18988: Chain of Custody
Page 1 of 8

FA 18988

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Attn: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/7/2014
COC #: AC_10720145
PAGE: 2 OF 5

	Sample Information						Methods for Analysis	RUSH		
JC	No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)		TOTAL BOTTLES	HOLD All Analyses
13	1	PLTSB-FT002P-BLK02	10/07/14 10:30	WQ	EB	N	X			
14	2	PLTSB-SO-011	10/07/14 08:13	SO	FD	N	X			
15	3	PLTSB-SO-012	10/07/14 09:00	SO	N	N	X			
16	4	PLTSB-SO-013	10/07/14 09:12	SO	N	N	X			
17	5	PLTSB-SO-014	10/07/14 09:20	SO	N	N	X			
18	6	PLTSB-SO-015	10/07/14 09:30	SO	N	N	X			
19	7	PLTSB-SO-016	10/07/14 09:38	SO	N	N	X			
20	8	PLTSB-SO-017	10/07/14 09:50	SO	N	N	X			
21	9	PLTSB-SO-019	10/07/14 10:15	SO	N	N	X			
22	10	PLTSB-SO-020	10/07/14 10:15	SO	N	Y	X			
23	11	PLTSB-SO-031	10/07/14 11:10	SO	N	N	X			
24	12	PLTSB-SO-032	10/07/14 11:25	SO	N	N	X			

Sampler's Signature:	Date:	Time:
Relinquished By/Affiliation:	Date:	Time:
Received By:	Date:	Time:
Relinquished By/Affiliation:	Date:	Time:
Received By: FX	Date:	Time:
Relinquished By/Affiliation: FX	Date:	Time:
Received By (LAB): J. Cooper (ATSE)	Date: 10-8-14	Time: 09:15

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

5.1 5

FA18988: Chain of Custody
Page 2 of 8

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4405 Vineland Road
Orlando, FL
Atten: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/7/2014
COC #: AC_10720145
PAGE: 3 OF 5

	No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)	TOTAL BOTTLES	HOLD All Analyses
25	1	PLTSB-SO-033	10/07/14 11:25	SO	FD	N	X		
26	2	PLTSB-SO-034	10/07/14 11:40	SO	N	N	X		
27	3	PLTSB-SO-035	10/07/14 11:50	SO	N	N	X		
28	4	PLTSB-SO-036	10/07/14 12:00	SO	N	N	X		
29	5	PLTSB-SO-037	10/07/14 12:05	SO	N	N	X		
30	6	PLTSB-SO-038	10/07/14 12:20	SO	N	N	X		
31	7	PLTSB-SO-039	10/07/14 12:30	SO	N	N	X		
32	8	PLTSB-SO-040	10/07/14 12:40	SO	N	N	X		
33	9	PLTSB-SO-041	10/07/14 12:40	SO	N	Y	X		
34	10	PLTSB-SO-052	10/07/14 13:35	SO	N	N	X		
35	11	PLTSB-SO-053	10/07/14 13:50	SO	N	N	X		
	12								

Sample Information

Methods for Analysis

RUSH

Sampler's Signature:		Date:	Time:
Relinquished By/Affiliation:		Date:	Time:
Received By:		Date:	Time:
Relinquished By/Affiliation:		Date:	Time:
Received By:	FX	Date:	Time:
Relinquished By/Affiliation:	FX	Date:	Time:
Received By (LAB):	J. Coppe (ALS&E)	Date: 10-8-14	Time: 09:15

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

5.1 5

FA18988: Chain of Custody
Page 3 of 8

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4405 Vineland Road
Orlando, FL
Atten: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/7/2014
COC #: AC_10720145
PAGE: 4 OF 5

Sample Information						Methods for Analysis	RUSH		
No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)		TOTAL BOTTLES	HOLD All Analysis
1	PLTSB-FT002P-BLK04	10/07/14 15:15	WQ	EB	N	X			
2	PLTSB-SO-054	10/07/14 14:00	SO	N	N	X			
3	PLTSB-SO-055	10/07/14 14:00	SO	FD	N	X			
4	PLTSB-SO-056	10/07/14 14:12	SO	N	N	X			
5	PLTSB-SO-057	10/07/14 14:19	SO	N	N	X			
6	PLTSB-SO-058	10/07/14 14:28	SO	N	N	X			
7	PLTSB-SO-059	10/07/14 14:38	SO	N	N	X			
8	PLTSB-SO-060	10/07/14 14:50	SO	N	N	X			
9	PLTSB-SO-061	10/07/14 15:05	SO	N	N	X			
10	PLTSB-SO-062	10/07/14 15:05	SO	N	Y	X			
11	PLTSB-SO-074	10/07/14 16:10	SO	N	N	X			
12	PLTSB-SO-075	10/07/14 16:16	SO	N	N	X			

Sampler's Signature:	Date:	Time:
Relinquished By/Affiliation:	Date:	Time:
Received By:	Date:	Time:
Relinquished By/Affiliation:	Date:	Time:
Received By: FX	Date:	Time:
Relinquished By/Affiliation: FX	Date:	Time:
Received By (LAB): Connie (ALS)	Date: 10-8-14	Time: 09:15

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

5.1 5

FA18988: Chain of Custody
Page 4 of 8

FA18988

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Attn: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/7/2014
COC #: AC_10720145
PAGE: 5 OF 5

Sample Information						Methods for Analysis	RUSH		
No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)		TOTAL BOTTLES	HOLD All Analytes
48	PLTSB-SO-018	10/07/14 00:00	SO	N	N	X			
49	PLTSB-SO-076	10/07/14 16:16	SO	N	N	X			
50	PLTSB-SO-077	10/07/14 16:25	SO	N	N	X			
51	PLTSB-SO-078	10/07/14 16:32	SO	N	N	X			
52	PLTSB-SO-079	10/07/14 16:46	SO	N	N	X			
53	PLTSB-SO-080	10/07/14 17:00	SO	N	N	X			
7									
8									
9									
10									
11									
12									

Sampler's Signature:	Date:	Time:
Relinquished By/Affiliation:	Date:	Time:
Received By:	Date:	Time:
Relinquished By/Affiliation:	Date:	Time:
Received By: FX	Date:	Time:
Relinquished By/Affiliation: FX	Date:	Time:
Received By (LAB): J. Copse (Alsa)	Date: 10-8-14	Time: 09:15

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

5.1 5

FA18988: Chain of Custody
Page 5 of 8

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 18988 CLIENT: AMEC PROJECT: PLATTSBURGH AFB

DATE/TIME RECEIVED: 10-8-14 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8063 1884 2421

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 4.0

SAMPLE INFORMATION

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

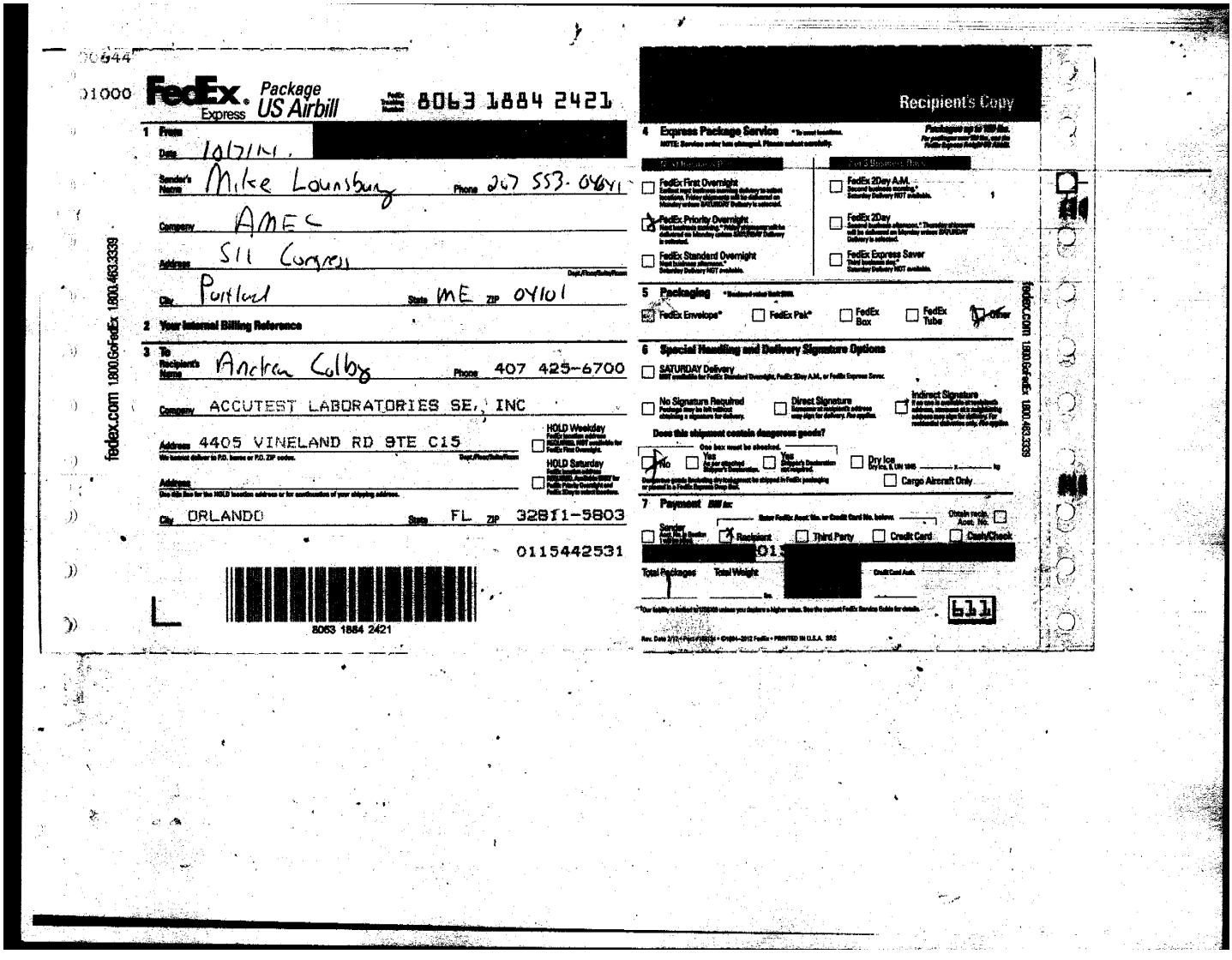
{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: RECEIVED 2 EXTRA SOIL VOAS WITH ID PLTSB-SO-073 10-7-14 @ 15:42 PLTSB-FT002-P-BLK03 10-7-14 @ 13:21 (WATER) - SOIL WILL BE SAMPLES S4, S5

TECHNICIAN SIGNATURE/DATE: 10-8-14 REVIEWER SIGNATURE/DATE: 10-08-14

RS 04/14

receipt confirmation 041514.xls



FedEx Express Package US Airbill 8063 1884 2421

Recipient's Copy

1 From
Date 10/7/14
Sender's Name Mike Lounsbury Phone 207 553-04[illegible]
Company AMES
Address 511 Congress
City Portland State ME ZIP 04101

2 Your Internal Billing Reference

3 To
Recipient's Name Andrea Colby Phone 407 425-6700
Company ACCUTEST LABORATORIES SE, INC
Address 4405 VINELAND RD STE C15
City ORLANDO State FL ZIP 32811-5803

0115442531

8063 1884 2421

4 Express Package Service
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
FedEx 2Day A.M.
FedEx 2Day
FedEx Express Saver

5 Packaging
FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required Direct Signature Indirect Signature
Does this shipment contain dangerous goods?
No Yes Yes Dry Ice Cargo Aircraft Only

7 Payment
Recipient Third Party Credit Card Cash/Check

fedex.com 1800.GoFedEx 1800.463.3339

5.1

5

FA18988: Chain of Custody
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Job Change Order: FA18988_10/9/2014

Requested	10/9/2014	**Received Date:**	10/8/2014
Account	AMEC Environment &	**Due Date:**	10/20/2014
Project	Plattsburgh AFB; Plattsburgh, NY	**Deliverable:**	FULT1
CSR:	AC	**TAT (Days):**	10

Sample #:
FA18988-54, 55

Change: Please analyze the two extra samples that were received but not listed on the COC for PFCs.

Above Changes Per: Mike Lounsbury **Date:** 10/9/2014

FA18988: Chain of Custody
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To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

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Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53471-MB	Q7421.D	1	10/13/14	NAF	10/10/14	OP53471	SQ251

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-3, FA18988-4, FA18988-5, FA18988-6, FA18988-7, FA18988-8, FA18988-9, FA18988-10, FA18988-11, FA18988-12, FA18988-14, FA18988-15, FA18988-16, FA18988-17, FA18988-18, FA18988-19, FA18988-20, FA18988-21, FA18988-22, FA18988-23

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	94%	70-130%
	13C2-PFDA	84%	70-130%

Method Blank Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53472-MB	Q7476.D	1	10/14/14	NAF	10/10/14	OP53472	SQ252

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-24, FA18988-25, FA18988-26, FA18988-27, FA18988-28, FA18988-29, FA18988-31, FA18988-32, FA18988-33, FA18988-34, FA18988-35, FA18988-37, FA18988-38, FA18988-39, FA18988-40, FA18988-41, FA18988-42, FA18988-43, FA18988-44

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	91%	70-130%
	13C2-PFDA	87%	70-130%

Method Blank Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53472-MB	Q7502.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-24, FA18988-25, FA18988-26, FA18988-27, FA18988-28, FA18988-29, FA18988-31, FA18988-32, FA18988-33, FA18988-34, FA18988-35, FA18988-37, FA18988-38, FA18988-39, FA18988-40, FA18988-41, FA18988-42, FA18988-43, FA18988-44

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	89%	70-130%
	13C2-PFDA	90%	70-130%

Method Blank Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53492-MB	Q7638.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-1, FA18988-2, FA18988-13, FA18988-36

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	102%	70-130%

Method Blank Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-MB	Q7654.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-45, FA18988-46, FA18988-47, FA18988-48, FA18988-49, FA18988-50, FA18988-51, FA18988-52, FA18988-53, FA18988-54

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	88%	70-130%
	13C2-PFDA	90%	70-130%

Method Blank Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-MB	Q7677.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-45, FA18988-46, FA18988-47, FA18988-48, FA18988-49, FA18988-50, FA18988-51, FA18988-52, FA18988-53, FA18988-54

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	90%	70-130%
	13C2-PFDA	113%	70-130%

Method Blank Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53564-MB	Q7604.D	1	10/18/14	NAF	10/17/14	OP53564	SQ256

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-55

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	92%	70-130%

Method Blank Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53585-MB	Q7728.D	1	10/22/14	NAF	10/20/14	OP53585	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-30

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	70%	70-130%
	13C2-PFDA	80%	70-130%

Blank Spike Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53471-BS	Q7420.D	1	10/13/14	NAF	10/10/14	OP53471	SQ251

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-3, FA18988-4, FA18988-5, FA18988-6, FA18988-7, FA18988-8, FA18988-9, FA18988-10, FA18988-11, FA18988-12, FA18988-14, FA18988-15, FA18988-16, FA18988-17, FA18988-18, FA18988-19, FA18988-20, FA18988-21, FA18988-22, FA18988-23

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	85.5	86	70-130
335-67-1	Perfluorooctanoic acid	100	95.7	96	70-130
375-95-1	Perfluorononanoic acid	100	118	118	70-130
375-73-5	Perfluorobutanesulfonic acid	100	112	112	70-130
355-46-4	Perfluorohexanesulfonic acid	100	108	108	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	100	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	106%	70-130%
	13C2-PFDA	93%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53472-BS	Q7477.D	1	10/14/14	NAF	10/10/14	OP53472	SQ252

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-24, FA18988-25, FA18988-26, FA18988-27, FA18988-28, FA18988-29, FA18988-31, FA18988-32, FA18988-33, FA18988-34, FA18988-35, FA18988-37, FA18988-38, FA18988-39, FA18988-40, FA18988-41, FA18988-42, FA18988-43, FA18988-44

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	74.5	75	70-130
335-67-1	Perfluorooctanoic acid	100	88.1	88	70-130
375-95-1	Perfluorononanoic acid	100	120	120	70-130
375-73-5	Perfluorobutanesulfonic acid	100	91.1	91	70-130
355-46-4	Perfluorohexanesulfonic acid	100	90.7	91	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	86.4	86	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	89%	70-130%
	13C2-PFDA	80%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53472-BS	Q7501.D	1	10/15/14	NAF	10/10/14	OP53472	SQ253

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-24, FA18988-25, FA18988-26, FA18988-27, FA18988-28, FA18988-29, FA18988-31, FA18988-32, FA18988-33, FA18988-34, FA18988-35, FA18988-37, FA18988-38, FA18988-39, FA18988-40, FA18988-41, FA18988-42, FA18988-43, FA18988-44

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	79.8	80	70-130
335-67-1	Perfluorooctanoic acid	100	94.4	94	70-130
375-95-1	Perfluorononanoic acid	100	120	120	70-130
375-73-5	Perfluorobutanesulfonic acid	100	92.7	93	70-130
355-46-4	Perfluorohexanesulfonic acid	100	96.8	97	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	94.3	94	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	94%	70-130%
	13C2-PFDA	93%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53492-BS	Q7637.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-1, FA18988-2, FA18988-13, FA18988-36

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.113	71	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.119	74	70-130
375-95-1	Perfluorononanoic acid	0.16	0.133	83	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.114	71	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.119	74	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.118	74	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	111%	70-130%
	13C2-PFDA	103%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-BS	Q7653.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-45, FA18988-46, FA18988-47, FA18988-48, FA18988-49, FA18988-50, FA18988-51, FA18988-52, FA18988-53, FA18988-54

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	70.6	71	70-130
335-67-1	Perfluorooctanoic acid	100	80.1	80	70-130
375-95-1	Perfluorononanoic acid	100	97.6	98	70-130
375-73-5	Perfluorobutanesulfonic acid	100	78.7	79	70-130
355-46-4	Perfluorohexanesulfonic acid	100	75.1	75	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	82.7	83	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	79%	70-130%
	13C2-PFDA	79%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-BS	Q7676.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-45, FA18988-46, FA18988-47, FA18988-48, FA18988-49, FA18988-50, FA18988-51, FA18988-52, FA18988-53, FA18988-54

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	70.1	70	70-130
335-67-1	Perfluorooctanoic acid	100	81.5	82	70-130
375-95-1	Perfluorononanoic acid	100	86.1	86	70-130
375-73-5	Perfluorobutanesulfonic acid	100	72.6	73	70-130
355-46-4	Perfluorohexanesulfonic acid	100	81.9	82	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	75.9	76	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	84%	70-130%
	13C2-PFDA	105%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53564-BS	Q7603.D	1	10/18/14	NAF	10/17/14	OP53564	SQ256

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-55

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.164	103	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.186	116	70-130
375-95-1	Perfluorononanoic acid	0.16	0.182	114	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.144	90	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.155	97	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.171	107	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	112%	70-130%
	13C2-PFDA	110%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53585-BS	Q7727.D	1	10/22/14	NAF	10/20/14	OP53585	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-30

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	70.0	70	70-130
335-67-1	Perfluorooctanoic acid	100	79.0	79	70-130
375-95-1	Perfluorononanoic acid	100	92.5	93	70-130
375-73-5	Perfluorobutanesulfonic acid	100	72.9	73	70-130
355-46-4	Perfluorohexanesulfonic acid	100	86.2	86	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	82.5	83	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	80%	70-130%
	13C2-PFDA	86%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53471-MS	Q7534.D	5	10/16/14	NAF	10/10/14	OP53471	SQ254
OP53471-MSD	Q7535.D	5	10/16/14	NAF	10/10/14	OP53471	SQ254
FA18988-19	Q7441.D	1	10/14/14	NAF	10/10/14	OP53471	SQ251
FA18988-19	Q7533.D	5	10/16/14	NAF	10/10/14	OP53471	SQ254

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-3, FA18988-4, FA18988-5, FA18988-6, FA18988-7, FA18988-8, FA18988-9, FA18988-10, FA18988-11, FA18988-12, FA18988-14, FA18988-15, FA18988-16, FA18988-17, FA18988-18, FA18988-19, FA18988-20, FA18988-21, FA18988-22, FA18988-23

CAS No.	Compound	FA18988-19 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	5.46	J	87.4	68.8	73	92.8	78.9	79	14	70-130/30
335-67-1	Perfluorooctanoic acid	337 [b]		87.4	410	84	92.8	398	66* [a]	3	70-130/30
375-95-1	Perfluorononanoic acid	12 U		87.4	86.5	99	92.8	101	109	15	70-130/30
375-73-5	Perfluorobutanesulfonic acid	12 U		87.4	85.9	98	92.8	91.5	99	6	70-130/30
355-46-4	Perfluorohexanesulfonic acid	152		87.4	257	120	92.8	250	106	3	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	48.7		87.4	118	79	92.8	133	91	12	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18988-19	FA18988-19	Limits
	13C2-PFHxA	96%	97%	105%	104%	70-130%
	13C2-PFDA	80%	87%	96%	88%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53472-MS	Q7513.D	20	10/15/14	NAF	10/10/14	OP53472	SQ253
OP53472-MSD	Q7514.D	20	10/15/14	NAF	10/10/14	OP53472	SQ253
FA18988-24	Q7478.D	1	10/15/14	NAF	10/10/14	OP53472	SQ252
FA18988-24	Q7512.D	20	10/15/14	NAF	10/10/14	OP53472	SQ253

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-24, FA18988-25, FA18988-26, FA18988-27, FA18988-28, FA18988-29, FA18988-31, FA18988-32, FA18988-33, FA18988-34, FA18988-35, FA18988-37, FA18988-38, FA18988-39, FA18988-40, FA18988-41, FA18988-42, FA18988-43, FA18988-44

CAS No.	Compound	FA18988-24 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	12 U		85.6	ND	0*	90.9	ND	0*	nc	70-130/30
335-67-1	Perfluorooctanoic acid	13.7	J	85.6	ND	-16*	90.9	ND	-15*	nc	70-130/30
375-95-1	Perfluorononanoic acid	12 U		85.6	104	122	90.9	112	123	7	70-130/30
375-73-5	Perfluorobutanesulfonic acid	12 U		85.6	ND	0*	90.9	ND	0*	nc	70-130/30
355-46-4	Perfluorohexanesulfonic acid	21.8		85.6	109	102	90.9	113	100	4	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	1870 [b]		85.6	1890	23* [a]	90.9	1850	-22* [a]	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18988-24	FA18988-24	Limits
	13C2-PFHxA	0%* [c]	0%* [c]	88%	0%* [c]	70-130%
	13C2-PFDA	0%* [c]	0%* [c]	80%	0%* [c]	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53492-MS	Q7645.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257
OP53492-MSD	Q7646.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257
FA18923-3	Q7644.D	1	10/20/14	NAF	10/13/14	OP53492	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-1, FA18988-2, FA18988-13, FA18988-36

CAS No.	Compound	FA18923-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.020	U	0.16	0.140	88	0.16	0.136	85	3	70-130/30
335-67-1	Perfluorooctanoic acid	0.040	U	0.16	0.161	101	0.16	0.155	97	4	70-130/30
375-95-1	Perfluorononanoic acid	0.020	U	0.16	0.185	116	0.16	0.186	116	1	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.020	U	0.16	0.160	100	0.16	0.151	94	6	70-130/30
355-46-4	Perfluorohexanesulfonic acid	0.020	U	0.16	0.146	91	0.16	0.144	90	1	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.020	U	0.16	0.155	97	0.16	0.157	98	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18923-3	Limits
	13C2-PFHxA	102%	98%	101%	70-130%
	13C2-PFDA	91%	93%	101%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-MS	Q7656.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
OP53512-MSD	Q7657.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
FA18988-45	Q7655.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-45, FA18988-46, FA18988-47, FA18988-48, FA18988-49, FA18988-50, FA18988-51, FA18988-52, FA18988-53, FA18988-54

CAS No.	Compound	FA18988-45 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	15 U		118	87.2	74	111	82.4	74	6	70-130/30
335-67-1	Perfluorooctanoic acid	30 U		118	103	87	111	95.1	86	8	70-130/30
375-95-1	Perfluorononanoic acid	15 U		118	122	103	111	114	103	7	70-130/30
375-73-5	Perfluorobutanesulfonic acid	15 U		118	99.8	84	111	92.1	83	8	70-130/30
355-46-4	Perfluorohexanesulfonic acid	15 U		118	112	95	111	104	94	7	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	15 U		118	105	89	111	97.4	88	8	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18988-45	Limits
	13C2-PFHxA	84%	83%	83%	70-130%
	13C2-PFDA	83%	82%	88%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53564-MS	Q7608.D	100	10/18/14	NAF	10/17/14	OP53564	SQ256
OP53564-MSD	Q7609.D	100	10/18/14	NAF	10/17/14	OP53564	SQ256
FA19153-1	Q7607.D	100	10/18/14	NAF	10/17/14	OP53564	SQ256
FA19153-1	Q7757.D	500	10/22/14	NAF	10/17/14	OP53564	SQ259

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-55

CAS No.	Compound	FA19153-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.984	J	0.167	1.56	346* [a]	0.167	1.60	370* [a]	3	70-130/30
335-67-1	Perfluorooctanoic acid	1.28	J	0.167	ND	-768* [a]	0.167	ND	-768* [a]	nc	70-130/30
375-95-1	Perfluorononanoic acid	ND		0.167	ND	0*	0.167	ND	0*	nc	70-130/30
375-73-5	Perfluorobutanesulfonic acid	ND		0.167	ND	0*	0.167	ND	0*	nc	70-130/30
355-46-4	Perfluorohexanesulfonic acid	ND		0.167	ND	0*	0.167	ND	0*	nc	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	ND		0.167	ND	0*	0.167	ND	0*	nc	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA19153-1	FA19153-1	Limits
	13C2-PFHxA	0%* [b]	0%* [b]	0%* [b]	0%* [b]	70-130%
	13C2-PFDA	0%* [b]	0%* [b]	0%* [b]	0%* [b]	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to dilution.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53585-MS	Q7730.D	1	10/22/14	NAF	10/20/14	OP53585	SQ258
OP53585-MSD	Q7731.D	1	10/22/14	NAF	10/20/14	OP53585	SQ258
FA18988-30	Q7729.D	1	10/22/14	NAF	10/20/14	OP53585	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18988-30

CAS No.	Compound	FA18988-30 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	13 U		80.4	59.5	74	88.1	63.9	73	7	70-130/30
335-67-1	Perfluorooctanoic acid	27 U		80.4	68.8	86	88.1	77.2	88	12	70-130/30
375-95-1	Perfluorononanoic acid	13 U		80.4	76.7	95	88.1	83.1	94	8	70-130/30
375-73-5	Perfluorobutanesulfonic acid	13 U		80.4	64.4	80	88.1	70.7	80	9	70-130/30
355-46-4	Perfluorohexanesulfonic acid	6.87	J	80.4	79.3	90	88.1	83.7	87	5	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	6.64	J	80.4	76.8	87	88.1	86.2	90	12	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18988-30	Limits
	13C2-PFHxA	78%	79%	77%	70-130%
	13C2-PFDA	87%	88%	87%	70-130%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/13/14
Lab File ID:	Q7418.D	**Injection Time:**	21:12
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	36637	5.88	18223	6.47	30369	9.72
Upper Limit [c]	57426	6.88	22568	7.47	39822	10.72
Lower Limit [d]	19142	4.88	7523	5.47	13274	8.72

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53471-BS	33697	5.88	16335	6.47	27776	9.72
OP53471-MB	36230	5.90	17470	6.48	29286	9.72
FA18988-3	38244	5.88	18536	6.48	31930	9.72
FA18988-4	37201	5.90	17865	6.48	30187	9.72
FA18988-5	38551	5.90	18692	6.48	31083	9.72
FA18988-6	37285	5.90	18002	6.48	30105	9.72
FA18988-7	37654	5.90	18035	6.48	30212	9.72
FA18988-8	39219	5.90	18885	6.48	31063	9.73
FA18988-9	39362	5.90	19130	6.48	31243	9.73
FA18988-10	37391	5.90	17916	6.48	29350	9.73

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/14/14
Lab File ID:	Q7430.D	**Injection Time:**	01:03
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	34794	5.90	17156	6.48	28746	9.73
Upper Limit [c]	57426	6.90	22568	7.48	39822	10.73
Lower Limit [d]	19142	4.90	7523	5.48	13274	8.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-11	38600	5.90	18493	6.48	29924	9.75
FA18988-12	39727	5.90	18890	6.48	32101	9.75

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/14/14
Lab File ID:	Q7434.D	**Injection Time:**	08:16
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	40399	5.92	19219	6.51	34454	9.65
Upper Limit [c]	57426	6.92	22568	7.51	39822	10.65
Lower Limit [d]	19142	4.92	7523	5.51	13274	8.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-15	41031	5.91	17521	6.49	33469	9.79
FA18988-16	40193	5.90	18264	6.48	32063	9.77
FA18988-17	44325	5.90	17752	6.48	35719	9.76
FA18988-18	35719	5.88	16863	6.47	32835	9.75
FA18988-19	39648	5.88	20512	6.47	35998	9.72
FA18988-20	39467	5.87	19478	6.47	36552	9.71
FA18988-21	41581	5.87	20190	6.46	35331	9.70

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/14/14
Lab File ID:	Q7444.D	**Injection Time:**	11:39
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	37263	5.87	18368	6.46	32336	9.70
Upper Limit [c]	57426	6.87	22568	7.46	39822	10.70
Lower Limit [d]	19142	4.87	7523	5.46	13274	8.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-22	42644	5.87	20062	6.46	35955	9.69
FA18988-23	42716	5.86	20137	6.46	36519	9.69
SQ251-ECC234	37522	5.86	18374	6.44	33513	9.66

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ252-CC234	**Injection Date:**	10/14/14
Lab File ID:	Q7474.D	**Injection Time:**	22:43
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	28210	5.86	13858	6.43	24676	9.61
Upper Limit [c]	57426	6.86	22568	7.43	39822	10.61
Lower Limit [d]	19142	4.86	7523	5.43	13274	8.61

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53472-MB	32389	5.86	15019	6.44	25812	9.61
OP53472-BS	30395	5.86	14450	6.44	26229	9.62
FA18988-24	29447	5.86	9813	6.43	25160	9.62

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ252-CC234	**Injection Date:**	10/15/14
Lab File ID:	Q7481.D	**Injection Time:**	00:58
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	28408	5.86	13946	6.44	24907	9.61
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.61
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.61

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-25	29364	5.86	9615	6.43	25099	9.62
FA18988-26	31330	5.86	14126	6.44	25923	9.63
FA18988-27	33286	5.86	14603	6.44	27870	9.63
FA18988-28	30441	5.87	13377	6.44	26193	9.62
FA18988-29	35571	5.87	16745	6.44	29711	9.62
FA18988-31	30851	5.86	14870	6.44	28060	9.61
FA18988-32	31631	5.86	14822	6.44	27607	9.61
FA18988-33	30337	5.86	14618	6.44	25980	9.62
SQ252-ECC234	30509	5.86	14935	6.44	26953	9.62

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ253-CC234	**Injection Date:**	10/15/14
Lab File ID:	Q7500.D	**Injection Time:**	10:57
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	27588	5.88	13953	6.47	23429	9.69
Upper Limit [c]	57426	6.88	22568	7.47	39822	10.69
Lower Limit [d]	19142	4.88	7523	5.47	13274	8.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53472-BS	29532	5.88	14135	6.47	23613	9.67
OP53472-MB	31239	5.88	14609	6.47	24747	9.67
FA18988-38	31354	5.87	9697	6.44	24808	9.66
FA18988-39	31167	5.87	9243	6.44	25446	9.66
FA18988-40	30378	5.87	8569	6.43	24078	9.65
FA18988-41	33763	5.87	9146	6.43	28093	9.65
FA18988-42	34271	5.87	12859	6.44	27309	9.66
FA18988-43	31851	5.87	14870	6.46	25522	9.65
FA18988-44	35270	5.87	16623	6.44	28139	9.65

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ253-CC234	**Injection Date:**	10/15/14
Lab File ID:	Q7510.D	**Injection Time:**	14:38
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	28797	5.86	14272	6.44	24777	9.65
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.65
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-24	30572	5.87	14087	6.44	24526	9.65
OP53472-MS	30595	5.87	14328	6.44	24477	9.65
OP53472-MSD	30524	5.87	14066	6.44	24874	9.65
FA18988-25	29885	5.87	13808	6.44	24525	9.65
FA18988-27	29353	5.87	14047	6.44	23696	9.65
FA18988-28	30448	5.87	14410	6.44	25529	9.65
FA18988-34	31018	5.86	14288	6.44	26562	9.62
FA18988-35	32132	5.86	14898	6.44	26673	9.62
FA18988-37	30547	5.86	14061	6.44	24778	9.62
SQ253-ECC234	30782	5.86	14824	6.44	24952	9.63

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ254-CC234	**Injection Date:**	10/16/14
Lab File ID:	Q7527.D	**Injection Time:**	10:14
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	25942	5.90	13660	6.48	19772	9.66
Upper Limit [c]	57426	6.90	22568	7.48	39822	10.66
Lower Limit [d]	19142	4.90	7523	5.48	13274	8.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-14	37798	5.90	19620	6.48	29555	9.67
FA18988-15	31302	5.90	15965	6.48	24316	9.67
FA18988-16	31795	5.88	15874	6.48	23675	9.67
FA18988-17	33671	5.88	16854	6.47	24929	9.66
FA18988-18	32282	5.88	16782	6.47	24732	9.66
FA18988-19	33864	5.88	17836	6.47	26362	9.65
OP53471-MS	36767	5.88	19198	6.47	28520	9.65
OP53471-MSD	32154	5.88	16644	6.47	24695	9.65
FA18988-34	33977	5.86	12870	6.43	27020	9.60
FA18988-35	32943	5.86	13428	6.43	25660	9.58

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ254-CC234	**Injection Date:**	10/16/14
Lab File ID:	Q7538.D	**Injection Time:**	13:46
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	26873	5.86	14036	6.43	22018	9.60
Upper Limit [c]	57426	6.86	22568	7.43	39822	10.60
Lower Limit [d]	19142	4.86	7523	5.43	13274	8.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-37	33924	5.86	11006	6.42	26501	9.58
ZZZZZZ	30720	5.86	14961	6.43	23283	9.35
ZZZZZZ	24066	5.85	14450	6.43	22826	9.60
ZZZZZZ	25254	5.86	13448	6.43	20826	9.58

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ256-CC234	**Injection Date:**	10/18/14
Lab File ID:	Q7602.D	**Injection Time:**	11:33
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	25250	5.86	13954	6.44	14939	9.63
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.63
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53564-BS	23934	5.86	12998	6.44	14574	9.63
OP53564-MB	26307	5.86	14003	6.44	15108	9.63
ZZZZZZ	24672	5.86	13080	6.42	0*	0.00*
FA18988-55	27039	5.86	14479	6.44	16967	9.62
FA19153-1	19230	5.87	19751	6.44	24588	9.62
OP53564-MS	22602	5.88	15611	6.44	19952	9.65
OP53564-MSD	22974	5.88	15764	6.44	21656	9.65

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ257-CC234	**Injection Date:**	10/20/14
Lab File ID:	Q7636.D	**Injection Time:**	11:01
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	25261	5.87	13811	6.46	19632	9.66
Upper Limit [c]	57426	6.87	22568	7.46	39822	10.66
Lower Limit [d]	19142	4.87	7523	5.46	13274	8.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53492-BS	32604	5.87	16863	6.46	24131	9.66
OP53492-MB	25610	5.87	13274	6.46	18454	9.65
ZZZZZZ	30230	5.87	15341	6.46	21966	9.65
FA18988-1	27567	5.87	14122	6.46	19672	9.60
FA18988-2	29213	5.87	14965	6.46	21317	9.65
FA18988-13	31987	5.86	15457	6.46	22192	9.62
FA18988-36	29368	5.87	14323	6.46	21058	9.61
FA18923-3	37399	5.87	15086	6.46	22360	9.66
OP53492-MS	36421	5.87	15111	6.46	22800	9.65
OP53492-MSD	36079	5.87	14913	6.46	22774	9.65

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ257-CC234	**Injection Date:**	10/20/14
Lab File ID:	Q7647.D	**Injection Time:**	14:45
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	36202	5.86	15461	6.44	23377	9.65
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.65
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	26870	5.85	12600	6.43	22318	9.53
ZZZZZZ	37116	5.86	15489	6.44	25134	9.53
ZZZZZZ	34364	5.86	13911	6.43	23461	9.52
ZZZZZZ	39025	5.86	15524	6.43	25751	9.53
OP53512-BS	37966	5.86	15345	6.44	25471	9.53
OP53512-MB	38449	5.86	14973	6.44	24813	9.55
FA18988-45	39198	5.87	15805	6.44	25429	9.55
OP53512-MS	37068	5.87	14998	6.44	25074	9.56
OP53512-MSD	37448	5.87	15153	6.44	25227	9.56

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ257-CC234	**Injection Date:**	10/20/14
Lab File ID:	Q7658.D	**Injection Time:**	18:23
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	36177	5.87	15270	6.46	25171	9.56
Upper Limit [c]	57426	6.87	22568	7.46	39822	10.56
Lower Limit [d]	19142	4.87	7523	5.46	13274	8.56

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-46	39403	5.87	13698	6.46	26169	9.57
FA18988-47	40169	5.87	12852	6.46	27326	9.58
FA18988-49	40516	5.87	12843	6.44	27225	9.57
FA18988-50	39511	5.87	9842	6.44	26782	9.57
FA18988-51	40653	5.88	12175	6.46	26744	9.57
FA18988-52	40456	5.88	10997	6.46	27178	9.58
FA18988-53	41059	5.88	15555	6.47	26866	9.60
FA18988-54	40794	5.88	13039	6.47	29848	9.60
SQ257-ECC234	39784	5.88	16624	6.47	28113	9.60

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ258-CC234	**Injection Date:**	10/21/14
Lab File ID:	Q7675.D	**Injection Time:**	10:27
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	34542	5.98	16462	6.59	25658	9.79
Upper Limit [c]	57426	6.98	22568	7.59	39822	10.79
Lower Limit [d]	19142	4.98	7523	5.59	13274	8.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53512-BS	43932	6.00	21161	6.59	28071	9.79
OP53512-MB	44187	6.00	19629	6.59	26569	9.80
ZZZZZZ	37191	5.98	15776	6.59	23686	9.79
ZZZZZZ	37823	5.98	15127	6.58	24301	9.80
ZZZZZZ	37797	5.98	15800	6.58	24505	9.79

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ258-CC234	**Injection Date:**	10/22/14
Lab File ID:	Q7725.D	**Injection Time:**	03:55
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	44292	5.88	18252	6.47	27164	9.52
Upper Limit [c]	57426	6.88	22568	7.47	39822	10.52
Lower Limit [d]	19142	4.88	7523	5.47	13274	8.52

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53585-BS	41557	5.88	16722	6.47	26521	9.52
OP53585-MB	42876	5.88	16821	6.47	25658	9.52
FA18988-30	44562	5.88	17127	6.46	25895	9.52
OP53585-MS	43124	5.87	17247	6.46	24584	9.52
OP53585-MSD	42107	5.87	16794	6.46	23484	9.52
SQ258-ECC234	47531	5.87	19049	6.46	29589	9.51

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ259-CC234	**Injection Date:**	10/22/14
Lab File ID:	Q7738.D	**Injection Time:**	10:43
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	39264	5.86	15689	6.44	23783	9.46
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.46
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.46

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	47223	5.86	16266	6.43	28051	9.45
ZZZZZZ	44481	5.86	17378	6.43	30690	9.46
ZZZZZZ	41008	5.86	15756	6.43	26648	9.46
FA18988-48	40526	5.86	15686	6.43	25934	9.45
FA18988-46	41306	5.86	15225	6.43	24945	9.46
FA18988-47	41921	5.86	15273	6.43	25725	9.45
FA18988-49	42615	5.85	15117	6.42	24801	9.45
FA18988-50	42069	5.85	15135	6.42	24716	9.45

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ259-CC234	**Injection Date:**	10/22/14
Lab File ID:	Q7749.D	**Injection Time:**	14:20
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	40783	5.85	15876	6.42	29792	9.43
Upper Limit [c]	57426	6.85	22568	7.42	39822	10.43
Lower Limit [d]	19142	4.85	7523	5.42	13274	8.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18988-51	41105	5.85	14645	6.42	24680	9.43
FA18988-52	42843	5.85	15641	6.42	25581	9.43
FA18988-53	40838	5.85	14871	6.42	24195	9.45
FA18988-54	41766	5.85	15175	6.43	24620	9.46
FA19153-1	32985	5.85	15584	6.43	23922	9.46
SQ259-ECC234	43600	5.86	16694	6.43	26015	9.47

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Surrogate Recovery Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18988-1	Q7640.D	101	105
FA18988-2	Q7641.D	98	84
FA18988-13	Q7642.D	102	97
FA18988-36	Q7643.D	98	101
FA18988-55	Q7606.D	101	106
OP53492-BS	Q7637.D	111	103
OP53492-MB	Q7638.D	109	102
OP53492-MS	Q7645.D	102	91
OP53492-MSD	Q7646.D	98	93
OP53564-BS	Q7603.D	112	110
OP53564-MB	Q7604.D	109	92
OP53564-MS	Q7608.D	0* [a]	0* [a]
OP53564-MSD	Q7609.D	0* [a]	0* [a]

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

(a) Outside control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18988-3	Q7422.D	102	89
FA18988-4	Q7423.D	86	76
FA18988-5	Q7424.D	97	86
FA18988-6	Q7425.D	100	88
FA18988-7	Q7426.D	100	90
FA18988-8	Q7427.D	99	90
FA18988-9	Q7428.D	104	94
FA18988-10	Q7429.D	99	88
FA18988-11	Q7432.D	97	91
FA18988-12	Q7433.D	97	90
FA18988-14	Q7528.D	105	89
FA18988-15	Q7529.D	102	92
FA18988-15	Q7437.D	95	96
FA18988-16	Q7530.D	97	88
FA18988-16	Q7438.D	91	93
FA18988-17	Q7531.D	102	91
FA18988-17	Q7439.D	101	102
FA18988-18	Q7532.D	106	93
FA18988-18	Q7440.D	108	97
FA18988-19	Q7533.D	104	88
FA18988-19	Q7441.D	105	96
FA18988-20	Q7442.D	101	91
FA18988-21	Q7443.D	100	91
FA18988-22	Q7446.D	96	84
FA18988-23	Q7447.D	93	84
FA18988-24	Q7512.D	0* [a]	0* [a]
FA18988-24	Q7478.D	88	80
FA18988-25	Q7515.D	0* [a]	0* [a]
FA18988-25	Q7483.D	85	79
FA18988-26	Q7484.D	91	84
FA18988-27	Q7516.D	94	90
FA18988-27	Q7485.D	90	83
FA18988-28	Q7517.D	86	81
FA18988-28	Q7486.D	87	80
FA18988-29	Q7487.D	89	85
FA18988-30	Q7729.D	77	87
FA18988-31	Q7489.D	88	83
FA18988-32	Q7490.D	84	79
FA18988-33	Q7491.D	86	82
FA18988-34	Q7536.D	92	81

Semivolatile Surrogate Recovery Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18988-34	Q7519.D	110	112
FA18988-35	Q7537.D	86	74
FA18988-35	Q7520.D	90	90
FA18988-37	Q7542.D	92	84
FA18988-37	Q7521.D	0* [a]	0* [a]
FA18988-38	Q7628.D	0* [a]	0* [a]
FA18988-38	Q7503.D	86	90
FA18988-39	Q7629.D	0* [a]	0* [a]
FA18988-39	Q7504.D	87	88
FA18988-40	Q7630.D	0* [a]	0* [a]
FA18988-40	Q7505.D	87	90
FA18988-41	Q7631.D	0* [a]	97
FA18988-41	Q7506.D	84	88
FA18988-42	Q7632.D	93	101
FA18988-42	Q7507.D	88	90
FA18988-43	Q7508.D	83	85
FA18988-44	Q7509.D	84	88
FA18988-45	Q7655.D	83	88
FA18988-46	Q7744.D	81	85
FA18988-46	Q7660.D	84	88
FA18988-47	Q7745.D	83	88
FA18988-47	Q7661.D	80	84
FA18988-48	Q7743.D	80	79
FA18988-49	Q7746.D	79	86
FA18988-49	Q7663.D	85	86
FA18988-50	Q7747.D	0* [a]	0* [a]
FA18988-50	Q7664.D	83	85
FA18988-51	Q7753.D	87	91
FA18988-51	Q7665.D	84	89
FA18988-52	Q7754.D	0* [a]	0* [a]
FA18988-52	Q7666.D	83	87
FA18988-53	Q7755.D	81	86
FA18988-53	Q7667.D	82	87
FA18988-54	Q7756.D	84	93
FA18988-54	Q7668.D	87	83
OP53471-BS	Q7420.D	106	93
OP53471-MB	Q7421.D	94	84
OP53471-MS	Q7534.D	96	80
OP53471-MSD	Q7535.D	97	87
OP53472-BS	Q7477.D	89	80

Semivolatile Surrogate Recovery Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
OP53472-BS	Q7501.D	94	93
OP53472-MB	Q7476.D	91	87
OP53472-MB	Q7502.D	89	90
OP53472-MS	Q7513.D	0* [a]	0* [a]
OP53472-MSD	Q7514.D	0* [a]	0* [a]
OP53512-BS	Q7653.D	79	79
OP53512-BS	Q7676.D	84	105
OP53512-MB	Q7654.D	88	90
OP53512-MB	Q7677.D	90	113
OP53512-MS	Q7656.D	84	83
OP53512-MSD	Q7657.D	83	82
OP53585-BS	Q7727.D	80	86
OP53585-MB	Q7728.D	70	80
OP53585-MS	Q7730.D	78	87
OP53585-MSD	Q7731.D	79	88

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

(a) Outside control limits due to dilution.

Initial Calibration Summary

Job Number: FA18988 **Sample:** SQ234-ICC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6939.D
Project: Plattsburgh AFB; Plattsburgh, NY

Initial Calibration ReSponse Factors - D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID : Calibration File
1 : D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2 : D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3 : D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4 : D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5 : D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6 : D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7 : D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Compound	1	2	3	4	5	6	7	AvgRF	%RSD	r^2
2) 13C2-PFDoDA	----------ISTD----------									
1) 13C2-PFDA	1.4694	1.2705	1.3641	1.3573	1.2782	1.1995	1.1677	1.3010	8.002	0.9925
8) PFDA	1.3529	1.1705	1.2774	1.2682	1.2016	1.1239	1.0824	1.2110	7.811	0.9913
9) PFDoDA	0.9528	0.9350	0.8811	0.8914	0.8903	0.8623	0.8657	0.8969	3.827	0.9994
10) PFDS	0.2240	0.2180	0.2018	0.2025	0.1985	0.1920	0.1929	0.2043	5.996	0.9989
19) PFTeDA	0.7532	0.6581	0.5739	0.5913	0.5950	0.5845	0.5932	0.6213	10.333	0.9994
20) PFTrDA	0.8594	0.8431	0.7924	0.7963	0.7967	0.7777	0.7789	0.8063	3.964	0.9999
21) PFUnDA	1.4969	1.2243	1.1198	1.0728	1.0513	1.0110	1.0658	1.1489	14.603	0.9948
4) 13C2-PFOA	----------ISTD----------									
3) 13C2-PFHxA	0.3285	0.3294	0.3113	0.3056	0.3013	0.2929	0.2943	0.3090	4.856	0.9992
6) PFBA	0.2472	0.2443	0.2374	0.2319	0.2354	0.2301	0.2321	0.2369	2.771	0.9998
11) PFHpA	0.4292	0.3812	0.3486	0.3311	0.3247	0.3126	0.3091	0.3481	12.464	0.9994
13) PFHxA	0.3782	0.3737	0.3488	0.3465	0.3428	0.3331	0.3339	0.3510	5.150	0.9992
15) PFNA	0.5906	0.5169	0.4639	0.4647	0.4599	0.4509	0.4500	0.4853	10.660	0.9996
16) PFOA	1.3992	1.1606	1.0285	1.0005	0.9828	0.9625	0.9647	1.0713	14.922	0.9959
18) PFPeA	0.1233	0.1212	0.1155	0.1139	0.1149	0.1115	0.1146	0.1164	3.645	0.9995
5) 13C4-PFOS	----------ISTD----------									
7) PFBS	0.4070	0.3735	0.3399	0.3254	0.3260	0.3064	0.3165	0.3421	10.450	0.9975
12) PFHpS	0.6380	0.6341	0.6144	0.5989	0.6054	0.5816	0.5927	0.6093	3.437	0.9993
14) PFHxS	0.6360	0.5636	0.5422	0.5072	0.5081	0.4775	0.4990	0.5334	10.027	0.9974
17) PFOS	1.3645	1.1081	1.0077	0.9890	0.9834	0.9433	0.9543	1.0500	14.167	0.9965

*(value) - Average RF below (value)

Initial Calibration Verification

Job Number: FA18988 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6944.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6944
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	# -100.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	# -100.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.367	1.8	101.8
PFBS	20.000	21.501	7.5	107.5
PFDA	20.000	21.272	6.4	106.4
PFDoDA	20.000	21.331	6.7	106.7
PFDS	20.000	21.521	7.6	107.6
PFHpA	20.000	20.021	0.1	100.1
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	20.765	3.8	103.8
PFHxS	20.000	21.704	8.5	108.5
PFNA	20.000	20.123	0.6	100.6
PFOA	20.000	20.065	0.3	100.3
PFOS	20.000	20.717	3.6	103.6
PFPeA	20.000	20.410	2.1	102.1
PFTeDA	20.000	22.398	12.0	112.0
PFTrDA	20.000	20.605	3.0	103.0
PFUnDA	20.000	20.271	1.4	101.4

CC Criteria: +/- 25%

Initial Calibration Verification

Job Number: FA18988 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6945.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6945
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	0.000	0.0	0.0
PFBS	20.000	24.861	24.3	124.3
PFDA	20.000	0.000	0.0	0.0
PFDoDA	20.000	0.000	0.0	0.0
PFDS	20.000	0.000	0.0	0.0
PFHpA	20.000	18.993	-5.0	95.0
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	0.000	0.0	0.0
PFHxS	20.000	23.899	19.5	119.5
PFNA	20.000	21.584	7.9	107.9
PFOA	20.000	19.090	-4.5	95.5
PFOS	20.000	20.549	2.7	102.7
PFPeA	20.000	0.000	0.0	0.0
PFTeDA	20.000	0.000	0.0	0.0
PFTrDA	20.000	0.000	0.0	0.0
PFUnDA	20.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7418.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7418
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.914	-5.4	94.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.652	-1.7	98.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.953	14.8	114.8
PFBS	20.000	20.172	0.9	100.9
PFDA	20.000	20.566	2.8	102.8
PFDoDA	20.000	22.121	10.6	110.6
PFDS	20.000	25.348	# 26.7	126.7
PFHpA	20.000	19.164	-4.2	95.8
PFHpS	20.000	19.934	-0.3	99.7
PFHxA	20.000	19.669	-1.7	98.3
PFHxS	20.000	20.446	2.2	102.2
PFNA	20.000	23.834	19.2	119.2
PFOA	20.000	20.877	4.4	104.4
PFOS	20.000	20.463	2.3	102.3
PFPeA	20.000	21.579	7.9	107.9
PFTeDA	20.000	19.205	-4.0	96.0
PFTrDA	20.000	23.709	18.5	118.5
PFUnDA	20.000	17.516	-12.4	87.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7430.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7430
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.440	-7.8	92.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.453	-2.7	97.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.979	9.9	109.9
PFBS	20.000	19.646	-1.8	98.2
PFDA	20.000	20.119	0.6	100.6
PFDoDA	20.000	21.739	8.7	108.7
PFDS	20.000	25.250	# 26.3	126.3
PFHpA	20.000	19.153	-4.2	95.8
PFHpS	20.000	19.893	-0.5	99.5
PFHxA	20.000	19.235	-3.8	96.2
PFHxS	20.000	20.141	0.7	100.7
PFNA	20.000	23.273	16.4	116.4
PFOA	20.000	20.468	2.3	102.3
PFOS	20.000	19.907	-0.5	99.5
PFPeA	20.000	21.108	5.5	105.5
PFTeDA	20.000	18.425	-7.9	92.1
PFTrDA	20.000	22.447	12.2	112.2
PFUnDA	20.000	17.491	-12.5	87.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7434.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7434
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	21.184	5.9	105.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.622	-6.9	93.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.125	5.6	105.6
PFBS	20.000	18.539	-7.3	92.7
PFDA	20.000	20.463	2.3	102.3
PFDoDA	20.000	22.857	14.3	114.3
PFDS	20.000	25.455	# 27.3	127.3
PFHpA	20.000	17.394	-13.0	87.0
PFHpS	20.000	19.398	-3.0	97.0
PFHxA	20.000	18.109	-9.5	90.5
PFHxS	20.000	19.322	-3.4	96.6
PFNA	20.000	23.245	16.2	116.2
PFOA	20.000	19.695	-1.5	98.5
PFOS	20.000	19.758	-1.2	98.8
PFPeA	20.000	20.479	2.4	102.4
PFTeDA	20.000	18.795	-6.0	94.0
PFTrDA	20.000	22.505	12.5	112.5
PFUnDA	20.000	22.390	12.0	112.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7444.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7444
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.527	-7.4	92.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.371	-3.1	96.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.229	11.1	111.1
PFBS	20.000	20.800	4.0	104.0
PFDA	20.000	20.381	1.9	101.9
PFDoDA	20.000	21.444	7.2	107.2
PFDS	20.000	24.377	21.9	121.9
PFHpA	20.000	19.227	-3.9	96.1
PFHpS	20.000	19.733	-1.3	98.7
PFHxA	20.000	19.151	-4.2	95.8
PFHxS	20.000	20.181	0.9	100.9
PFNA	20.000	23.323	16.6	116.6
PFOA	20.000	20.422	2.1	102.1
PFOS	20.000	20.145	0.7	100.7
PFPeA	20.000	21.083	5.4	105.4
PFTeDA	20.000	17.839	-10.8	89.2
PFTrDA	20.000	21.090	5.4	105.4
PFUnDA	20.000	16.851	-15.7	84.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ251-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7450.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7450
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.335	-13.3	86.7
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.399	-3.0	97.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.315	11.6	111.6
PFBS	20.000	20.894	4.5	104.5
PFDA	20.000	19.075	-4.6	95.4
PFDoDA	20.000	21.652	8.3	108.3
PFDS	20.000	24.046	20.2	120.2
PFHpA	20.000	19.260	-3.7	96.3
PFHpS	20.000	20.179	0.9	100.9
PFHxA	20.000	19.252	-3.7	96.3
PFHxS	20.000	20.137	0.7	100.7
PFNA	20.000	24.442	22.2	122.2
PFOA	20.000	21.056	5.3	105.3
PFOS	20.000	20.217	1.1	101.1
PFPeA	20.000	20.803	4.0	104.0
PFTeDA	20.000	16.973	-15.1	84.9
PFTrDA	20.000	16.487	-17.6	82.4
PFUnDA	20.000	17.026	-14.9	85.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ252-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7474.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1014_PFC_SQ252\SQ252.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7474
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.641	-11.8	88.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.554	-12.2	87.8
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.944	-10.3	89.7
PFBS	20.000	17.075	-14.6	85.4
PFDA	20.000	16.993	-15.0	85.0
PFDoDA	20.000	21.685	8.4	108.4
PFDS	20.000	24.251	21.3	121.3
PFHpA	20.000	18.563	-7.2	92.8
PFHpS	20.000	19.035	-4.8	95.2
PFHxA	20.000	17.222	-13.9	86.1
PFHxS	20.000	18.539	-7.3	92.7
PFNA	20.000	24.956	24.8	124.8
PFOA	20.000	20.141	0.7	100.7
PFOS	20.000	19.270	-3.7	96.3
PFPeA	20.000	18.099	-9.5	90.5
PFTeDA	20.000	19.250	-3.7	96.3
PFTrDA	20.000	22.655	13.3	113.3
PFUnDA	20.000	17.236	-13.8	86.2

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ252-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7481.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1014_PFC_SQ252\SQ252.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7481
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.153	-14.2	85.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.508	-12.5	87.5
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.596	-17.0	83.0
PFBS	20.000	17.231	-13.8	86.2
PFDA	20.000	16.703	-16.5	83.5
PFDoDA	20.000	21.688	8.4	108.4
PFDS	20.000	24.246	21.2	121.2
PFHpA	20.000	18.205	-9.0	91.0
PFHpS	20.000	18.747	-6.3	93.7
PFHxA	20.000	17.399	-13.0	87.0
PFHxS	20.000	18.373	-8.1	91.9
PFNA	20.000	25.570	# 27.9	127.9
PFOA	20.000	20.205	1.0	101.0
PFOS	20.000	20.392	2.0	102.0
PFPeA	20.000	17.500	-12.5	87.5
PFTeDA	20.000	19.505	-2.5	97.5
PFTrDA	20.000	22.874	14.4	114.4
PFUnDA	20.000	16.996	-15.0	85.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ252-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7492.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1014_PFC_SQ252\SQ252.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7492
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.814	-15.9	84.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.145	-14.3	85.7
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.949	-15.3	84.7
PFBS	20.000	17.299	-13.5	86.5
PFDA	20.000	16.266	-18.7	81.3
PFDoDA	20.000	21.713	8.6	108.6
PFDS	20.000	24.137	20.7	120.7
PFHpA	20.000	17.996	-10.0	90.0
PFHpS	20.000	18.768	-6.2	93.8
PFHxA	20.000	17.410	-13.0	87.0
PFHxS	20.000	18.541	-7.3	92.7
PFNA	20.000	24.992	25.0	125.0
PFOA	20.000	19.972	-0.1	99.9
PFOS	20.000	19.673	-1.6	98.4
PFPeA	20.000	17.723	-11.4	88.6
PFTeDA	20.000	19.284	-3.6	96.4
PFTrDA	20.000	22.729	13.6	113.6
PFUnDA	20.000	16.995	-15.0	85.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ253-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7500.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1015_PFC_SQ253\SQ253.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7500
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.777	-6.1	93.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.106	-9.5	90.5
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	18.409	-8.0	92.0
PFBS	20.000	18.243	-8.8	91.2
PFDA	20.000	16.466	-17.7	82.3
PFDoDA	20.000	22.093	10.5	110.5
PFDS	20.000	25.519	# 27.6	127.6
PFHpA	20.000	19.043	-4.8	95.2
PFHpS	20.000	19.501	-2.5	97.5
PFHxA	20.000	18.203	-9.0	91.0
PFHxS	20.000	18.675	-6.6	93.4
PFNA	20.000	24.936	24.7	124.7
PFOA	20.000	20.945	4.7	104.7
PFOS	20.000	20.517	2.6	102.6
PFPeA	20.000	18.037	-9.8	90.2
PFTeDA	20.000	19.867	-0.7	99.3
PFTrDA	20.000	23.199	16.0	116.0
PFUnDA	20.000	16.963	-15.2	84.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ253-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7510.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1015_PFC_SQ253\SQ253.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7510
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.843	-10.8	89.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.962	-10.2	89.8
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	18.349	-8.3	91.7
PFBS	20.000	18.252	-8.7	91.3
PFDA	20.000	16.704	-16.5	83.5
PFDoDA	20.000	21.964	9.8	109.8
PFDS	20.000	24.986	24.9	124.9
PFHpA	20.000	18.921	-5.4	94.6
PFHpS	20.000	19.426	-2.9	97.1
PFHxA	20.000	18.037	-9.8	90.2
PFHxS	20.000	18.826	-5.9	94.1
PFNA	20.000	24.731	23.7	123.7
PFOA	20.000	20.986	4.9	104.9
PFOS	20.000	19.962	-0.2	99.8
PFPeA	20.000	18.649	-6.8	93.2
PFTeDA	20.000	19.305	-3.5	96.5
PFTrDA	20.000	22.525	12.6	112.6
PFUnDA	20.000	17.008	-15.0	85.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ253-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7522.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1015_PFC_SQ253\SQ253.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7522
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.386	-8.1	91.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.782	-11.1	88.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	18.214	-8.9	91.1
PFBS	20.000	18.821	-5.9	94.1
PFDA	20.000	17.515	-12.4	87.6
PFDoDA	20.000	21.977	9.9	109.9
PFDS	20.000	25.641	# 28.2	128.2
PFHpA	20.000	18.696	-6.5	93.5
PFHpS	20.000	19.757	-1.2	98.8
PFHxA	20.000	17.961	-10.2	89.8
PFHxS	20.000	19.742	-1.3	98.7
PFNA	20.000	24.345	21.7	121.7
PFOA	20.000	20.459	2.3	102.3
PFOS	20.000	20.069	0.3	100.3
PFPeA	20.000	18.104	-9.5	90.5
PFTeDA	20.000	20.019	0.1	100.1
PFTrDA	20.000	23.335	16.7	116.7
PFUnDA	20.000	17.474	-12.6	87.4

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ254-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7527.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1016_PFC_SQ254\sq254.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7527
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.394	-3.0	97.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.848	9.2	109.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.370	16.8	116.8
PFBS	20.000	20.773	3.9	103.9
PFDA	20.000	18.375	-8.1	91.9
PFDoDA	20.000	23.410	17.0	117.0
PFDS	20.000	30.449	# 52.2	152.2
PFHpA	20.000	21.381	6.9	106.9
PFHpS	20.000	21.987	9.9	109.9
PFHxA	20.000	21.715	8.6	108.6
PFHxS	20.000	21.570	7.8	107.8
PFNA	20.000	22.308	11.5	111.5
PFOA	20.000	22.580	12.9	112.9
PFOS	20.000	22.497	12.5	112.5
PFPeA	20.000	22.964	14.8	114.8
PFTeDA	20.000	23.091	15.5	115.5
PFTrDA	20.000	26.979	# 34.9	134.9
PFUnDA	20.000	18.064	-9.7	90.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ254-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7538.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1016_PFC_SQ254\sq254.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7538
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.752	-11.2	88.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.717	3.6	103.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.255	6.3	106.3
PFBS	20.000	19.648	-1.8	98.2
PFDA	20.000	19.018	-4.9	95.1
PFDoDA	20.000	23.628	18.1	118.1
PFDS	20.000	29.191	# 46.0	146.0
PFHpA	20.000	21.258	6.3	106.3
PFHpS	20.000	21.327	6.6	106.6
PFHxA	20.000	20.180	0.9	100.9
PFHxS	20.000	20.648	3.2	103.2
PFNA	20.000	24.716	23.6	123.6
PFOA	20.000	22.602	13.0	113.0
PFOS	20.000	22.394	12.0	112.0
PFPeA	20.000	21.194	6.0	106.0
PFTeDA	20.000	23.169	15.8	115.8
PFTrDA	20.000	26.321	# 31.6	131.6
PFUnDA	20.000	18.217	-8.9	91.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ254-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7546.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1016_PFC_SQ254\sq254.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7546
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.578	-2.1	97.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.643	3.2	103.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.125	10.6	110.6
PFBS	20.000	20.698	3.5	103.5
PFDA	20.000	20.132	0.7	100.7
PFDoDA	20.000	23.646	18.2	118.2
PFDS	20.000	28.967	# 44.8	144.8
PFHpA	20.000	21.124	5.6	105.6
PFHpS	20.000	21.646	8.2	108.2
PFHxA	20.000	20.415	2.1	102.1
PFHxS	20.000	21.101	5.5	105.5
PFNA	20.000	25.386	# 26.9	126.9
PFOA	20.000	23.500	17.5	117.5
PFOS	20.000	22.398	12.0	112.0
PFPeA	20.000	21.521	7.6	107.6
PFTeDA	20.000	23.089	15.4	115.4
PFTrDA	20.000	26.519	# 32.6	132.6
PFUnDA	20.000	18.552	-7.2	92.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ256-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7602.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1018_PFC_SQ256\SQ256.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7602
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.622	-6.9	93.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.474	-12.6	87.4
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.057	-14.7	85.3
PFBS	20.000	15.591	-22.0	78.0
PFDA	20.000	19.451	-2.7	97.3
PFDoDA	20.000	23.045	15.2	115.2
PFDS	20.000	27.953	# 39.8	139.8
PFHpA	20.000	19.736	-1.3	98.7
PFHpS	20.000	19.281	-3.6	96.4
PFHxA	20.000	17.478	-12.6	87.4
PFHxS	20.000	18.257	-8.7	91.3
PFNA	20.000	19.890	-0.6	99.4
PFOA	20.000	20.663	3.3	103.3
PFOS	20.000	19.539	-2.3	97.7
PFPeA	20.000	18.100	-9.5	90.5
PFTeDA	20.000	21.536	7.7	107.7
PFTrDA	20.000	28.723	# 43.6	143.6
PFUnDA	20.000	16.246	-18.8	81.2

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ256-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7610.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1018_PFC_SQ256\SQ256.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7610
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.669	-11.7	88.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.282	-18.6	81.4
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.013	-19.9	80.1
PFBS	20.000	16.009	-20.0	80.0
PFDA	20.000	15.754	-21.2	78.8
PFDoDA	20.000	21.036	5.2	105.2
PFDS	20.000	28.303	# 41.5	141.5
PFHpA	20.000	18.508	-7.5	92.5
PFHpS	20.000	19.269	-3.7	96.3
PFHxA	20.000	16.414	-17.9	82.1
PFHxS	20.000	17.960	-10.2	89.8
PFNA	20.000	23.428	17.1	117.1
PFOA	20.000	20.307	1.5	101.5
PFOS	20.000	19.948	-0.3	99.7
PFPeA	20.000	17.005	-15.0	85.0
PFTeDA	20.000	20.489	2.4	102.4
PFTrDA	20.000	23.959	19.8	119.8
PFUnDA	20.000	16.742	-16.3	83.7

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ256-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7622.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1018_PFC_SQ256\SQ256.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7622
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.250	-8.7	91.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.255	-18.7	81.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.198	-24.0	76.0
PFBS	20.000	15.967	-20.2	79.8
PFDA	20.000	18.971	-5.1	94.9
PFDoDA	20.000	21.073	5.4	105.4
PFDS	20.000	27.898	# 39.5	139.5
PFHpA	20.000	18.768	-6.2	93.8
PFHpS	20.000	18.934	-5.3	94.7
PFHxA	20.000	16.375	-18.1	81.9
PFHxS	20.000	18.215	-8.9	91.1
PFNA	20.000	24.222	21.1	121.1
PFOA	20.000	20.626	3.1	103.1
PFOS	20.000	19.671	-1.6	98.4
PFPeA	20.000	16.657	-16.7	83.3
PFTeDA	20.000	20.391	2.0	102.0
PFTrDA	20.000	23.734	18.7	118.7
PFUnDA	20.000	17.270	-13.6	86.4

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ256-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7633.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1018_PFC_SQ256\SQ256.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7633
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.337	-8.3	91.7
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.643	-16.8	83.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.890	-20.5	79.5
PFBS	20.000	15.907	-20.5	79.5
PFDA	20.000	19.591	-2.0	98.0
PFDoDA	20.000	21.090	5.5	105.5
PFDS	20.000	28.251	# 41.3	141.3
PFHpA	20.000	18.510	-7.4	92.6
PFHpS	20.000	19.003	-5.0	95.0
PFHxA	20.000	16.849	-15.8	84.2
PFHxS	20.000	18.312	-8.4	91.6
PFNA	20.000	23.852	19.3	119.3
PFOA	20.000	20.125	0.6	100.6
PFOS	20.000	19.553	-2.2	97.8
PFPeA	20.000	16.729	-16.4	83.6
PFTeDA	20.000	20.448	2.2	102.2
PFTrDA	20.000	21.515	7.6	107.6
PFUnDA	20.000	17.412	-12.9	87.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ257-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7636.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1020_PFC_SQ257\SQ257.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7636
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.237	-8.8	91.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.715	-6.4	93.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.220	-13.9	86.1
PFBS	20.000	16.509	-17.5	82.5
PFDA	20.000	18.107	-9.5	90.5
PFDoDA	20.000	22.574	12.9	112.9
PFDS	20.000	27.944	# 39.7	139.7
PFHpA	20.000	19.374	-3.1	96.9
PFHpS	20.000	19.426	-2.9	97.1
PFHxA	20.000	18.686	-6.6	93.4
PFHxS	20.000	18.624	-6.9	93.1
PFNA	20.000	22.602	13.0	113.0
PFOA	20.000	20.998	5.0	105.0
PFOS	20.000	20.313	1.6	101.6
PFPeA	20.000	18.324	-8.4	91.6
PFTeDA	20.000	20.236	1.2	101.2
PFTrDA	20.000	23.364	16.8	116.8
PFUnDA	20.000	16.346	-18.3	81.7

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ257-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7647.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1020_PFC_SQ257\SQ257.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7647
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.643	-6.8	93.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.924	-10.4	89.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.066	-19.7	80.3
PFBS	20.000	16.560	-17.2	82.8
PFDA	20.000	17.573	-12.1	87.9
PFDoDA	20.000	21.164	5.8	105.8
PFDS	20.000	25.121	# 25.6	125.6
PFHpA	20.000	18.702	-6.5	93.5
PFHpS	20.000	19.339	-3.3	96.7
PFHxA	20.000	17.977	-10.1	89.9
PFHxS	20.000	18.504	-7.5	92.5
PFNA	20.000	22.703	13.5	113.5
PFOA	20.000	20.324	1.6	101.6
PFOS	20.000	19.466	-2.7	97.3
PFPeA	20.000	17.602	-12.0	88.0
PFTeDA	20.000	20.132	0.7	100.7
PFTrDA	20.000	23.150	15.7	115.7
PFUnDA	20.000	16.979	-15.1	84.9

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ257-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7658.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1020_PFC_SQ257\SQ257.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7658
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.320	-8.4	91.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.129	-14.4	85.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.456	-22.7	77.3
PFBS	20.000	15.927	-20.4	79.6
PFDA	20.000	17.107	-14.5	85.5
PFDoDA	20.000	21.493	7.5	107.5
PFDS	20.000	24.762	23.8	123.8
PFHpA	20.000	18.388	-8.1	91.9
PFHpS	20.000	19.848	-0.8	99.2
PFHxA	20.000	16.892	-15.5	84.5
PFHxS	20.000	18.438	-7.8	92.2
PFNA	20.000	22.809	14.0	114.0
PFOA	20.000	20.421	2.1	102.1
PFOS	20.000	19.533	-2.3	97.7
PFPeA	20.000	16.360	-18.2	81.8
PFTeDA	20.000	20.398	2.0	102.0
PFTrDA	20.000	22.308	11.5	111.5
PFUnDA	20.000	17.874	-10.6	89.4

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ257-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7669.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1020_PFC_SQ257\SQ257.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7669
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.286	-18.6	81.4
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.340	-13.3	86.7
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.274	-23.6	76.4
PFBS	20.000	15.748	-21.3	78.7
PFDA	20.000	17.839	-10.8	89.2
PFDoDA	20.000	21.582	7.9	107.9
PFDS	20.000	23.879	19.4	119.4
PFHpA	20.000	18.184	-9.1	90.9
PFHpS	20.000	19.988	-0.1	99.9
PFHxA	20.000	17.191	-14.0	86.0
PFHxS	20.000	18.655	-6.7	93.3
PFNA	20.000	22.394	12.0	112.0
PFOA	20.000	20.445	2.2	102.2
PFOS	20.000	20.621	3.1	103.1
PFPeA	20.000	16.372	-18.1	81.9
PFTeDA	20.000	19.238	-3.8	96.2
PFTrDA	20.000	22.315	11.6	111.6
PFUnDA	20.000	16.245	-18.8	81.2

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7675.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7675
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.936	-10.3	89.7
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.713	-6.4	93.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.071	-14.6	85.4
PFBS	20.000	15.237	-23.8	76.2
PFDA	20.000	16.671	-16.6	83.4
PFDoDA	20.000	20.579	2.9	102.9
PFDS	20.000	24.433	22.2	122.2
PFHpA	20.000	18.707	-6.5	93.5
PFHpS	20.000	19.619	-1.9	98.1
PFHxA	20.000	18.754	-6.2	93.8
PFHxS	20.000	18.562	-7.2	92.8
PFNA	20.000	18.668	-6.7	93.3
PFOA	20.000	20.189	0.9	100.9
PFOS	20.000	18.729	-6.4	93.6
PFPeA	20.000	18.054	-9.7	90.3
PFTeDA	20.000	17.147	-14.3	85.7
PFTrDA	20.000	18.521	-7.4	92.6
PFUnDA	20.000	15.049	-24.8	75.2

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7687.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7687
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	20.753	3.8	103.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.099	-9.5	90.5
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.535	-12.3	87.7
PFBS	20.000	16.808	-16.0	84.0
PFDA	20.000	18.461	-7.7	92.3
PFDoDA	20.000	20.427	2.1	102.1
PFDS	20.000	29.592	# 48.0	148.0
PFHpA	20.000	17.598	-12.0	88.0
PFHpS	20.000	19.594	-2.0	98.0
PFHxA	20.000	17.984	-10.1	89.9
PFHxS	20.000	18.586	-7.1	92.9
PFNA	20.000	23.171	15.9	115.9
PFOA	20.000	20.074	0.4	100.4
PFOS	20.000	19.551	-2.2	97.8
PFPeA	20.000	17.719	-11.4	88.6
PFTeDA	20.000	16.165	-19.2	80.8
PFTrDA	20.000	25.968	# 29.8	129.8
PFUnDA	20.000	17.400	-13.0	87.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7725.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7725
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.205	-9.0	91.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	15.795	-21.0	79.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.305	-23.5	76.5
PFBS	20.000	15.490	-22.6	77.4
PFDA	20.000	17.071	-14.6	85.4
PFDoDA	20.000	20.803	4.0	104.0
PFDS	20.000	26.907	# 34.5	134.5
PFHpA	20.000	17.304	-13.5	86.5
PFHpS	20.000	19.925	-0.4	99.6
PFHxA	20.000	15.784	-21.1	78.9
PFHxS	20.000	18.397	-8.0	92.0
PFNA	20.000	21.716	8.6	108.6
PFOA	20.000	20.186	0.9	100.9
PFOS	20.000	19.609	-2.0	98.0
PFPeA	20.000	15.772	-21.1	78.9
PFTeDA	20.000	19.929	-0.4	99.6
PFTrDA	20.000	22.927	14.6	114.6
PFUnDA	20.000	16.139	-19.3	80.7

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ258-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7735.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7735
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.330	-13.4	86.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	15.848	-20.8	79.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	14.679	# -26.6	73.4
PFBS	20.000	15.857	-20.7	79.3
PFDA	20.000	16.501	-17.5	82.5
PFDoDA	20.000	20.380	1.9	101.9
PFDS	20.000	25.860	# 29.3	129.3
PFHpA	20.000	17.765	-11.2	88.8
PFHpS	20.000	19.955	-0.2	99.8
PFHxA	20.000	15.574	-22.1	77.9
PFHxS	20.000	18.817	-5.9	94.1
PFNA	20.000	21.028	5.1	105.1
PFOA	20.000	19.681	-1.6	98.4
PFOS	20.000	19.603	-2.0	98.0
PFPeA	20.000	15.860	-20.7	79.3
PFTeDA	20.000	19.324	-3.4	96.6
PFTrDA	20.000	21.061	5.3	105.3
PFUnDA	20.000	16.597	-17.0	83.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ259-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7738.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1022_PFC_SQ259\SQ259.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7738
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.740	-11.3	88.7
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.313	-18.4	81.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.015	-24.9	75.1
PFBS	20.000	16.233	-18.8	81.2
PFDA	20.000	16.428	-17.9	82.1
PFDoDA	20.000	18.661	-6.7	93.3
PFDS	20.000	26.794	# 34.0	134.0
PFHpA	20.000	17.631	-11.8	88.2
PFHpS	20.000	20.007	0.0	100.0
PFHxA	20.000	16.140	-19.3	80.7
PFHxS	20.000	18.735	-6.3	93.7
PFNA	20.000	21.848	9.2	109.2
PFOA	20.000	20.389	1.9	101.9
PFOS	20.000	19.737	-1.3	98.7
PFPeA	20.000	16.017	-19.9	80.1
PFTeDA	20.000	19.243	-3.8	96.2
PFTrDA	20.000	23.012	15.1	115.1
PFUnDA	20.000	15.464	-22.7	77.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ259-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7749.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1022_PFC_SQ259\SQ259.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7749
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.454	-17.7	82.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.448	-17.8	82.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.550	-22.2	77.8
PFBS	20.000	17.038	-14.8	85.2
PFDA	20.000	16.596	-17.0	83.0
PFDoDA	20.000	19.965	-0.2	99.8
PFDS	20.000	21.725	8.6	108.6
PFHpA	20.000	18.222	-8.9	91.1
PFHpS	20.000	20.299	1.5	101.5
PFHxA	20.000	16.459	-17.7	82.3
PFHxS	20.000	19.212	-3.9	96.1
PFNA	20.000	21.218	6.1	106.1
PFOA	20.000	20.105	0.5	100.5
PFOS	20.000	20.239	1.2	101.2
PFPeA	20.000	16.370	-18.1	81.9
PFTeDA	20.000	19.058	-4.7	95.3
PFTrDA	20.000	21.757	8.8	108.8
PFUnDA	20.000	14.758	# -26.2	73.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18988 **Sample:** SQ259-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7758.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1022_PFC_SQ259\SQ259.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7758
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.294	-8.5	91.5
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.018	-19.9	80.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	14.847	# -25.8	74.2
PFBS	20.000	16.770	-16.2	83.8
PFDA	20.000	16.064	-19.7	80.3
PFDoDA	20.000	19.889	-0.6	99.4
PFDS	20.000	25.382	# 26.9	126.9
PFHpA	20.000	18.499	-7.5	92.5
PFHpS	20.000	20.375	1.9	101.9
PFHxA	20.000	16.143	-19.3	80.7
PFHxS	20.000	19.134	-4.3	95.7
PFNA	20.000	21.714	8.6	108.6
PFOA	20.000	20.219	1.1	101.1
PFOS	20.000	19.861	-0.7	99.3
PFPeA	20.000	15.930	-20.4	79.6
PFTeDA	20.000	19.050	-4.8	95.2
PFTrDA	20.000	19.281	-3.6	96.4
PFUnDA	20.000	15.750	-21.3	78.7

CC Criteria: +/- 25%

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-3 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-001

Wet Weight (Total)	6.45	g
Tare Weight	1.01	g
Dry Weight (Total)	6.21	g
Solids, Percent	95.6	%

Sample: FA18988-4 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-002

Wet Weight (Total)	7.4	g
Tare Weight	1.06	g
Dry Weight (Total)	7.28	g
Solids, Percent	98.1	%

Sample: FA18988-5 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-003

Wet Weight (Total)	7.06	g
Tare Weight	1.05	g
Dry Weight (Total)	6.86	g
Solids, Percent	96.7	%

Sample: FA18988-6 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-004

Wet Weight (Total)	6.44	g
Tare Weight	1.03	g
Dry Weight (Total)	6.28	g
Solids, Percent	97	%

Sample: FA18988-7 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-005

Wet Weight (Total)	7.59	g
Tare Weight	1.03	g
Dry Weight (Total)	7.33	g
Solids, Percent	96	%

Sample: FA18988-8 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-006

Wet Weight (Total)	7.27	g
Tare Weight	1	g
Dry Weight (Total)	7.08	g
Solids, Percent	97	%

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-9 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-007

Wet Weight (Total)	7.08	g
Tare Weight	1.01	g
Dry Weight (Total)	6.91	g
Solids, Percent	97.2	%

Sample: FA18988-10 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-008

Wet Weight (Total)	6.26	g
Tare Weight	1.02	g
Dry Weight (Total)	5.75	g
Solids, Percent	90.3	%

Sample: FA18988-11 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-009

Wet Weight (Total)	6.64	g
Tare Weight	.99	g
Dry Weight (Total)	6.12	g
Solids, Percent	90.8	%

Sample: FA18988-12 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-010

Wet Weight (Total)	7.45	g
Tare Weight	1.03	g
Dry Weight (Total)	7.08	g
Solids, Percent	94.2	%

Sample: FA18988-14 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-011

Wet Weight (Total)	6.71	g
Tare Weight	1.03	g
Dry Weight (Total)	6.35	g
Solids, Percent	93.7	%

Sample: FA18988-15 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-012

Wet Weight (Total)	7.24	g
Tare Weight	1.02	g
Dry Weight (Total)	6.87	g
Solids, Percent	94.1	%

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-16 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-013

Wet Weight (Total)	6.67	g
Tare Weight	1	g
Dry Weight (Total)	6.49	g
Solids, Percent	96.8	%

Sample: FA18988-17 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-014

Wet Weight (Total)	6.35	g
Tare Weight	1.01	g
Dry Weight (Total)	6.17	g
Solids, Percent	96.6	%

Sample: FA18988-18 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-015

Wet Weight (Total)	6.61	g
Tare Weight	1.04	g
Dry Weight (Total)	6.23	g
Solids, Percent	93.2	%

Sample: FA18988-19 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-016

Wet Weight (Total)	6.44	g
Tare Weight	1.05	g
Dry Weight (Total)	6.19	g
Solids, Percent	95.4	%

Sample: FA18988-20 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-017

Wet Weight (Total)	6.64	g
Tare Weight	1.03	g
Dry Weight (Total)	6.13	g
Solids, Percent	90.9	%

Sample: FA18988-21 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-019

Wet Weight (Total)	6.95	g
Tare Weight	1.01	g
Dry Weight (Total)	6.33	g
Solids, Percent	89.6	%

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-22 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-020

Wet Weight (Total)	6.06	g
Tare Weight	1.02	g
Dry Weight (Total)	5.58	g
Solids, Percent	90.5	%

Sample: FA18988-23 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-031

Wet Weight (Total)	7.05	g
Tare Weight	.98	g
Dry Weight (Total)	6.85	g
Solids, Percent	96.7	%

Sample: FA18988-24 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-032

Wet Weight (Total)	7.67	g
Tare Weight	1.07	g
Dry Weight (Total)	7.5	g
Solids, Percent	97.4	%

Sample: FA18988-25 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-033

Wet Weight (Total)	6.26	g
Tare Weight	1.04	g
Dry Weight (Total)	6.15	g
Solids, Percent	97.9	%

Sample: FA18988-26 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-034

Wet Weight (Total)	7.42	g
Tare Weight	1.01	g
Dry Weight (Total)	7.2	g
Solids, Percent	96.6	%

Sample: FA18988-27 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-035

Wet Weight (Total)	6.4	g
Tare Weight	1.02	g
Dry Weight (Total)	6.18	g
Solids, Percent	95.9	%

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-28 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-036

Wet Weight (Total)	6.99	g
Tare Weight	1.03	g
Dry Weight (Total)	6.53	g
Solids, Percent	92.3	%

Sample: FA18988-29 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-037

Wet Weight (Total)	7.62	g
Tare Weight	1.02	g
Dry Weight (Total)	7.47	g
Solids, Percent	97.7	%

Sample: FA18988-30 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-038

Wet Weight (Total)	7.58	g
Tare Weight	1.04	g
Dry Weight (Total)	6.98	g
Solids, Percent	90.8	%

Sample: FA18988-31 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-039

Wet Weight (Total)	7.72	g
Tare Weight	1.05	g
Dry Weight (Total)	6.41	g
Solids, Percent	80.4	%

Sample: FA18988-32 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-040

Wet Weight (Total)	7.03	g
Tare Weight	1.04	g
Dry Weight (Total)	5.94	g
Solids, Percent	81.8	%

Sample: FA18988-33 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-041

Wet Weight (Total)	6.26	g
Tare Weight	1.03	g
Dry Weight (Total)	5.21	g
Solids, Percent	79.9	%

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-34 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-052

Wet Weight (Total)	6.25	g
Tare Weight	.98	g
Dry Weight (Total)	5.87	g
Solids, Percent	92.8	%

Sample: FA18988-35 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-053

Wet Weight (Total)	7.03	g
Tare Weight	.99	g
Dry Weight (Total)	6.83	g
Solids, Percent	96.7	%

Sample: FA18988-37 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-054

Wet Weight (Total)	6.46	g
Tare Weight	1.01	g
Dry Weight (Total)	6.28	g
Solids, Percent	96.7	%

Sample: FA18988-38 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-055

Wet Weight (Total)	7.31	g
Tare Weight	1.01	g
Dry Weight (Total)	7.09	g
Solids, Percent	96.5	%

Sample: FA18988-39 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-056

Wet Weight (Total)	8.19	g
Tare Weight	1.01	g
Dry Weight (Total)	7.89	g
Solids, Percent	95.8	%

Sample: FA18988-40 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-057

Wet Weight (Total)	6.85	g
Tare Weight	1.05	g
Dry Weight (Total)	6.66	g
Solids, Percent	96.7	%

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-41 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-058

Wet Weight (Total)	6.18	g
Tare Weight	.99	g
Dry Weight (Total)	5.94	g
Solids, Percent	95.4	%

Sample: FA18988-42 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-059

Wet Weight (Total)	7.04	g
Tare Weight	1.02	g
Dry Weight (Total)	6.19	g
Solids, Percent	85.9	%

Sample: FA18988-43 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-060

Wet Weight (Total)	6.27	g
Tare Weight	1.02	g
Dry Weight (Total)	5.2	g
Solids, Percent	79.6	%

Sample: FA18988-44 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-061

Wet Weight (Total)	6.57	g
Tare Weight	1.02	g
Dry Weight (Total)	5.55	g
Solids, Percent	81.6	%

Sample: FA18988-45 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-062

Wet Weight (Total)	6.37	g
Tare Weight	1	g
Dry Weight (Total)	5.32	g
Solids, Percent	80.5	%

Sample: FA18988-46 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-074

Wet Weight (Total)	7.07	g
Tare Weight	1.01	g
Dry Weight (Total)	6.91	g
Solids, Percent	97.4	%

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-47 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-075

Wet Weight (Total)	6.43	g
Tare Weight	1.02	g
Dry Weight (Total)	6.22	g
Solids, Percent	96.1	%

Sample: FA18988-48 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-018

Wet Weight (Total)	7.53	g
Tare Weight	1.03	g
Dry Weight (Total)	7.15	g
Solids, Percent	94.2	%

Sample: FA18988-49 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-076

Wet Weight (Total)	7.81	g
Tare Weight	1.01	g
Dry Weight (Total)	7.52	g
Solids, Percent	95.7	%

Sample: FA18988-50 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-077

Wet Weight (Total)	6.24	g
Tare Weight	1.01	g
Dry Weight (Total)	5.86	g
Solids, Percent	92.7	%

Sample: FA18988-51 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-078

Wet Weight (Total)	6.8	g
Tare Weight	1	g
Dry Weight (Total)	6.56	g
Solids, Percent	95.9	%

Sample: FA18988-52 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-079

Wet Weight (Total)	6.43	g
Tare Weight	.96	g
Dry Weight (Total)	5.86	g
Solids, Percent	89.6	%

Percent Solids Raw Data Summary

Job Number: FA18988
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18988-53 **Analyzed:** 14-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-080

Wet Weight (Total)	6.63	g
Tare Weight	.96	g
Dry Weight (Total)	6.41	g
Solids, Percent	96.1	%

Sample: FA18988-54 **Analyzed:** 17-OCT-14 by JC **Method:** SM19 2540G
ClientID: PLTSB-SO-073

Wet Weight (Total)	7.76	g
Tare Weight	1.02	g
Dry Weight (Total)	7.52	g
Solids, Percent	96.4	%

Southeast
ACCUTEST LABORATORIES

10/24/14



Technical Report for

AMEC Environment & Infrastructure, Inc.

Plattsburgh AFB; Plattsburgh, NY

775290177

Accutest Job Number: FA19006

Sampling Date: 10/08/14

Report to:

AMEC Environment & Infrastructure, Inc.

marie.bevier@amec.com

ATTN: Marie Bevier

Total number of pages in report: **104**

NELAP ACCREDITED TNI LABORATORY

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

Norm Farmer
Technical Director

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Sample Summary

AMEC Environment & Infrastructure, Inc.

Job No: FA19006

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA19006-1	10/08/14	09:20	MY	10/09/14	AQ	Equipment Blank	PLTSB-FT002P-BLK05
FA19006-2	10/08/14	10:00	MY	10/09/14	SO	Soil	PLTSB-SO-063
FA19006-3	10/08/14	10:07	MY	10/09/14	SO	Soil	PLTSB-SO-064
FA19006-4	10/08/14	10:18	MY	10/09/14	SO	Soil	PLTSB-SO-065
FA19006-5	10/08/14	10:18	MY	10/09/14	SO	Soil	PLTSB-SO-066
FA19006-6	10/08/14	10:30	MY	10/09/14	SO	Soil	PLTSB-SO-067
FA19006-7	10/08/14	10:40	MY	10/09/14	SO	Soil	PLTSB-SO-068
FA19006-8	10/08/14	11:00	MY	10/09/14	SO	Soil	PLTSB-SO-069
FA19006-9	10/08/14	07:41	MY	10/09/14	SO	Soil	PLTSB-SO-081
FA19006-10	10/08/14	07:41	MY	10/09/14	SO	Soil	PLTSB-SO-082
FA19006-11	10/08/14	07:55	MY	10/09/14	SO	Soil	PLTSB-SO-083
FA19006-12	10/08/14	07:55	MY	10/09/14	SO	Soil	PLTSB-SO-084
FA19006-13	10/08/14	11:45	MY	10/09/14	AQ	Equipment Blank	PLTSB-FT002P-BLK06

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

AMEC Environment & Infrastructure, Inc.

Job No: FA19006

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA19006-14	10/08/14	13:00	MY	10/09/14	AQ	Equipment Blank	PLTSB-FT002P-BLK07
FA19006-15	10/08/14	11:48	MY	10/09/14	SO	Soil	PLTSB-SO-042
FA19006-16	10/08/14	11:55	MY	10/09/14	SO	Soil	PLTSB-SO-043
FA19006-17	10/08/14	11:55	MY	10/09/14	SO	Soil	PLTSB-SO-044
FA19006-18	10/08/14	12:50	MY	10/09/14	SO	Soil	PLTSB-SO-045
FA19006-19	10/08/14	12:20	MY	10/09/14	SO	Soil	PLTSB-SO-046
FA19006-20	10/08/14	12:30	MY	10/09/14	SO	Soil	PLTSB-SO-047
FA19006-21	10/08/14	12:40	MY	10/09/14	SO	Soil	PLTSB-SO-048
FA19006-22	10/08/14	12:55	MY	10/09/14	SO	Soil	PLTSB-SO-049
FA19006-23	10/08/14	11:00	MY	10/09/14	SO	Soil	PLTSB-SO-070
FA19006-24	10/08/14	11:00	MY	10/09/14	SO	Soil	PLTSB-SO-071
FA19006-25	10/08/14	16:00	MY	10/09/14	AQ	Equipment Blank	PLTSB-FT002P-BLK09
FA19006-26	10/08/14	14:00	MY	10/09/14	SO	Soil	PLTSB-SO-021

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

AMEC Environment & Infrastructure, Inc.

Job No: FA19006

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA19006-27	10/08/14	14:00	MY	10/09/14	SO	Soil	PLTSB-SO-022
FA19006-28	10/08/14	14:05	MY	10/09/14	SO	Soil	PLTSB-SO-023
FA19006-29	10/08/14	14:15	MY	10/09/14	SO	Soil	PLTSB-SO-024
FA19006-30	10/08/14	14:22	MY	10/09/14	SO	Soil	PLTSB-SO-025
FA19006-31	10/08/14	14:30	MY	10/09/14	SO	Soil	PLTSB-SO-026
FA19006-32	10/08/14	14:40	MY	10/09/14	SO	Soil	PLTSB-SO-027
FA19006-33	10/08/14	14:55	MY	10/09/14	SO	Soil	PLTSB-SO-028
FA19006-34	10/08/14	15:10	MY	10/09/14	SO	Soil	PLTSB-SO-029

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc. **Job No:** FA19006

Site: Plattsburgh AFB; Plattsburgh, NY **Report Date** 10/23/2014 5:25:08

34 Samples were collected on 10/08/2014 and were received at Accutest on 10/09/2014 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of FA19006. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP53509

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA19002-1MS, FA19002-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorohexanesulfonic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in clean matrix refer to Blank Spike.

Matrix: SO **Batch ID:** OP53512

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA18988-45MS, FA18988-45MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** OP53513

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA19006-12MS, FA19006-12MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) OP53623-MSD, FA19006-30, FA19006-31, FA19006-18, FA19006-28, FA19006-29 have surrogates outside control limits. Confirmation run for surrogate recoveries.

FA19006-18, 28, 29, 30, 31: Sample re-extracted beyond hold time; reported results confirmed.

FA19006-30 for 13C2-PFHxA: Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

FA19006-29 for 13C2-PFHxA: Outside control limits.

FA19006-18 for 13C2-PFHxA: Outside control limits.

FA19006-28 for 13C2-PFHxA: Outside control limits.

FA19006-30 for 13C2-PFDA: Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

Matrix: SO **Batch ID:** OP53623

All samples were analyzed within the recommended method holding time.

Extractables by GCMS By Method EPA 537 MOD

Matrix: SO **Batch ID:** OP53623

All method blanks for this batch meet method specific criteria.

The following samples were extracted outside of holding time for method EPA 537 MOD: FA19006-29, FA19006-30, FA19006-31, FA19006-18, FA19006-28

Sample(s) OP53623-MSD, FA19006-30, FA19006-31, FA19006-18, FA19006-28, FA19006-29 have surrogates outside control limits. Confirmation run for surrogate recoveries.

FA19006-29: Confirmation run for surrogate recoveries.

FA19006-28: Confirmation run for surrogates.

FA19006-18: Confirmation run for surrogates.

FA19006-31: Confirmation run for surrogate recoveries.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN63649

Sample(s) FA18903-242DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN63650

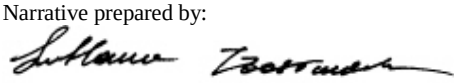
Sample(s) FA19006-8DUP, FA19006-9DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN63652

Sample(s) FA18926-1DUP were used as the QC samples for Solids, Percent.

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

Narrative prepared by:



Date: October 24, 2014

Svetlana Izosimova, QA Officer

Sample Location	Sample ID	Sample Date	Sample Depth	Lab ID
PLTSB-FT002P-003	PLTSB-SO-021	10/08/14	(0 to 1)	FA19006-26
PLTSB-FT002P-003	PLTSB-SO-022	10/08/14	(0 to 1)	FA19006-27
PLTSB-FT002P-003	PLTSB-SO-023	10/08/14	(3 to 5)	FA19006-28
PLTSB-FT002P-003	PLTSB-SO-024	10/08/14	(8 to 10)	FA19006-29
PLTSB-FT002P-003	PLTSB-SO-025	10/08/14	(13 to 15)	FA19006-30
PLTSB-FT002P-003	PLTSB-SO-026	10/08/14	(18 to 20)	FA19006-31
PLTSB-FT002P-003	PLTSB-SO-027	10/08/14	(23 to 25)	FA19006-32
PLTSB-FT002P-003	PLTSB-SO-028	10/08/14	(28 to 30)	FA19006-33
PLTSB-FT002P-003	PLTSB-SO-029	10/08/14	(33 to 35)	FA19006-34
PLTSB-FT002P-005	PLTSB-SO-042	10/8/2014	(0 to 1)	FA19006-15
PLTSB-FT002P-005	PLTSB-SO-043	10/8/2014	(3 to 5)	FA19006-16
PLTSB-FT002P-005	PLTSB-SO-044	10/8/2014	(3 to 5)	FA19006-17
PLTSB-FT002P-005	PLTSB-SO-045	10/8/2014	(8 to 10)	FA19006-18
PLTSB-FT002P-005	PLTSB-SO-046	10/8/2014	(13 to 15)	FA19006-19
PLTSB-FT002P-005	PLTSB-SO-047	10/8/2014	(18 to 20)	FA19006-20
PLTSB-FT002P-005	PLTSB-SO-048	10/8/2014	(23 to 25)	FA19006-21
PLTSB-FT002P-005	PLTSB-SO-049	10/8/2014	(28 to 30)	FA19006-22
PLTSB-FT002P-007	PLTSB-SO-063	10/8/2014	(0 to 1)	FA19006-2
PLTSB-FT002P-007	PLTSB-SO-064	10/8/2014	(3 to 5)	FA19006-3
PLTSB-FT002P-007	PLTSB-SO-065	10/8/2014	(8 to 10)	FA19006-4
PLTSB-FT002P-007	PLTSB-SO-066	10/8/2014	(8 to 10)	FA19006-5
PLTSB-FT002P-007	PLTSB-SO-067	10/8/2014	(13 to 15)	FA19006-6
PLTSB-FT002P-007	PLTSB-SO-068	10/8/2014	(18 to 20)	FA19006-7
PLTSB-FT002P-007	PLTSB-SO-069	10/8/2014	(23 to 25)	FA19006-8
PLTSB-FT002P-007	PLTSB-SO-070	10/8/2014	(28 to 30)	FA19006-23
PLTSB-FT002P-007	PLTSB-SO-071	10/8/2014	(28 to 30)	FA19006-24
PLTSB-FT002P-008	PLTSB-SO-081	10/8/2014	(33 to 35)	FA19006-9
PLTSB-FT002P-008	PLTSB-SO-082	10/8/2014	(33 to 35)	FA19006-10
PLTSB-FT002P-008	PLTSB-SO-083	10/8/2014	(38 to 40)	FA19006-11
PLTSB-FT002P-008	PLTSB-SO-084	10/8/2014	(38 to 40)	FA19006-12

Summary of Hits

Job Number: FA19006
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/08/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA19006-1	**PLTSB-FT002P-BLK05**					
No hits reported in this sample.						
FA19006-2	**PLTSB-SO-063**					
No hits reported in this sample.						
FA19006-3	**PLTSB-SO-064**					
No hits reported in this sample.						
FA19006-4	**PLTSB-SO-065**					
No hits reported in this sample.						
FA19006-5	**PLTSB-SO-066**					
No hits reported in this sample.						
FA19006-6	**PLTSB-SO-067**					
No hits reported in this sample.						
FA19006-7	**PLTSB-SO-068**					
No hits reported in this sample.						
FA19006-8	**PLTSB-SO-069**					
Perfluorooctanesulfonic acid		187	11	9.1	ug/kg	EPA 537 MOD
FA19006-9	**PLTSB-SO-081**					
Perfluorooctanesulfonic acid		9.28 J	13	10	ug/kg	EPA 537 MOD
FA19006-10	**PLTSB-SO-082**					
Perfluorooctanesulfonic acid		9.36 J	15	12	ug/kg	EPA 537 MOD
FA19006-11	**PLTSB-SO-083**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA19006
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA19006-12	**PLTSB-SO-084**					
No hits reported in this sample.						
FA19006-13	**PLTSB-FT002P-BLK06**					
No hits reported in this sample.						
FA19006-14	**PLTSB-FT002P-BLK07**					
No hits reported in this sample.						
FA19006-15	**PLTSB-SO-042**					
Perfluorooctanesulfonic acid		18.3	13	10	ug/kg	EPA 537 MOD
FA19006-16	**PLTSB-SO-043**					
No hits reported in this sample.						
FA19006-17	**PLTSB-SO-044**					
No hits reported in this sample.						
FA19006-18	**PLTSB-SO-045**					
No hits reported in this sample.						
FA19006-19	**PLTSB-SO-046**					
No hits reported in this sample.						
FA19006-20	**PLTSB-SO-047**					
No hits reported in this sample.						
FA19006-21	**PLTSB-SO-048**					
No hits reported in this sample.						
FA19006-22	**PLTSB-SO-049**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA19006
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA19006-23	**PLTSB-SO-070**					
No hits reported in this sample.						
FA19006-24	**PLTSB-SO-071**					
No hits reported in this sample.						
FA19006-25	**PLTSB-FT002P-BLK09**					
No hits reported in this sample.						
FA19006-26	**PLTSB-SO-021**					
No hits reported in this sample.						
FA19006-27	**PLTSB-SO-022**					
No hits reported in this sample.						
FA19006-28	**PLTSB-SO-023**					
Perfluorooctanesulfonic acid [a]		13.0	11	8.5	ug/kg	EPA 537 MOD
FA19006-29	**PLTSB-SO-024**					
No hits reported in this sample.						
FA19006-30	**PLTSB-SO-025**					
No hits reported in this sample.						
FA19006-31	**PLTSB-SO-026**					
No hits reported in this sample.						
FA19006-32	**PLTSB-SO-027**					
Perfluorooctanoic acid		9.58 J	22	18	ug/kg	EPA 537 MOD
Perfluorohexanesulfonic acid		18.8	11	8.8	ug/kg	EPA 537 MOD
FA19006-33	**PLTSB-SO-028**					
Perfluorohexanesulfonic acid		12.4 J	13	11	ug/kg	EPA 537 MOD

Summary of Hits

Job Number: FA19006
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 10/08/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA19006-34	**PLTSB-SO-029**					
Perfluorohexanesulfonic acid		6.00 J	13	10	ug/kg	EPA 537 MOD

(a) Sample re-extracted beyond hold time; reported results confirmed.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK05		
Lab Sample ID:	FA19006-1	**Date Sampled:**	10/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/09/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7553.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	102%		70-130%
	13C2-PFDA	96%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SO-063
Lab Sample ID: FA19006-2
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 94.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7771.D	1	10/23/14	NAF	10/15/14	OP53512	SQ260
Run #2							

	Initial Weight	Final Volume
Run #1	1.02 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.2	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	10 U	13	10	5.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	81%		70-130%
	13C2-PFDA	92%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-064		
Lab Sample ID:	FA19006-3	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.3
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7689.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.23 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.4 U	10	8.4	4.2	ug/kg	
335-67-1	Perfluorooctanoic acid	17 U	21	17	8.4	ug/kg	
375-95-1	Perfluorononanoic acid	8.4 U	10	8.4	4.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.4 U	10	8.4	4.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.4 U	10	8.4	4.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.4 U	10	8.4	4.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	81%		70-130%
	13C2-PFDA	91%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-065		
Lab Sample ID:	FA19006-4	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	98.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7690.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.18 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.6 U	11	8.6	4.3	ug/kg	
335-67-1	Perfluorooctanoic acid	17 U	21	17	8.6	ug/kg	
375-95-1	Perfluorononanoic acid	8.6 U	11	8.6	4.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.6 U	11	8.6	4.3	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.6 U	11	8.6	4.3	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.6 U	11	8.6	4.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	82%		70-130%
	13C2-PFDA	92%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-066		
Lab Sample ID:	FA19006-5	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	98.1
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7693.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.18 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.6 U	11	8.6	4.3	ug/kg	
335-67-1	Perfluorooctanoic acid	17 U	22	17	8.6	ug/kg	
375-95-1	Perfluorononanoic acid	8.6 U	11	8.6	5.0	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.6 U	11	8.6	4.3	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.6 U	11	8.6	4.3	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.6 U	11	8.6	4.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	79%		70-130%
	13C2-PFDA	87%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-067		
Lab Sample ID:	FA19006-6	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	97.3
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7694.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.24 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.3 U	10	8.3	4.1	ug/kg	
335-67-1	Perfluorooctanoic acid	17 U	21	17	8.3	ug/kg	
375-95-1	Perfluorononanoic acid	8.3 U	10	8.3	4.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.3 U	10	8.3	4.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.3 U	10	8.3	4.1	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.3 U	10	8.3	4.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	80%		70-130%
	13C2-PFDA	88%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-068		
Lab Sample ID:	FA19006-7	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	98.0
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7683.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.10 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.3 U	12	9.3	4.6	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	23	19	9.3	ug/kg	
375-95-1	Perfluorononanoic acid	9.3 U	12	9.3	5.3	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.3 U	12	9.3	4.6	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.3 U	12	9.3	4.6	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.3 U	12	9.3	4.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	87%		70-130%
	13C2-PFDA	108%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-069		
Lab Sample ID:	FA19006-8	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	93.5
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7684.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.18 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.1 U	11	9.1	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	23	18	9.1	ug/kg	
375-95-1	Perfluorononanoic acid	9.1 U	11	9.1	5.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.1 U	11	9.1	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.1 U	11	9.1	4.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	187	11	9.1	4.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	82%		70-130%
	13C2-PFDA	102%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-081		
Lab Sample ID:	FA19006-9	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	81.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7685.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.17 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.2	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	6.0	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.28	13	10	5.2	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	84%		70-130%
	13C2-PFDA	102%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SO-082
Lab Sample ID: FA19006-10
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 81.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7691.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.01 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	12 U	15	12	6.1	ug/kg	
335-67-1	Perfluorooctanoic acid	24 U	30	24	12	ug/kg	
375-95-1	Perfluorononanoic acid	12 U	15	12	7.0	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	12 U	15	12	6.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	12 U	15	12	6.1	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.36	15	12	6.1	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	79%		70-130%
	13C2-PFDA	90%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SO-083
Lab Sample ID: FA19006-11
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 80.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7692.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.16 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.4	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	27	21	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	13	11	5.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	13	11	5.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	78%		70-130%
	13C2-PFDA	87%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-084		
Lab Sample ID:	FA19006-12	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	82.1
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7699.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.24 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.8 U	12	9.8	4.9	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	9.8	ug/kg	
375-95-1	Perfluorononanoic acid	9.8 U	12	9.8	5.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.8 U	12	9.8	4.9	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.8 U	12	9.8	4.9	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.8 U	12	9.8	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	76%		70-130%
	13C2-PFDA	87%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK06		
Lab Sample ID:	FA19006-13	**Date Sampled:**	10/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/09/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7554.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.033 U	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	105%		70-130%
	13C2-PFDA	97%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK07		
Lab Sample ID:	FA19006-14	**Date Sampled:**	10/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/09/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7555.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.033 U	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	101%		70-130%
	13C2-PFDA	96%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SO-042
Lab Sample ID: FA19006-15
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 97.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7702.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.02 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	18.3	13	10	5.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	72%		70-130%
	13C2-PFDA	83%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-SO-043
Lab Sample ID: FA19006-16
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 95.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7703.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.13 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.3 U	12	9.3	4.6	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	23	19	9.3	ug/kg	
375-95-1	Perfluorononanoic acid	9.3 U	12	9.3	5.3	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.3 U	12	9.3	4.6	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.3 U	12	9.3	4.6	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.3 U	12	9.3	4.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	74%		70-130%
	13C2-PFDA	81%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-SO-044
Lab Sample ID: FA19006-17
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 95.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7704.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.28 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.2 U	10	8.2	4.1	ug/kg	
335-67-1	Perfluorooctanoic acid	16 U	20	16	8.2	ug/kg	
375-95-1	Perfluorononanoic acid	8.2 U	10	8.2	4.7	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.2 U	10	8.2	4.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.2 U	10	8.2	4.1	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.2 U	10	8.2	4.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	77%		70-130%
	13C2-PFDA	84%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-045		
Lab Sample ID:	FA19006-18	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	92.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q7740.D	1	10/22/14	NAF	10/15/14	OP53513	SQ259
Run #2 [b]	Q7764.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260

	Initial Weight	Final Volume
Run #1	1.08 g	5.0 ml
Run #2	1.03 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	12	10	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	12	10	5.7	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	12	10	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	12	10	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	10 U	12	10	5.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	69% [c]	83%	70-130%
	13C2-PFDA	78%	76%	70-130%

(a) Sample re-extracted beyond hold time; reported results confirmed.
(b) Confirmation run for surrogates.
(c) Outside control limits.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-046		
Lab Sample ID:	FA19006-19	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	95.3
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7708.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.8 U	12	9.8	4.9	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	25	20	9.8	ug/kg	
375-95-1	Perfluorononanoic acid	9.8 U	12	9.8	5.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.8 U	12	9.8	4.9	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.8 U	12	9.8	4.9	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.8 U	12	9.8	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	75%		70-130%
	13C2-PFDA	80%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-047		
Lab Sample ID:	FA19006-20	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.6
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7709.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.23 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.4 U	11	8.4	4.2	ug/kg	
335-67-1	Perfluorooctanoic acid	17 U	21	17	8.4	ug/kg	
375-95-1	Perfluorononanoic acid	8.4 U	11	8.4	4.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.4 U	11	8.4	4.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.4 U	11	8.4	4.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.4 U	11	8.4	4.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	73%		70-130%
	13C2-PFDA	85%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SO-048
Lab Sample ID: FA19006-21
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 92.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7710.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.15 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.4 U	12	9.4	4.7	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	23	19	9.4	ug/kg	
375-95-1	Perfluorononanoic acid	9.4 U	12	9.4	5.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.4 U	12	9.4	4.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	80%		70-130%
	13C2-PFDA	86%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-049		
Lab Sample ID:	FA19006-22	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	86.3
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7711.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	14	11	5.4	ug/kg	
335-67-1	Perfluorooctanoic acid	22 U	27	22	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	14	11	6.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	14	11	5.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	14	11	5.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	14	11	5.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	76%		70-130%
	13C2-PFDA	84%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-SO-070
Lab Sample ID: FA19006-23
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 85.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7712.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.11 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.3	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.0	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.3	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	13	11	5.3	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	13	11	5.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	78%		70-130%
	13C2-PFDA	85%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-SO-071
Lab Sample ID: FA19006-24
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 85.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7713.D	1	10/22/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.21 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.7 U	12	9.7	4.8	ug/kg	
335-67-1	Perfluorooctanoic acid	19 U	24	19	9.7	ug/kg	
375-95-1	Perfluorononanoic acid	9.7 U	12	9.7	5.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.7 U	12	9.7	4.8	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.7 U	12	9.7	4.8	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.7 U	12	9.7	4.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	75%		70-130%
	13C2-PFDA	85%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK09		
Lab Sample ID:	FA19006-25	**Date Sampled:**	10/08/14
Matrix:	AQ - Equipment Blank	**Date Received:**	10/09/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7556.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	103%		70-130%
	13C2-PFDA	97%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SO-021
Lab Sample ID: FA19006-26
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 95.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7714.D	1	10/22/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.17 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.9 U	11	8.9	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	22	18	8.9	ug/kg	
375-95-1	Perfluorononanoic acid	8.9 U	11	8.9	5.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.9 U	11	8.9	4.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	73%		70-130%
	13C2-PFDA	81%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-SO-022
Lab Sample ID: FA19006-27
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 95.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7715.D	1	10/22/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.26 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.3 U	10	8.3	4.2	ug/kg	
335-67-1	Perfluorooctanoic acid	17 U	21	17	8.3	ug/kg	
375-95-1	Perfluorononanoic acid	8.3 U	10	8.3	4.8	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.3 U	10	8.3	4.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.3 U	10	8.3	4.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.3 U	10	8.3	4.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	74%		70-130%
	13C2-PFDA	81%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-023		
Lab Sample ID:	FA19006-28	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	98.1
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q7716.D	1	10/22/14	NAF	10/15/14	OP53513	SQ258
Run #2 [b]	Q7765.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260

	Initial Weight	Final Volume
Run #1	1.20 g	5.0 ml
Run #2	1.13 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.5 U	11	8.5	4.2	ug/kg	
335-67-1	Perfluorooctanoic acid	17 U	21	17	8.5	ug/kg	
375-95-1	Perfluorononanoic acid	8.5 U	11	8.5	4.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.5 U	11	8.5	4.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	8.5 U	11	8.5	4.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	13.0	11	8.5	4.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	64% [c]	71%	70-130%
	13C2-PFDA	70%	79%	70-130%

(a) Sample re-extracted beyond hold time; reported results confirmed.
(b) Confirmation run for surrogates.
(c) Outside control limits.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-024		
Lab Sample ID:	FA19006-29	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q7717.D	1	10/22/14	NAF	10/15/14	OP53513	SQ258
Run #2 [b]	Q7768.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260

	Initial Weight	Final Volume
Run #1	1.00 g	5.0 ml
Run #2	1.18 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.2	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	26	21	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.2	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	10 U	13	10	5.2	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	10 U	13	10	5.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	64% [c]	70%	70-130%
	13C2-PFDA	70%	79%	70-130%

(a) Sample re-extracted beyond hold time; reported results confirmed.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-025		
Lab Sample ID:	FA19006-30	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	92.9
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q7741.D	1	10/22/14	NAF	10/15/14	OP53513	SQ259
Run #2 [b]	Q7769.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260

	Initial Weight	Final Volume
Run #1	1.19 g	5.0 ml
Run #2	1.13 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.0 U	11	9.0	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	23	18	9.0	ug/kg	
375-95-1	Perfluorononanoic acid	9.0 U	11	9.0	5.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.0 U	11	9.0	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.0 U	11	9.0	4.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.0 U	11	9.0	4.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	52% [c]	53%	70-130%
	13C2-PFDA	51% [c]	62%	70-130%

(a) Sample re-extracted beyond hold time; reported results confirmed.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SO-026		
Lab Sample ID:	FA19006-31	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	96.5
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q7742.D	1	10/22/14	NAF	10/15/14	OP53513	SQ259
Run #2 [b]	Q7770.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260

	Initial Weight	Final Volume
Run #1	1.14 g	5.0 ml
Run #2	1.15 g	5.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	9.1 U	11	9.1	4.5	ug/kg	
335-67-1	Perfluorooctanoic acid	18 U	23	18	9.1	ug/kg	
375-95-1	Perfluorononanoic acid	9.1 U	11	9.1	5.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	9.1 U	11	9.1	4.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	9.1 U	11	9.1	4.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	9.1 U	11	9.1	4.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	52%	79%	70-130%
	13C2-PFDA	51%	88%	70-130%

(a) Sample re-extracted beyond hold time; reported results confirmed.
(b) Confirmation run for surrogate recoveries.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SO-027
Lab Sample ID: FA19006-32
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 96.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7721.D	1	10/22/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.18 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	8.8 U	11	8.8	4.4	ug/kg	
335-67-1	Perfluorooctanoic acid	9.58	22	18	8.8	ug/kg	J
375-95-1	Perfluorononanoic acid	8.8 U	11	8.8	5.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	8.8 U	11	8.8	4.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	18.8	11	8.8	4.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	8.8 U	11	8.8	4.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	74%		70-130%
	13C2-PFDA	83%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SO-028		
Lab Sample ID:	FA19006-33	**Date Sampled:**	10/08/14
Matrix:	SO - Soil	**Date Received:**	10/09/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	88.8
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7722.D	1	10/22/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.06 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.3	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	27	21	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.1	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.3	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	12.4	13	11	5.3	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	11 U	13	11	5.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	76%		70-130%
	13C2-PFDA	88%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SO-029
Lab Sample ID: FA19006-34
Matrix: SO - Soil
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 10/08/14
Date Received: 10/09/14
Percent Solids: 83.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7723.D	1	10/22/14	NAF	10/15/14	OP53513	SQ258
Run #2							

	Initial Weight	Final Volume
Run #1	1.17 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	10 U	13	10	5.1	ug/kg	
335-67-1	Perfluorooctanoic acid	20 U	26	20	10	ug/kg	
375-95-1	Perfluorononanoic acid	10 U	13	10	5.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	10 U	13	10	5.1	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	6.00	13	10	5.1	ug/kg	J
1763-23-1	Perfluorooctanesulfonic acid	10 U	13	10	5.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	78%		70-130%
	13C2-PFDA	87%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA19006

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Attn: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/8/2014
COC #: AC_10820143
PAGE: 1 OF 3

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)	TOTAL BOTTLES	HOLD All Analyses
1	PLTSB-FT002P-BLK05	10/08/14 09:20	WQ	EB	N	X		
2	PLTSB-SO-063	10/08/14 10:00	SO	N	N	X		
3	PLTSB-SO-064	10/08/14 10:07	SO	N	N	X		
4	PLTSB-SO-065	10/08/14 10:18	SO	N	Y	X		
5	PLTSB-SO-066	10/08/14 10:18	SO	FD	N	X		
6	PLTSB-SO-067	10/08/14 10:30	SO	N	N	X		
7	PLTSB-SO-068	10/08/14 10:40	SO	N	N	X		
8	PLTSB-SO-069	10/08/14 11:00	SO	N	N	X		
9	PLTSB-SO-081	10/08/14 07:41	SO	N	N	X		
10	PLTSB-SO-082	10/08/14 07:41	SO	N	Y	X		
11	PLTSB-SO-083	10/08/14 07:55	SO	N	N	X		
12	PLTSB-SO-084	10/08/14 07:55	SO	FD	N	X		

Methods for Analysis

RUSH

Sample Information

Sampler's Signature: Date: 10/8/14 Time: 1700

Relinquished By/Affiliation: Date: 10/8/14 Time: 1700

Received By: FA Date: Time:

Relinquished By/Affiliation: FA 10-09-14 Date: Time: 915

Received By: 10-09-14 Date: Time: 915

Relinquished By/Affiliation: Date: Time:

Received By (LAB): Date: Time:

For Lab Use

Does COC match samples: Y or N
Broken Container: Y or N
COC seal intact: Y or N
Other problems: Y or N
WSDOT contacted: Y or N
Date contacted: _____

Cooler Temperature at receipt: _____ C

3.6

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

5.1
5

FA19006: Chain of Custody
Page 1 of 5

FA19006

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Attn: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/8/2014
COC #: AC_10820143
PAGE: 2 OF 3

	No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)	TOTAL BOTTLES	HOLD All Analyses
13	1	PLTSB-FT002P-BLK06	10/08/14 11:45	WQ	EB	N	X		
14	2	PLTSB-FT002P-BLK07	10/08/14 13:00	WQ	EB	N	X		
15	3	PLTSB-SO-042	10/08/14 11:48	SO	N	N	X		
16	4	PLTSB-SO-043	10/08/14 11:55	SO	N	N	X		
17	5	PLTSB-SO-044	10/08/14 11:55	SO	FD	N	X		
18	6	PLTSB-SO-045	10/08/14 12:50	SO	N	N	X		
19	7	PLTSB-SO-046	10/08/14 12:20	SO	N	N	X		
20	8	PLTSB-SO-047	10/08/14 12:30	SO	N	N	X		
21	9	PLTSB-SO-048	10/08/14 12:40	SO	N	N	X		
22	10	PLTSB-SO-049	10/08/14 12:55	SO	N	N	X		
23	11	PLTSB-SO-070	10/08/14 11:00	SO	N	Y	X		
24	12	PLTSB-SO-071	10/08/14 11:00	SO	FD	N	X		

Methods for Analysis

RUSH

Sampler's Signature: Date: 10/8/14 Time: 1700

Relinquished By/Affiliation: Date: 10/8/14 Time: 1700

Received By: FA Date: Time:

Relinquished By/Affiliation: FA Date: 10-9-14 Time: 915

Received By: Date: Time:

Relinquished By/Affiliation: Date: Time:

Received By (LAB): Date: Time:

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	____ C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

5.1
5

FA19006: Chain of Custody
Page 2 of 5

FA19006

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Attn: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 10/8/2014
COC #: AC_10820143
PAGE: 3 OF 3

	No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)	TOTAL BOTTLES	HOLD All Analyses
25	1	PLTSB-FT002P-BLK09	10/08/14 16:00	WQ	EB	N	X		
26	2	PLTSB-SO-021	10/08/14 14:00	SO	N	N	X		
27	3	PLTSB-SO-022	10/08/14 14:00	SO	FD	N	X		
28	4	PLTSB-SO-023	10/08/14 14:05	SO	N	N	X		
29	5	PLTSB-SO-024	10/08/14 14:15	SO	N	N	X		
30	6	PLTSB-SO-025	10/08/14 14:22	SO	N	N	X		
31	7	PLTSB-SO-026	10/08/14 14:30	SO	N	N	X		
32	8	PLTSB-SO-027	10/08/14 14:40	SO	N	N	X		
33	9	PLTSB-SO-028	10/08/14 14:55	SO	N	N	X		
34	10	PLTSB-SO-029	10/08/14 15:10	SO	N	N	X		
	11								
	12								

Methods for Analysis

RUSH

Sampler's Signature: Date: 10/8/14 Time: 1720

Relinquished By/Affiliation: Date: 10/8/14 Time: 1720

Received By: FE Date: Time:

Relinquished By/Affiliation: FE 10-09-14 Date: 915 Time:

Received By: Date: Time:

Relinquished By/Affiliation: Date: Time:

Received By (LAB): Date: Time:

For Lab Use

Does COC match samples: Y or N
Broken Container: Y or N
COC seal intact: Y or N
Other problems: Y or N
WSDOT contacted: Y or N
Date contacted:

Cooler Temperature at receipt: ____ C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA19006 CLIENT: Amec PROJECT: Plattsburgh AFB

DATE/TIME RECEIVED: 10-09-14 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: _____

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8061 7458 4056

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [✓] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

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

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE [signature] 10.09.14 REVIEWER SIGNATURE/DATE [signature] 10-9-14

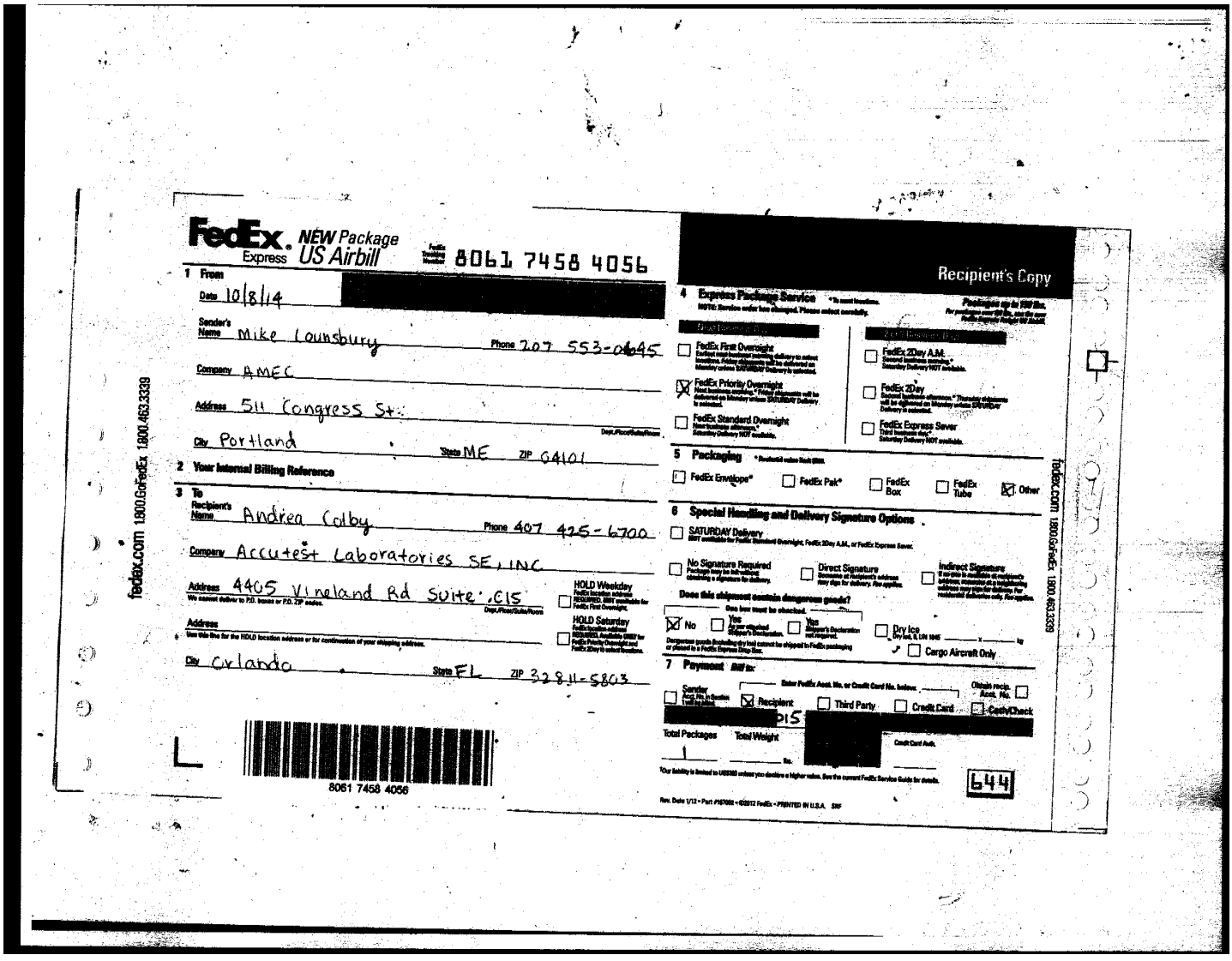
RS 04/14

receipt confirmation 041514.xls

5.1 5

FA19006: Chain of Custody

Page 4 of 5



FedEx. NEW Package Express US Airbill

8061 7458 4056

Recipient's Copy

1 From

Date 10/8/14

Sender's Name Mike Lounsbury Phone 207 553-0645

Company AMEC

Address 511 Congress St.

City Portland State ME ZIP 04101

2 Your Internal Billing Reference

3 To

Recipient's Name Andrea Colby Phone 407 425-6700

Company Accutest Laboratories SE, INC

Address 4405 Vineland Rd Suite C15

HOLD Weekday

HOLD Saturday

City Orlando State FL ZIP 32811-5803

4 Express Package Service

FedEx First Overnight

FedEx Priority Overnight

FedEx Standard Overnight

FedEx 2Day A.M.

FedEx 2Day

FedEx Express Saver

5 Packaging

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery

No Signature Required Direct Signature Indirect Signature

Does this shipment contain dangerous goods?

No Yes Yes

Dry Ice

Cargo Aircraft Only

7 Payment

Sender Recipient Third Party Credit Card Cash/Check

Total Packages Total Weight

644

8061 7458 4056

fedex.com 1800.GoFedEx 1800.463.3339

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53509-MB	Q7549.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-1, FA19006-13, FA19006-14, FA19006-25

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	95%	70-130%

Method Blank Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-MB	Q7654.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-2, FA19006-3, FA19006-4, FA19006-5, FA19006-6, FA19006-7, FA19006-8, FA19006-9, FA19006-10, FA19006-11

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	88%	70-130%
	13C2-PFDA	90%	70-130%

Method Blank Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-MB	Q7677.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-2, FA19006-3, FA19006-4, FA19006-5, FA19006-6, FA19006-7, FA19006-8, FA19006-9, FA19006-10, FA19006-11

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	90%	70-130%
	13C2-PFDA	113%	70-130%

Method Blank Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53513-MB	Q7698.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-12, FA19006-15, FA19006-16, FA19006-17, FA19006-18, FA19006-19, FA19006-20, FA19006-21, FA19006-22, FA19006-23, FA19006-24, FA19006-26, FA19006-27, FA19006-28, FA19006-29, FA19006-30, FA19006-31, FA19006-32, FA19006-33, FA19006-34

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	79%	70-130%
	13C2-PFDA	88%	70-130%

Method Blank Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53623-MB	Q7763.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-28

CAS No.	Compound	Result	RL	MDL	Units	Q

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	86%	70-130%
	13C2-PFDA	94%	70-130%

Blank Spike Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53509-BS	Q7548.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-1, FA19006-13, FA19006-14, FA19006-25

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.138	86	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.162	101	70-130
375-95-1	Perfluorononanoic acid	0.16	0.183	114	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.162	101	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.168	105	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.157	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	130%	70-130%
	13C2-PFDA	116%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-BS	Q7653.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-2, FA19006-3, FA19006-4, FA19006-5, FA19006-6, FA19006-7, FA19006-8, FA19006-9, FA19006-10, FA19006-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	70.6	71	70-130
335-67-1	Perfluorooctanoic acid	100	80.1	80	70-130
375-95-1	Perfluorononanoic acid	100	97.6	98	70-130
375-73-5	Perfluorobutanesulfonic acid	100	78.7	79	70-130
355-46-4	Perfluorohexanesulfonic acid	100	75.1	75	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	82.7	83	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	79%	70-130%
	13C2-PFDA	79%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-BS	Q7676.D	1	10/21/14	NAF	10/15/14	OP53512	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-2, FA19006-3, FA19006-4, FA19006-5, FA19006-6, FA19006-7, FA19006-8, FA19006-9, FA19006-10, FA19006-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	70.1	70	70-130
335-67-1	Perfluorooctanoic acid	100	81.5	82	70-130
375-95-1	Perfluorononanoic acid	100	86.1	86	70-130
375-73-5	Perfluorobutanesulfonic acid	100	72.6	73	70-130
355-46-4	Perfluorohexanesulfonic acid	100	81.9	82	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	75.9	76	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	84%	70-130%
	13C2-PFDA	105%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53513-BS	Q7697.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-12, FA19006-15, FA19006-16, FA19006-17, FA19006-18, FA19006-19, FA19006-20, FA19006-21, FA19006-22, FA19006-23, FA19006-24, FA19006-26, FA19006-27, FA19006-28, FA19006-29, FA19006-30, FA19006-31, FA19006-32, FA19006-33, FA19006-34

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	74.3	74	70-130
335-67-1	Perfluorooctanoic acid	100	86.6	87	70-130
375-95-1	Perfluorononanoic acid	100	99.1	99	70-130
375-73-5	Perfluorobutanesulfonic acid	100	84.3	84	70-130
355-46-4	Perfluorohexanesulfonic acid	100	93.0	93	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	85.6	86	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	76%	70-130%
	13C2-PFDA	84%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53623-BS	Q7762.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-28

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	85%	70-130%
	13C2-PFDA	95%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53509-MS	Q7551.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254
OP53509-MSD	Q7552.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254
FA19002-1	Q7550.D	1	10/16/14	NAF	10/14/14	OP53509	SQ254

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-1, FA19006-13, FA19006-14, FA19006-25

CAS No.	Compound	FA19002-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.0882		0.333	0.365	83	0.333	0.366	83	0	70-130/30
335-67-1	Perfluorooctanoic acid	0.169		0.333	0.529	108	0.333	0.533	109	1	70-130/30
375-95-1	Perfluorononanoic acid	0.020 U		0.333	0.427	128	0.333	0.408	122	5	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.296		0.333	0.645	105	0.333	0.655	108	2	70-130/30
355-46-4	Perfluorohexanesulfonic acid	1.22	E	0.333	1.81	177* [a]	0.333	1.85	189* [a]	2	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.0406		0.333	0.350	93	0.333	0.322	84	8	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA19002-1	Limits
	13C2-PFHxA	96%	94%	99%	70-130%
	13C2-PFDA	85%	77%	89%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53512-MS	Q7656.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
OP53512-MSD	Q7657.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257
FA18988-45	Q7655.D	1	10/20/14	NAF	10/15/14	OP53512	SQ257

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-2, FA19006-3, FA19006-4, FA19006-5, FA19006-6, FA19006-7, FA19006-8, FA19006-9, FA19006-10, FA19006-11

CAS No.	Compound	FA18988-45 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	15 U		118	87.2	74	111	82.4	74	6	70-130/30
335-67-1	Perfluorooctanoic acid	30 U		118	103	87	111	95.1	86	8	70-130/30
375-95-1	Perfluorononanoic acid	15 U		118	122	103	111	114	103	7	70-130/30
375-73-5	Perfluorobutanesulfonic acid	15 U		118	99.8	84	111	92.1	83	8	70-130/30
355-46-4	Perfluorohexanesulfonic acid	15 U		118	112	95	111	104	94	7	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	15 U		118	105	89	111	97.4	88	8	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18988-45	Limits
	13C2-PFHxA	84%	83%	83%	70-130%
	13C2-PFDA	83%	82%	88%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53513-MS	Q7700.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
OP53513-MSD	Q7701.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258
FA19006-12	Q7699.D	1	10/21/14	NAF	10/15/14	OP53513	SQ258

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-12, FA19006-15, FA19006-16, FA19006-17, FA19006-18, FA19006-19, FA19006-20, FA19006-21, FA19006-22, FA19006-23, FA19006-24, FA19006-26, FA19006-27, FA19006-28, FA19006-29, FA19006-30, FA19006-31, FA19006-32, FA19006-33, FA19006-34

CAS No.	Compound	FA19006-12 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	12 U		122	86.3	71	105	75.3	72	14	70-130/30
335-67-1	Perfluorooctanoic acid	25 U		122	101	83	105	88.3	84	13	70-130/30
375-95-1	Perfluorononanoic acid	12 U		122	116	95	105	102	97	13	70-130/30
375-73-5	Perfluorobutanesulfonic acid	12 U		122	97.8	80	105	85.6	82	13	70-130/30
355-46-4	Perfluorohexanesulfonic acid	12 U		122	108	89	105	93.9	89	14	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	12 U		122	105	86	105	90.3	86	15	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA19006-12	Limits
	13C2-PFHxA	72%	74%	76%	70-130%
	13C2-PFDA	80%	81%	87%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53623-MS	Q7766.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260
OP53623-MSD	Q7767.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260
FA19006-28 [a]	Q7765.D	1	10/23/14	NAF	10/23/14	OP53623	SQ260

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA19006-28

CAS No.	Compound	FA19006-28 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD

CAS No.	Surrogate Recoveries	MS	MSD	FA19006-28	Limits
	13C2-PFHxA	70%	69%*	71%	70-130%
	13C2-PFDA	74%	75%	79%	70-130%

(a) Confirmation run for surrogates.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ254-CC234	**Injection Date:**	10/16/14
Lab File ID:	Q7546.D	**Injection Time:**	16:27
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	27223	5.86	13919	6.43	22055	9.60
Upper Limit [c]	57426	6.86	22568	7.43	39822	10.60
Lower Limit [d]	19142	4.86	7523	5.43	13274	8.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53509-BS	27787	5.86	13506	6.43	21374	9.58
OP53509-MB	31102	5.86	14974	6.43	22929	9.60
FA19002-1	26156	5.86	14397	6.43	21793	9.58
OP53509-MS	28742	5.86	14821	6.43	23195	9.60
OP53509-MSD	27889	5.86	14334	6.43	22700	9.60
FA19006-1	29075	5.86	14173	6.44	21660	9.58
FA19006-13	29186	5.87	14257	6.44	21338	9.58
FA19006-14	29493	5.87	14965	6.44	21933	9.60
FA19006-25	29457	5.87	14673	6.46	21630	9.61
SQ254-ECC234	29219	5.87	14858	6.44	22848	9.62

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ257-CC234	**Injection Date:**	10/20/14
Lab File ID:	Q7647.D	**Injection Time:**	14:45
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	36202	5.86	15461	6.44	23377	9.65
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.65
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	26870	5.85	12600	6.43	22318	9.53
ZZZZZZ	37116	5.86	15489	6.44	25134	9.53
ZZZZZZ	34364	5.86	13911	6.43	23461	9.52
ZZZZZZ	39025	5.86	15524	6.43	25751	9.53
OP53512-BS	37966	5.86	15345	6.44	25471	9.53
OP53512-MB	38449	5.86	14973	6.44	24813	9.55
FA18988-45	39198	5.87	15805	6.44	25429	9.55
OP53512-MS	37068	5.87	14998	6.44	25074	9.56
OP53512-MSD	37448	5.87	15153	6.44	25227	9.56

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ258-CC234	**Injection Date:**	10/21/14
Lab File ID:	Q7675.D	**Injection Time:**	10:27
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	34542	5.98	16462	6.59	25658	9.79
Upper Limit [c]	57426	6.98	22568	7.59	39822	10.79
Lower Limit [d]	19142	4.98	7523	5.59	13274	8.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53512-BS	43932	6.00	21161	6.59	28071	9.79
OP53512-MB	44187	6.00	19629	6.59	26569	9.80
FA19006-7	37191	5.98	15776	6.59	23686	9.79
FA19006-8	37823	5.98	15127	6.58	24301	9.80
FA19006-9	37797	5.98	15800	6.58	24505	9.79

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ258-CC234	**Injection Date:**	10/21/14
Lab File ID:	Q7687.D	**Injection Time:**	15:54
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	36408	5.85	14961	6.42	19930	9.42
Upper Limit [c]	57426	6.85	22568	7.42	39822	10.42
Lower Limit [d]	19142	4.85	7523	5.42	13274	8.42

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA19006-3	38378	5.85	14773	6.43	22165	9.47
FA19006-4	39016	5.86	14678	6.43	22724	9.46
FA19006-10	39921	5.86	15319	6.43	23232	9.47
FA19006-11	40553	5.86	15580	6.43	24024	9.48
FA19006-5	40098	5.86	15639	6.44	23549	9.48
FA19006-6	41255	5.86	15963	6.44	23989	9.48

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ258-CC234	**Injection Date:**	10/21/14
Lab File ID:	Q7695.D	**Injection Time:**	18:30
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	40187	5.86	16003	6.44	24846	9.47
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.47
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.47

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53513-BS	41953	5.86	16573	6.44	25331	9.50
OP53513-MB	43048	5.87	16643	6.44	25657	9.50
FA19006-12	40649	5.87	15897	6.44	24758	9.50
OP53513-MS	41736	5.87	16360	6.44	25406	9.48
OP53513-MSD	41228	5.87	16133	6.44	25465	9.50
FA19006-15	43105	5.87	16550	6.44	28658	9.50
FA19006-16	42986	5.87	16440	6.44	27791	9.50
FA19006-17	42736	5.87	16605	6.44	27313	9.50

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ258-CC234	**Injection Date:**	10/21/14
Lab File ID:	Q7706.D	**Injection Time:**	22:02
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	41395	5.87	16668	6.44	26754	9.50
Upper Limit [c]	57426	6.87	22568	7.44	39822	10.50
Lower Limit [d]	19142	4.87	7523	5.44	13274	8.50

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA19006-19	45706	5.87	17820	6.46	31107	9.51
FA19006-20	43500	5.87	16629	6.46	27628	9.51
FA19006-21	44120	5.87	17115	6.46	27244	9.50
FA19006-22	44665	5.87	17566	6.46	27052	9.51
FA19006-23	46590	5.87	18084	6.46	27575	9.51
FA19006-24	43584	5.87	16948	6.46	26214	9.52
FA19006-26	44647	5.87	17374	6.46	27517	9.51
FA19006-27	43969	5.87	16870	6.46	26671	9.51
FA19006-28 [e]	41003	5.87	16090	6.46	24934	9.52
FA19006-29 [e]	43880	5.87	17283	6.46	27202	9.51

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
(e) Sample re-extracted beyond hold time; reported results confirmed.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ258-CC234	**Injection Date:**	10/22/14
Lab File ID:	Q7718.D	**Injection Time:**	01:53
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	45015	5.87	18440	6.46	28195	9.52
Upper Limit [c]	57426	6.87	22568	7.46	39822	10.52
Lower Limit [d]	19142	4.87	7523	5.46	13274	8.52

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA19006-32	41272	5.88	16181	6.46	25253	9.52
FA19006-33	41072	5.88	16204	6.46	24391	9.52
FA19006-34	40964	5.88	16173	6.46	24887	9.53

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ259-CC234	**Injection Date:**	10/22/14
Lab File ID:	Q7738.D	**Injection Time:**	10:43
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	39264	5.86	15689	6.44	23783	9.46
Upper Limit [c]	57426	6.86	22568	7.44	39822	10.46
Lower Limit [d]	19142	4.86	7523	5.44	13274	8.46

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA19006-18 [e]	47223	5.86	16266	6.43	28051	9.45
FA19006-30 [e]	44481	5.86	17378	6.43	30690	9.46
FA19006-31 [e]	41008	5.86	15756	6.43	26648	9.46
ZZZZZZ	40526	5.86	15686	6.43	25934	9.45
ZZZZZZ	41306	5.86	15225	6.43	24945	9.46
ZZZZZZ	41921	5.86	15273	6.43	25725	9.45
ZZZZZZ	42615	5.85	15117	6.42	24801	9.45
ZZZZZZ	42069	5.85	15135	6.42	24716	9.45

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
(e) Sample re-extracted beyond hold time; reported results confirmed.

Semivolatile Internal Standard Area Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ260-CC234	**Injection Date:**	10/23/14
Lab File ID:	Q7761.D	**Injection Time:**	10:30
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	34966	5.90	16024	6.48	24317	9.65
Upper Limit [c]	57426	6.90	22568	7.48	39822	10.65
Lower Limit [d]	19142	4.90	7523	5.48	13274	8.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53623-BS	42442	5.90	17802	6.49	26078	9.65
OP53623-MB	45900	5.90	18699	6.49	27061	9.65
FA19006-18 [e]	46967	5.90	19115	6.49	33459	9.65
FA19006-28 [e]	45551	5.90	18298	6.48	29492	9.63
OP53623-MS	44814	5.90	18070	6.48	28050	9.63
OP53623-MSD	44438	5.90	17821	6.48	27864	9.63
FA19006-29 [f]	45944	5.88	18165	6.48	28139	9.63
FA19006-30 [f]	45896	5.88	17985	6.47	27902	9.63
FA19006-31 [f]	46240	5.88	17792	6.47	28000	9.61
FA19006-2	45390	5.88	17459	6.47	28210	9.62

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
(e) Confirmation run for surrogates.
(f) Confirmation run for surrogate recoveries.

Semivolatile Surrogate Recovery Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA19006-1	Q7553.D	102	96
FA19006-13	Q7554.D	105	97
FA19006-14	Q7555.D	101	96
FA19006-25	Q7556.D	103	97
OP53509-BS	Q7548.D	130	116
OP53509-MB	Q7549.D	109	95
OP53509-MS	Q7551.D	96	85
OP53509-MSD	Q7552.D	94	77

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

Semivolatile Surrogate Recovery Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA19006-2	Q7771.D	81	92
FA19006-3	Q7689.D	81	91
FA19006-4	Q7690.D	82	92
FA19006-5	Q7693.D	79	87
FA19006-6	Q7694.D	80	88
FA19006-7	Q7683.D	87	108
FA19006-8	Q7684.D	82	102
FA19006-9	Q7685.D	84	102
FA19006-10	Q7691.D	79	90
FA19006-11	Q7692.D	78	87
FA19006-12	Q7699.D	76	87
FA19006-15	Q7702.D	72	83
FA19006-16	Q7703.D	74	81
FA19006-17	Q7704.D	77	84
FA19006-18	Q7764.D	83	76
FA19006-18	Q7740.D	69* [a]	78
FA19006-19	Q7708.D	75	80
FA19006-20	Q7709.D	73	85
FA19006-21	Q7710.D	80	86
FA19006-22	Q7711.D	76	84
FA19006-23	Q7712.D	78	85
FA19006-24	Q7713.D	75	85
FA19006-26	Q7714.D	73	81
FA19006-27	Q7715.D	74	81
FA19006-28	Q7765.D	71	79
FA19006-28	Q7716.D	64* [a]	70
FA19006-29	Q7768.D	70	79
FA19006-29	Q7717.D	64* [a]	70
FA19006-30	Q7769.D	53*	62*
FA19006-30	Q7741.D	52* [b]	51* [b]
FA19006-31	Q7742.D	52*	51*
FA19006-31	Q7770.D	79	88
FA19006-32	Q7721.D	74	83
FA19006-33	Q7722.D	76	88
FA19006-34	Q7723.D	78	87
OP53512-BS	Q7653.D	79	79
OP53512-BS	Q7676.D	84	105
OP53512-MB	Q7654.D	88	90
OP53512-MB	Q7677.D	90	113
OP53512-MS	Q7656.D	84	83

Semivolatile Surrogate Recovery Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
OP53512-MSD	Q7657.D	83	82
OP53513-BS	Q7697.D	76	84
OP53513-MB	Q7698.D	79	88
OP53513-MS	Q7700.D	72	80
OP53513-MSD	Q7701.D	74	81
OP53623-BS	Q7762.D	85	95
OP53623-MB	Q7763.D	86	94
OP53623-MS	Q7766.D	70	74
OP53623-MSD	Q7767.D	69*	75

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

(a) Outside control limits.
(b) Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

Initial Calibration Summary

Job Number: FA19006 **Sample:** SQ234-ICC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6939.D
Project: Plattsburgh AFB; Plattsburgh, NY

Initial Calibration ReSponse Factors - D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID : Calibration File
1 : D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2 : D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3 : D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4 : D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5 : D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6 : D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7 : D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Compound	1	2	3	4	5	6	7	AvgRF	%RSD	r^2
2) 13C2-PFDoDA	ISTD									
1) 13C2-PFDA	1.4694	1.2705	1.3641	1.3573	1.2782	1.1995	1.1677	1.3010	8.002	0.9925
8) PFDA	1.3529	1.1705	1.2774	1.2682	1.2016	1.1239	1.0824	1.2110	7.811	0.9913
9) PFDoDA	0.9528	0.9350	0.8811	0.8914	0.8903	0.8623	0.8657	0.8969	3.827	0.9994
10) PFDS	0.2240	0.2180	0.2018	0.2025	0.1985	0.1920	0.1929	0.2043	5.996	0.9989
19) PFTeDA	0.7532	0.6581	0.5739	0.5913	0.5950	0.5845	0.5932	0.6213	10.333	0.9994
20) PFTrDA	0.8594	0.8431	0.7924	0.7963	0.7967	0.7777	0.7789	0.8063	3.964	0.9999
21) PFUnDA	1.4969	1.2243	1.1198	1.0728	1.0513	1.0110	1.0658	1.1489	14.603	0.9948
4) 13C2-PFOA	ISTD									
3) 13C2-PFHxA	0.3285	0.3294	0.3113	0.3056	0.3013	0.2929	0.2943	0.3090	4.856	0.9992
6) PFBA	0.2472	0.2443	0.2374	0.2319	0.2354	0.2301	0.2321	0.2369	2.771	0.9998
11) PFHpA	0.4292	0.3812	0.3486	0.3311	0.3247	0.3126	0.3091	0.3481	12.464	0.9994
13) PFHxA	0.3782	0.3737	0.3488	0.3465	0.3428	0.3331	0.3339	0.3510	5.150	0.9992
15) PFNA	0.5906	0.5169	0.4639	0.4647	0.4599	0.4509	0.4500	0.4853	10.660	0.9996
16) PFOA	1.3992	1.1606	1.0285	1.0005	0.9828	0.9625	0.9647	1.0713	14.922	0.9959
18) PFPeA	0.1233	0.1212	0.1155	0.1139	0.1149	0.1115	0.1146	0.1164	3.645	0.9995
5) 13C4-PFOS	ISTD									
7) PFBS	0.4070	0.3735	0.3399	0.3254	0.3260	0.3064	0.3165	0.3421	10.450	0.9975
12) PFHpS	0.6380	0.6341	0.6144	0.5989	0.6054	0.5816	0.5927	0.6093	3.437	0.9993
14) PFHxS	0.6360	0.5636	0.5422	0.5072	0.5081	0.4775	0.4990	0.5334	10.027	0.9974
17) PFOS	1.3645	1.1081	1.0077	0.9890	0.9834	0.9433	0.9543	1.0500	14.167	0.9965

*(value) - Average RF below (value)

Initial Calibration Verification

Job Number: FA19006 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6944.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6944
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	# -100.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	# -100.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.367	1.8	101.8
PFBS	20.000	21.501	7.5	107.5
PFDA	20.000	21.272	6.4	106.4
PFDoDA	20.000	21.331	6.7	106.7
PFDS	20.000	21.521	7.6	107.6
PFHpA	20.000	20.021	0.1	100.1
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	20.765	3.8	103.8
PFHxS	20.000	21.704	8.5	108.5
PFNA	20.000	20.123	0.6	100.6
PFOA	20.000	20.065	0.3	100.3
PFOS	20.000	20.717	3.6	103.6
PFPeA	20.000	20.410	2.1	102.1
PFTeDA	20.000	22.398	12.0	112.0
PFTrDA	20.000	20.605	3.0	103.0
PFUnDA	20.000	20.271	1.4	101.4

CC Criteria: +/- 25%

Initial Calibration Verification

Job Number: FA19006 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6945.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6945
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	0.000	0.0	0.0
PFBS	20.000	24.861	24.3	124.3
PFDA	20.000	0.000	0.0	0.0
PFDoDA	20.000	0.000	0.0	0.0
PFDS	20.000	0.000	0.0	0.0
PFHpA	20.000	18.993	-5.0	95.0
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	0.000	0.0	0.0
PFHxS	20.000	23.899	19.5	119.5
PFNA	20.000	21.584	7.9	107.9
PFOA	20.000	19.090	-4.5	95.5
PFOS	20.000	20.549	2.7	102.7
PFPeA	20.000	0.000	0.0	0.0
PFTeDA	20.000	0.000	0.0	0.0
PFTrDA	20.000	0.000	0.0	0.0
PFUnDA	20.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ254-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7546.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1016_PFC_SQ254\sq254.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7546
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.578	-2.1	97.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.643	3.2	103.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.125	10.6	110.6
PFBS	20.000	20.698	3.5	103.5
PFDA	20.000	20.132	0.7	100.7
PFDoDA	20.000	23.646	18.2	118.2
PFDS	20.000	28.967	# 44.8	144.8
PFHpA	20.000	21.124	5.6	105.6
PFHpS	20.000	21.646	8.2	108.2
PFHxA	20.000	20.415	2.1	102.1
PFHxS	20.000	21.101	5.5	105.5
PFNA	20.000	25.386	# 26.9	126.9
PFOA	20.000	23.500	17.5	117.5
PFOS	20.000	22.398	12.0	112.0
PFPeA	20.000	21.521	7.6	107.6
PFTeDA	20.000	23.089	15.4	115.4
PFTrDA	20.000	26.519	# 32.6	132.6
PFUnDA	20.000	18.552	-7.2	92.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ254-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7557.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1016_PFC_SQ254\sq254.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7557
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.755	-1.2	98.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.580	-2.1	97.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.608	3.0	103.0
PFBS	20.000	18.957	-5.2	94.8
PFDA	20.000	17.935	-10.3	89.7
PFDoDA	20.000	23.806	19.0	119.0
PFDS	20.000	29.575	# 47.9	147.9
PFHpA	20.000	20.024	0.1	100.1
PFHpS	20.000	21.340	6.7	106.7
PFHxA	20.000	19.480	-2.6	97.4
PFHxS	20.000	20.939	4.7	104.7
PFNA	20.000	25.202	# 26.0	126.0
PFOA	20.000	23.455	17.3	117.3
PFOS	20.000	22.660	13.3	113.3
PFPeA	20.000	20.186	0.9	100.9
PFTeDA	20.000	23.023	15.1	115.1
PFTrDA	20.000	26.974	# 34.9	134.9
PFUnDA	20.000	18.851	-5.7	94.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ257-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7647.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1020_PFC_SQ257\SQ257.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7647
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.643	-6.8	93.2
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.924	-10.4	89.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.066	-19.7	80.3
PFBS	20.000	16.560	-17.2	82.8
PFDA	20.000	17.573	-12.1	87.9
PFDoDA	20.000	21.164	5.8	105.8
PFDS	20.000	25.121	# 25.6	125.6
PFHpA	20.000	18.702	-6.5	93.5
PFHpS	20.000	19.339	-3.3	96.7
PFHxA	20.000	17.977	-10.1	89.9
PFHxS	20.000	18.504	-7.5	92.5
PFNA	20.000	22.703	13.5	113.5
PFOA	20.000	20.324	1.6	101.6
PFOS	20.000	19.466	-2.7	97.3
PFPeA	20.000	17.602	-12.0	88.0
PFTeDA	20.000	20.132	0.7	100.7
PFTrDA	20.000	23.150	15.7	115.7
PFUnDA	20.000	16.979	-15.1	84.9

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ257-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7658.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1020_PFC_SQ257\SQ257.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7658
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.320	-8.4	91.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	17.129	-14.4	85.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.456	-22.7	77.3
PFBS	20.000	15.927	-20.4	79.6
PFDA	20.000	17.107	-14.5	85.5
PFDoDA	20.000	21.493	7.5	107.5
PFDS	20.000	24.762	23.8	123.8
PFHpA	20.000	18.388	-8.1	91.9
PFHpS	20.000	19.848	-0.8	99.2
PFHxA	20.000	16.892	-15.5	84.5
PFHxS	20.000	18.438	-7.8	92.2
PFNA	20.000	22.809	14.0	114.0
PFOA	20.000	20.421	2.1	102.1
PFOS	20.000	19.533	-2.3	97.7
PFPeA	20.000	16.360	-18.2	81.8
PFTeDA	20.000	20.398	2.0	102.0
PFTrDA	20.000	22.308	11.5	111.5
PFUnDA	20.000	17.874	-10.6	89.4

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7675.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7675
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.936	-10.3	89.7
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.713	-6.4	93.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.071	-14.6	85.4
PFBS	20.000	15.237	-23.8	76.2
PFDA	20.000	16.671	-16.6	83.4
PFDoDA	20.000	20.579	2.9	102.9
PFDS	20.000	24.433	22.2	122.2
PFHpA	20.000	18.707	-6.5	93.5
PFHpS	20.000	19.619	-1.9	98.1
PFHxA	20.000	18.754	-6.2	93.8
PFHxS	20.000	18.562	-7.2	92.8
PFNA	20.000	18.668	-6.7	93.3
PFOA	20.000	20.189	0.9	100.9
PFOS	20.000	18.729	-6.4	93.6
PFPeA	20.000	18.054	-9.7	90.3
PFTeDA	20.000	17.147	-14.3	85.7
PFTrDA	20.000	18.521	-7.4	92.6
PFUnDA	20.000	15.049	-24.8	75.2

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7687.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7687
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	20.753	3.8	103.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.099	-9.5	90.5
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.535	-12.3	87.7
PFBS	20.000	16.808	-16.0	84.0
PFDA	20.000	18.461	-7.7	92.3
PFDoDA	20.000	20.427	2.1	102.1
PFDS	20.000	29.592	# 48.0	148.0
PFHpA	20.000	17.598	-12.0	88.0
PFHpS	20.000	19.594	-2.0	98.0
PFHxA	20.000	17.984	-10.1	89.9
PFHxS	20.000	18.586	-7.1	92.9
PFNA	20.000	23.171	15.9	115.9
PFOA	20.000	20.074	0.4	100.4
PFOS	20.000	19.551	-2.2	97.8
PFPeA	20.000	17.719	-11.4	88.6
PFTeDA	20.000	16.165	-19.2	80.8
PFTrDA	20.000	25.968	# 29.8	129.8
PFUnDA	20.000	17.400	-13.0	87.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7695.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7695
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.087	-9.6	90.4
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.127	-19.4	80.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.078	-24.6	75.4
PFBS	20.000	16.398	-18.0	82.0
PFDA	20.000	16.692	-16.5	83.5
PFDoDA	20.000	19.395	-3.0	97.0
PFDS	20.000	25.719	# 28.6	128.6
PFHpA	20.000	17.778	-11.1	88.9
PFHpS	20.000	19.976	-0.1	99.9
PFHxA	20.000	16.263	-18.7	81.3
PFHxS	20.000	18.719	-6.4	93.6
PFNA	20.000	21.033	5.2	105.2
PFOA	20.000	20.024	0.1	100.1
PFOS	20.000	19.710	-1.4	98.6
PFPeA	20.000	15.821	-20.9	79.1
PFTeDA	20.000	19.191	-4.0	96.0
PFTrDA	20.000	22.491	12.5	112.5
PFUnDA	20.000	16.411	-17.9	82.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7706.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7706
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.523	-12.4	87.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.021	-19.9	80.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	14.315	# -28.4	71.6
PFBS	20.000	15.482	-22.6	77.4
PFDA	20.000	16.380	-18.1	81.9
PFDoDA	20.000	20.185	0.9	100.9
PFDS	20.000	24.925	24.6	124.6
PFHpA	20.000	17.482	-12.6	87.4
PFHpS	20.000	19.708	-1.5	98.5
PFHxA	20.000	15.923	-20.4	79.6
PFHxS	20.000	18.248	-8.8	91.2
PFNA	20.000	21.337	6.7	106.7
PFOA	20.000	19.867	-0.7	99.3
PFOS	20.000	19.552	-2.2	97.8
PFPeA	20.000	15.454	-22.7	77.3
PFTeDA	20.000	19.749	-1.3	98.7
PFTrDA	20.000	22.249	11.2	111.2
PFUnDA	20.000	15.455	-22.7	77.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7718.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7718
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.498	-12.5	87.5
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.014	-19.9	80.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	14.549	# -27.3	72.7
PFBS	20.000	15.697	-21.5	78.5
PFDA	20.000	16.381	-18.1	81.9
PFDoDA	20.000	20.601	3.0	103.0
PFDS	20.000	25.923	# 29.6	129.6
PFHpA	20.000	17.846	-10.8	89.2
PFHpS	20.000	19.748	-1.3	98.7
PFHxA	20.000	15.603	-22.0	78.0
PFHxS	20.000	18.586	-7.1	92.9
PFNA	20.000	21.010	5.0	105.0
PFOA	20.000	19.922	-0.4	99.6
PFOS	20.000	19.207	-4.0	96.0
PFPeA	20.000	16.127	-19.4	80.6
PFTeDA	20.000	19.177	-4.1	95.9
PFTrDA	20.000	21.910	9.5	109.5
PFUnDA	20.000	16.537	-17.3	82.7

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ258-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7725.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1021_PFC_SQ258\sq258.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7725
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.205	-9.0	91.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	15.795	-21.0	79.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.305	-23.5	76.5
PFBS	20.000	15.490	-22.6	77.4
PFDA	20.000	17.071	-14.6	85.4
PFDoDA	20.000	20.803	4.0	104.0
PFDS	20.000	26.907	# 34.5	134.5
PFHpA	20.000	17.304	-13.5	86.5
PFHpS	20.000	19.925	-0.4	99.6
PFHxA	20.000	15.784	-21.1	78.9
PFHxS	20.000	18.397	-8.0	92.0
PFNA	20.000	21.716	8.6	108.6
PFOA	20.000	20.186	0.9	100.9
PFOS	20.000	19.609	-2.0	98.0
PFPeA	20.000	15.772	-21.1	78.9
PFTeDA	20.000	19.929	-0.4	99.6
PFTrDA	20.000	22.927	14.6	114.6
PFUnDA	20.000	16.139	-19.3	80.7

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ259-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7738.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1022_PFC_SQ259\SQ259.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7738
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.740	-11.3	88.7
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.313	-18.4	81.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.015	-24.9	75.1
PFBS	20.000	16.233	-18.8	81.2
PFDA	20.000	16.428	-17.9	82.1
PFDoDA	20.000	18.661	-6.7	93.3
PFDS	20.000	26.794	# 34.0	134.0
PFHpA	20.000	17.631	-11.8	88.2
PFHpS	20.000	20.007	0.0	100.0
PFHxA	20.000	16.140	-19.3	80.7
PFHxS	20.000	18.735	-6.3	93.7
PFNA	20.000	21.848	9.2	109.2
PFOA	20.000	20.389	1.9	101.9
PFOS	20.000	19.737	-1.3	98.7
PFPeA	20.000	16.017	-19.9	80.1
PFTeDA	20.000	19.243	-3.8	96.2
PFTrDA	20.000	23.012	15.1	115.1
PFUnDA	20.000	15.464	-22.7	77.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ259-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7749.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1022_PFC_SQ259\SQ259.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7749
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.454	-17.7	82.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.448	-17.8	82.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.550	-22.2	77.8
PFBS	20.000	17.038	-14.8	85.2
PFDA	20.000	16.596	-17.0	83.0
PFDoDA	20.000	19.965	-0.2	99.8
PFDS	20.000	21.725	8.6	108.6
PFHpA	20.000	18.222	-8.9	91.1
PFHpS	20.000	20.299	1.5	101.5
PFHxA	20.000	16.459	-17.7	82.3
PFHxS	20.000	19.212	-3.9	96.1
PFNA	20.000	21.218	6.1	106.1
PFOA	20.000	20.105	0.5	100.5
PFOS	20.000	20.239	1.2	101.2
PFPeA	20.000	16.370	-18.1	81.9
PFTeDA	20.000	19.058	-4.7	95.3
PFTrDA	20.000	21.757	8.8	108.8
PFUnDA	20.000	14.758	# -26.2	73.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ260-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7761.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1023_PFC_SQ260\sq260.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7761
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.228	-13.9	86.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.458	-7.7	92.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	17.449	-12.8	87.2
PFBS	20.000	18.472	-7.6	92.4
PFDA	20.000	15.766	-21.2	78.8
PFDoDA	20.000	20.071	0.4	100.4
PFDS	20.000	24.329	21.6	121.6
PFHpA	20.000	19.873	-0.6	99.4
PFHpS	20.000	19.973	-0.1	99.9
PFHxA	20.000	18.365	-8.2	91.8
PFHxS	20.000	19.049	-4.8	95.2
PFNA	20.000	18.333	-8.3	91.7
PFOA	20.000	19.717	-1.4	98.6
PFOS	20.000	19.672	-1.6	98.4
PFPeA	20.000	18.998	-5.0	95.0
PFTeDA	20.000	21.008	5.0	105.0
PFTrDA	20.000	23.571	17.9	117.9
PFUnDA	20.000	16.145	-19.3	80.7

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA19006 **Sample:** SQ260-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7772.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1023_PFC_SQ260\sq260.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7772
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.757	-6.2	93.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	16.353	-18.2	81.8
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.128	-24.4	75.6
PFBS	20.000	16.525	-17.4	82.6
PFDA	20.000	20.441	2.2	102.2
PFDoDA	20.000	20.543	2.7	102.7
PFDS	20.000	23.452	17.3	117.3
PFHpA	20.000	18.709	-6.5	93.5
PFHpS	20.000	20.269	1.3	101.3
PFHxA	20.000	16.273	-18.6	81.4
PFHxS	20.000	18.705	-6.5	93.5
PFNA	20.000	20.961	4.8	104.8
PFOA	20.000	20.067	0.3	100.3
PFOS	20.000	19.923	-0.4	99.6
PFPeA	20.000	16.324	-18.4	81.6
PFTeDA	20.000	17.260	-13.7	86.3
PFTrDA	20.000	20.739	3.7	103.7
PFUnDA	20.000	16.226	-18.9	81.1

CC Criteria: +/- 25%

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA19006-2 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-063

Wet Weight (Total)	7.71	g
Tare Weight	1.03	g
Dry Weight (Total)	7.36	g
Solids, Percent	94.8	%

Sample: FA19006-3 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-064

Wet Weight (Total)	7.3	g
Tare Weight	1.01	g
Dry Weight (Total)	7.13	g
Solids, Percent	97.3	%

Sample: FA19006-4 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-065

Wet Weight (Total)	7.4	g
Tare Weight	1.03	g
Dry Weight (Total)	7.33	g
Solids, Percent	98.9	%

Sample: FA19006-5 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-066

Wet Weight (Total)	7.72	g
Tare Weight	1.01	g
Dry Weight (Total)	7.59	g
Solids, Percent	98.1	%

Sample: FA19006-6 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-067

Wet Weight (Total)	6.52	g
Tare Weight	1.06	g
Dry Weight (Total)	6.37	g
Solids, Percent	97.3	%

Sample: FA19006-7 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-068

Wet Weight (Total)	7.36	g
Tare Weight	1	g
Dry Weight (Total)	7.23	g
Solids, Percent	98	%

Percent Solids Raw Data Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA19006-8 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-069

Wet Weight (Total)	6.88	g
Tare Weight	1.01	g
Dry Weight (Total)	6.5	g
Solids, Percent	93.5	%

Sample: FA19006-9 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-081

Wet Weight (Total)	7.45	g
Tare Weight	1.04	g
Dry Weight (Total)	6.28	g
Solids, Percent	81.8	%

Sample: FA19006-10 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-082

Wet Weight (Total)	6.08	g
Tare Weight	1.02	g
Dry Weight (Total)	5.16	g
Solids, Percent	81.8	%

Sample: FA19006-11 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-083

Wet Weight (Total)	6.89	g
Tare Weight	.99	g
Dry Weight (Total)	5.72	g
Solids, Percent	80.2	%

Sample: FA19006-12 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-084

Wet Weight (Total)	6.87	g
Tare Weight	.99	g
Dry Weight (Total)	5.82	g
Solids, Percent	82.1	%

Sample: FA19006-15 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-042

Wet Weight (Total)	8.41	g
Tare Weight	1.03	g
Dry Weight (Total)	8.24	g
Solids, Percent	97.7	%

Percent Solids Raw Data Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA19006-16 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-043

Wet Weight (Total)	7.97	g
Tare Weight	1.04	g
Dry Weight (Total)	7.66	g
Solids, Percent	95.5	%

Sample: FA19006-17 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-044

Wet Weight (Total)	7.56	g
Tare Weight	1.01	g
Dry Weight (Total)	7.28	g
Solids, Percent	95.7	%

Sample: FA19006-18 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-045

Wet Weight (Total)	6.18	g
Tare Weight	1.01	g
Dry Weight (Total)	5.81	g
Solids, Percent	92.8	%

Sample: FA19006-19 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-046

Wet Weight (Total)	7.54	g
Tare Weight	1	g
Dry Weight (Total)	7.23	g
Solids, Percent	95.3	%

Sample: FA19006-20 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-047

Wet Weight (Total)	7.42	g
Tare Weight	1.03	g
Dry Weight (Total)	7.2	g
Solids, Percent	96.6	%

Sample: FA19006-21 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-048

Wet Weight (Total)	6.48	g
Tare Weight	1	g
Dry Weight (Total)	6.08	g
Solids, Percent	92.7	%

Percent Solids Raw Data Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA19006-22 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-049

Wet Weight (Total)	6.57	g
Tare Weight	1.01	g
Dry Weight (Total)	5.81	g
Solids, Percent	86.3	%

Sample: FA19006-23 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-070

Wet Weight (Total)	7.42	g
Tare Weight	1	g
Dry Weight (Total)	6.5	g
Solids, Percent	85.7	%

Sample: FA19006-24 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-071

Wet Weight (Total)	6.08	g
Tare Weight	1	g
Dry Weight (Total)	5.34	g
Solids, Percent	85.4	%

Sample: FA19006-26 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-021

Wet Weight (Total)	6.64	g
Tare Weight	1	g
Dry Weight (Total)	6.39	g
Solids, Percent	95.6	%

Sample: FA19006-27 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-022

Wet Weight (Total)	6.73	g
Tare Weight	1.02	g
Dry Weight (Total)	6.48	g
Solids, Percent	95.6	%

Sample: FA19006-28 **Analyzed:** 13-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SO-023

Wet Weight (Total)	7.88	g
Tare Weight	1.01	g
Dry Weight (Total)	7.75	g
Solids, Percent	98.1	%

Percent Solids Raw Data Summary

Job Number: FA19006
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA19006-29	**Analyzed:** 13-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SO-024			
Wet Weight (Total)	7.47	g	
Tare Weight	1.02	g	
Dry Weight (Total)	7.27	g	
Solids, Percent	96.9	%	
Sample: FA19006-30	**Analyzed:** 13-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SO-025			
Wet Weight (Total)	6.66	g	
Tare Weight	1.04	g	
Dry Weight (Total)	6.26	g	
Solids, Percent	92.9	%	
Sample: FA19006-31	**Analyzed:** 13-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SO-026			
Wet Weight (Total)	6.73	g	
Tare Weight	1.02	g	
Dry Weight (Total)	6.53	g	
Solids, Percent	96.5	%	
Sample: FA19006-32	**Analyzed:** 13-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SO-027			
Wet Weight (Total)	6.07	g	
Tare Weight	1.04	g	
Dry Weight (Total)	5.88	g	
Solids, Percent	96.2	%	
Sample: FA19006-33	**Analyzed:** 13-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SO-028			
Wet Weight (Total)	6.56	g	
Tare Weight	1.01	g	
Dry Weight (Total)	5.94	g	
Solids, Percent	88.8	%	
Sample: FA19006-34	**Analyzed:** 13-OCT-14 by JC		**Method:** SM19 2540G
ClientID: PLTSB-SO-029			
Wet Weight (Total)	8.5	g	
Tare Weight	1.06	g	
Dry Weight (Total)	7.27	g	
Solids, Percent	83.5	%	

Southeast
ACCUTEST LABORATORIES

Reissue #1
10/27/14



Technical Report for

AMEC Environment & Infrastructure, Inc.

Plattsburgh AFB; Plattsburgh, NY

775290177

Accutest Job Number: FA18740

Sampling Date: 09/29/14

Report to:

AMEC Environment & Infrastructure, Inc.

marie.bevier@amec.com

ATTN: Marie Bevier

Total number of pages in report: **48**

NELAP ACCREDITED TNI LABORATORY

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

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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October 23, 2014

Ms. Marie Bevier
AMEC Environment & Infrastructure
7376 SW Durham Rd.
Portland, OR 97224

RE: Accutest job FA18740 Reissue

Dear Ms. Bevier,

The final report for job number FA18740 has been edited to reflect the following corrections. These edits have been incorporated into the revised report.

A sample ID table has been added to the report.

Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE

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Sample Summary

AMEC Environment & Infrastructure, Inc.

Job No: FA18740

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18740-1	09/29/14	11:33	MY	09/30/14	SO	Sediment	PLTSB-SD-007
FA18740-2	09/29/14	14:20	MY	09/30/14	SO	Sediment	PLTSB-SD-008
FA18740-3	09/29/14	13:44	MY	09/30/14	SO	Sediment	PLTSB-SD-009
FA18740-4	09/29/14	10:15	MY	09/30/14	SO	Sediment	PLTSB-SD-010
FA18740-5	09/29/14	10:55	MY	09/30/14	SO	Sediment	PLTSB-SD-011
FA18740-6	09/29/14	15:00	MY	09/30/14	AQ	Surface Water	PLTSB-SW-006
FA18740-7	09/29/14	11:33	MY	09/30/14	AQ	Surface Water	PLTSB-SW-007
FA18740-8	09/29/14	14:20	MY	09/30/14	AQ	Surface Water	PLTSB-SW-008
FA18740-9	09/29/14	13:44	MY	09/30/14	AQ	Surface Water	PLTSB-SW-009
FA18740-10	09/29/14	10:15	MY	09/30/14	AQ	Surface Water	PLTSB-SW-010
FA18740-11	09/29/14	10:55	MY	09/30/14	AQ	Surface Water	PLTSB-SW-011

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc. **Job No:** FA18740

Site: Plattsburgh AFB; Plattsburgh, NY **Report Date** 10/10/2014 4:16:17

11 Samples were collected on 09/29/2014 and were received at Accutest on 09/30/2014 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA18740. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP53433

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18740-6MS, FA18740-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits. Probable cause is due to matrix interference. For method performance in clean matrix refer to Blank Spike.

Sample(s) OP53433-MS have surrogates outside control limits. Probable cause is due to matrix interference.

OP53433-MS for 13C2-PFHxA: Outside control limits.

OP53433-MS for 13C2-PFDA: Outside control limits.

Matrix: SO **Batch ID:** OP53432

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18803-4MS, FA18803-4MSD were used as the QC samples indicated.

Sample(s) OP53433-MS have surrogates outside control limits. Probable cause is due to matrix interference.

Wet Chemistry By Method SM19 2540G

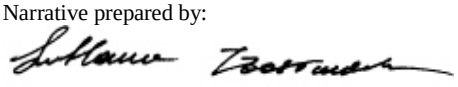
Matrix: SO **Batch ID:** GN63577

Sample(s) FA18803-4DUP were used as the QC samples for Solids, Percent.

RPD(s) for Duplicate for Solids, Percent are outside control limits for sample GN63577-D1. Probable cause is due to sample non-homogeneity.

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

Narrative prepared by:



Svetlana Izosimova, QA Officer

Date: October 10, 2014

Sample Location	Sample ID	Sample Date	Sample Depth	Lab ID
IA-NORTH	PLTSB-SD-007	09/29/14		FA18740-1
IA-NORTH	PLTSB-SW-007	09/29/14		FA18740-7
POND INLET	PLTSB-SD-008	09/29/14		FA18740-2
POND INLET	PLTSB-SW-008	09/29/14		FA18740-8
POND OUTFALL	PLTSB-SD-009	09/29/14		FA18741-3
POND OUTFALL	PLTSB-SW-009	09/29/14		FA18740-9
SW-MNA-1	PLTSB-SD-010	09/29/14		FA18740-4
SW-MNA-1	PLTSB-SW-010	09/29/14		FA18740-10
SW-MNA-3A	PLTSB-SD-011	09/29/14		FA18740-5
SW-MNA-3A	PLTSB-SW-011	09/29/14		FA18740-11

Summary of Hits

Job Number: FA18740
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 09/29/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18740-1	**PLTSB-SD-007**					
No hits reported in this sample.						
FA18740-2	**PLTSB-SD-008**					
No hits reported in this sample.						
FA18740-3	**PLTSB-SD-009**					
Perfluorooctanesulfonic acid		24.3	20	16	ug/kg	EPA 537 MOD
FA18740-4	**PLTSB-SD-010**					
No hits reported in this sample.						
FA18740-5	**PLTSB-SD-011**					
No hits reported in this sample.						
FA18740-6	**PLTSB-SW-006**					
Perfluoroheptanoic acid		0.0397	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0825	0.040	0.032	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0111 J	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.286	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.520	0.040	0.032	ug/l	EPA 537 MOD
FA18740-7	**PLTSB-SW-007**					
Perfluoroheptanoic acid		0.0247	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0395 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.0866	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.165	0.020	0.016	ug/l	EPA 537 MOD
FA18740-8	**PLTSB-SW-008**					
Perfluoroheptanoic acid		0.0579	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.117	0.042	0.033	ug/l	EPA 537 MOD
Perfluorononanoic acid		0.0137 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0141 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.403	0.21	0.17	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		1.36	0.21	0.17	ug/l	EPA 537 MOD

Summary of Hits

Job Number: FA18740
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 09/29/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18740-9	**PLTSB-SW-009**					
Perfluoroheptanoic acid		0.0582	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.106	0.042	0.033	ug/l	EPA 537 MOD
Perfluorononanoic acid		0.0108 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0144 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.412	0.10	0.083	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.949	0.10	0.083	ug/l	EPA 537 MOD
FA18740-10	**PLTSB-SW-010**					
Perfluoroheptanoic acid		0.0469	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0899	0.040	0.032	ug/l	EPA 537 MOD
Perfluorononanoic acid		0.0128 J	0.020	0.016	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0194 J	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.321	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		1.08	0.10	0.080	ug/l	EPA 537 MOD
FA18740-11	**PLTSB-SW-011**					
Perfluoroheptanoic acid		0.0349	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0508	0.042	0.033	ug/l	EPA 537 MOD
Perfluorononanoic acid		0.0101 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.136	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.366	0.042	0.033	ug/l	EPA 537 MOD

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: PLTSB-SD-007
Lab Sample ID: FA18740-1
Matrix: SO - Sediment
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/29/14
Date Received: 09/30/14
Percent Solids: 77.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7285.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.16 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	14	11	5.6	ug/kg	
335-67-1	Perfluorooctanoic acid	22 U	28	22	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	14	11	6.4	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	14	11	5.6	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	14	11	5.6	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	14	11	5.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	104%		70-130%
	13C2-PFDA	101%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-SD-008
Lab Sample ID: FA18740-2
Matrix: SO - Sediment
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/29/14
Date Received: 09/30/14
Percent Solids: 79.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7286.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.16 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	14	11	5.4	ug/kg	
335-67-1	Perfluorooctanoic acid	22 U	27	22	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	14	11	6.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	14	11	5.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	14	11	5.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	14	11	5.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	101%		70-130%
	13C2-PFDA	95%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: PLTSB-SD-009
Lab Sample ID: FA18740-3
Matrix: SO - Sediment
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/29/14
Date Received: 09/30/14
Percent Solids: 55.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7287.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.14 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	16 U	20	16	8.0	ug/kg	
335-67-1	Perfluorooctanoic acid	32 U	40	32	16	ug/kg	
375-95-1	Perfluorononanoic acid	16 U	20	16	9.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	16 U	20	16	8.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	16 U	20	16	8.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	24.3	20	16	8.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	103%		70-130%
	13C2-PFDA	96%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SD-010		
Lab Sample ID:	FA18740-4	**Date Sampled:**	09/29/14
Matrix:	SO - Sediment	**Date Received:**	09/30/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	76.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7288.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.21 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.4	ug/kg	
335-67-1	Perfluorooctanoic acid	22 U	27	22	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	13	11	5.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	13	11	5.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	96%		70-130%
	13C2-PFDA	90%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SD-011		
Lab Sample ID:	FA18740-5	**Date Sampled:**	09/29/14
Matrix:	SO - Sediment	**Date Received:**	09/30/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	78.2
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7289.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.07 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	12 U	15	12	6.0	ug/kg	
335-67-1	Perfluorooctanoic acid	24 U	30	24	12	ug/kg	
375-95-1	Perfluorononanoic acid	12 U	15	12	6.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	12 U	15	12	6.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	12 U	15	12	6.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	12 U	15	12	6.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	101%		70-130%
	13C2-PFDA	92%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SW-006		
Lab Sample ID:	FA18740-6	**Date Sampled:**	09/29/14
Matrix:	AQ - Surface Water	**Date Received:**	09/30/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7313.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
Run #2	Q7323.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0397	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.0825	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0111	0.020	0.016	0.0080	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.286	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.520 [a]	0.040	0.032	0.016	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	120%	124%	70-130%
	13C2-PFDA	94%	106%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SW-007		
Lab Sample ID:	FA18740-7	**Date Sampled:**	09/29/14
Matrix:	AQ - Surface Water	**Date Received:**	09/30/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7316.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0247	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.0395	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0866	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.165	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	112%		70-130%
	13C2-PFDA	92%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SW-008		
Lab Sample ID:	FA18740-8	**Date Sampled:**	09/29/14
Matrix:	AQ - Surface Water	**Date Received:**	09/30/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7317.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
Run #2	Q7326.D	10	10/08/14	NAF	10/07/14	OP53433	SQ248

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0579	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.117	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.0137	0.021	0.017	0.0083	ug/l	J
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0141	0.021	0.017	0.0083	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.403 [a]	0.21	0.17	0.083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	1.36 [a]	0.21	0.17	0.083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	119%	119%	70-130%
	13C2-PFDA	102%	112%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SW-009		
Lab Sample ID:	FA18740-9	**Date Sampled:**	09/29/14
Matrix:	AQ - Surface Water	**Date Received:**	09/30/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7320.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
Run #2	Q7327.D	5	10/08/14	NAF	10/07/14	OP53433	SQ248

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0582	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.106	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.0108	0.021	0.017	0.0083	ug/l	J
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0144	0.021	0.017	0.0083	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.412 [a]	0.10	0.083	0.042	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.949 [a]	0.10	0.083	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	119%	126%	70-130%
	13C2-PFDA	95%	120%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SW-010
Lab Sample ID: FA18740-10
Matrix: AQ - Surface Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/29/14
Date Received: 09/30/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7321.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
Run #2	Q7328.D	5	10/08/14	NAF	10/07/14	OP53433	SQ248

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0469	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.0899	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.0128	0.020	0.016	0.0080	ug/l	J
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0194	0.020	0.016	0.0080	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.321	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	1.08 [a]	0.10	0.080	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	115%	120%	70-130%
	13C2-PFDA	98%	120%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SW-011
Lab Sample ID: FA18740-11
Matrix: AQ - Surface Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/29/14
Date Received: 09/30/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7322.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
Run #2	Q7329.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0349	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.0508	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.0101	0.021	0.017	0.0083	ug/l	J
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.136	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.366 [a]	0.042	0.033	0.017	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	112%	106%	70-130%
	13C2-PFDA	92%	105%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA18740

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Atten: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 9/29/2014
COC #: AC_92920141
PAGE: 1 OF 1

Project Name:	Plattsburgh ~~Dover~~ AFB	Project Contact:	Marie Bevier	Bill To:	AMEC Environment & Infrastructure	Disposal Instructions:	LAB
Project Number:	776290177	Phone Number:	(603) 639-3400		Quorum Office Park, 271 Mill Road	Shipment Method:	COURIER
Project Manager:	Melissa Helton	Project Phase:			Chelmsford, MA 01824	Waybill Number:	N/A

No	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	PLTSB-SD-007	09/29/14 11:33	SE	N	N	X						
2	PLTSB-SD-008	09/29/14 14:20	SE	N	N	X						
3	PLTSB-SD-009	09/29/14 13:44	SE	N	N	X						
4	PLTSB-SD-010	09/29/14 10:15	SE	N	N	X						
5	PLTSB-SD-011	09/29/14 10:55	SE	N	N	X						
6	PLTSB-SW-006	09/29/14 15:00	SW	N	N	X						
7	PLTSB-SW-007	09/29/14 11:33	SW	N	N	X						
8	PLTSB-SW-008	09/29/14 14:20	SW	N	N	X						
9	PLTSB-SW-009	09/29/14 13:44	SW	N	N	X						
10	PLTSB-SW-010	09/29/14 10:15	SW	N	N	X						
11	PLTSB-SW-011	09/29/14 10:55	SW	N	N	X						
12												

Methods for Analysis

RUSH

Sampler's Signature: [signature] Date: 9/29/14 Time: 1800

Relinquished By/Affiliation: Date: Time:

Received By: Date: Time:

Relinquished By/Affiliation: Date: 09-30-14 Time: 930

Received By: [signature] Date: 09-30-14 Time: 930

Relinquished By/Affiliation: Date: Time:

Received By (LAB): Date: Time:

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT: 3.0

5.1 5

FA18740: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA18740 CLIENT: AMEC PROJECT: Plattsburgh AFB

DATE/TIME RECEIVED: 09-30-14 938 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8063 1884 2395

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

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

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

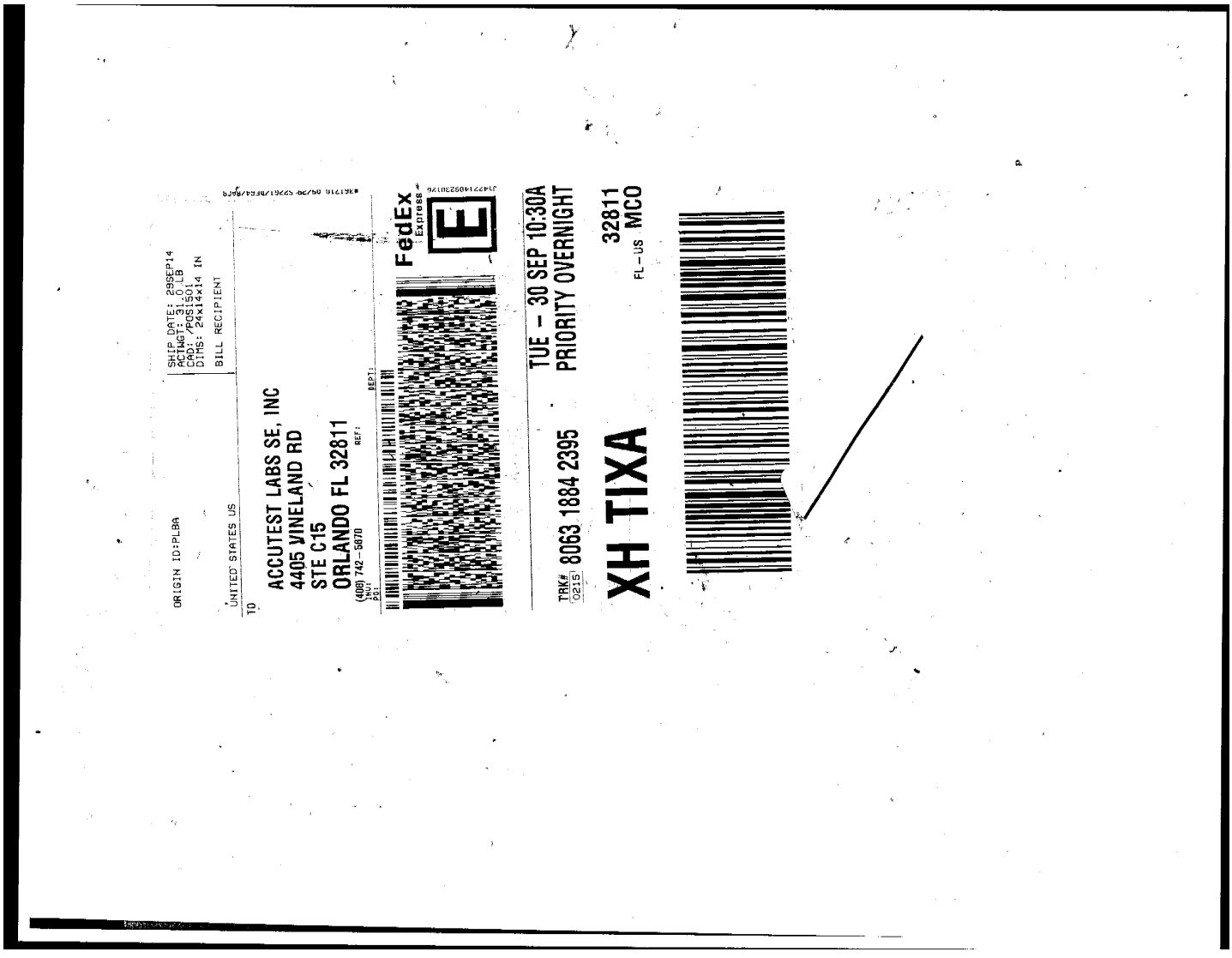
TECHNICIAN SIGNATURE/DATE: [signature] 09-30-14 REVIEWER SIGNATURE/DATE: [signature] 9-30-14

RS 04/14 receipt confirmation 041514.xls

5.1 5

FA18740: Chain of Custody

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FA18740: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53432-MB	Q7283.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18740-1, FA18740-2, FA18740-3, FA18740-4, FA18740-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	102%	70-130%

Method Blank Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-MB	Q7309.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18740-6, FA18740-7, FA18740-8, FA18740-9, FA18740-10, FA18740-11

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	85%	70-130%

Blank Spike Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53432-BS	Q7284.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18740-1, FA18740-2, FA18740-3, FA18740-4, FA18740-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	82.7	83	70-130
335-67-1	Perfluorooctanoic acid	100	88.3	88	70-130
375-95-1	Perfluorononanoic acid	100	99.7	100	70-130
375-73-5	Perfluorobutanesulfonic acid	100	104	104	70-130
355-46-4	Perfluorohexanesulfonic acid	100	96.1	96	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	90.9	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	101%	70-130%
	13C2-PFDA	93%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-BS	Q7308.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18740-6, FA18740-7, FA18740-8, FA18740-9, FA18740-10, FA18740-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.159	99	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.165	103	70-130
375-95-1	Perfluorononanoic acid	0.16	0.170	106	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.194	121	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.168	105	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.113	71	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	130%	70-130%
	13C2-PFDA	89%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53432-MS	Q7294.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
OP53432-MSD	Q7295.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
FA18803-4	Q7293.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18740-1, FA18740-2, FA18740-3, FA18740-4, FA18740-5

CAS No.	Compound	FA18803-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	21 U		172	134	78	142	102	72	27	70-130/30
335-67-1	Perfluorooctanoic acid	42 U		172	146	85	142	111	78	27	70-130/30
375-95-1	Perfluorononanoic acid	21 U		172	166	96	142	127	90	27	70-130/30
375-73-5	Perfluorobutanesulfonic acid	21 U		172	160	93	142	126	89	24	70-130/30
355-46-4	Perfluorohexanesulfonic acid	21 U		172	159	92	142	123	87	26	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	21 U		172	148	86	142	116	82	24	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18803-4	Limits
	13C2-PFHxA	93%	92%	94%	70-130%
	13C2-PFDA	93%	88%	85%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-MS	Q7324.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248
OP53433-MSD	Q7325.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248
FA18740-6	Q7313.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
FA18740-6	Q7323.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18740-6, FA18740-7, FA18740-8, FA18740-9, FA18740-10, FA18740-11

CAS No.	Compound	FA18740-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.0397		0.333	0.378	101	0.333	0.354	94	7	70-130/30
335-67-1	Perfluorooctanoic acid	0.0825		0.333	0.485	121	0.333	0.447	109	8	70-130/30
375-95-1	Perfluorononanoic acid	0.020 U		0.333	0.421	126	0.333	0.392	118	7	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.0111	J	0.333	0.433	127	0.333	0.403	118	7	70-130/30
355-46-4	Perfluorohexanesulfonic acid	0.286		0.333	0.799	154*	0.333	0.636	105	23	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.520 [a]		0.333	0.986	140*	0.333	0.862	103	13	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18740-6	FA18740-6	Limits
	13C2-PFHxA	138%* [b]	121%	120%	124%	70-130%
	13C2-PFDA	136%* [b]	112%	94%	106%	70-130%

(a) Result is from Run #2.
(b) Outside control limits.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ247-CC234	**Injection Date:**	10/07/14
Lab File ID:	Q7282.D	**Injection Time:**	14:54
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	39569	5.98	17258	6.58	27673	9.62
Upper Limit [c]	57426	6.98	22568	7.58	39822	10.62
Lower Limit [d]	19142	4.98	7523	5.58	13274	8.62

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53432-MB	41928	5.98	17822	6.58	27196	9.63
OP53432-BS	42047	5.98	18088	6.58	28641	9.62
FA18740-1	42904	5.98	17917	6.58	27957	9.62
FA18740-2	43706	5.98	18080	6.58	28571	9.63
FA18740-3	42012	5.98	17209	6.58	29605	9.62
FA18740-4	45241	5.98	18498	6.58	29979	9.62
FA18740-5	44000	5.98	18230	6.58	29555	9.62

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ247-CC234	**Injection Date:**	10/07/14
Lab File ID:	Q7290.D	**Injection Time:**	17:29
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	41302	6.00	17903	6.59	26209	9.66
Upper Limit [c]	57426	7.00	22568	7.59	39822	10.66
Lower Limit [d]	19142	5.00	7523	5.59	13274	8.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	44725	6.00	18475	6.59	31080	9.70
FA18803-4	39563	6.01	16583	6.61	29389	9.70
OP53432-MS	40818	6.00	17875	6.59	27105	9.71
OP53432-MSD	42591	6.00	18247	6.59	28297	9.69
ZZZZZZ	43071	6.00	18111	6.59	29442	9.70
ZZZZZZ	44207	6.00	18564	6.59	26822	9.69
ZZZZZZ	46039	6.00	19320	6.59	31930	9.69
SQ247-ECC234	44497	6.01	19497	6.59	25361	9.71

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ248-CC234	**Injection Date:**	10/08/14
Lab File ID:	Q7307.D	**Injection Time:**	10:33
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	38851	5.90	17120	6.47	25958	9.42
Upper Limit [c]	57426	6.90	22568	7.47	39822	10.42
Lower Limit [d]	19142	4.90	7523	5.47	13274	8.42

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53433-BS	39084	5.88	16433	6.47	26211	9.42
OP53433-MB	40601	5.88	16517	6.46	25215	9.40
ZZZZZZ	40940	5.88	16285	6.46	25736	9.41
FA18740-6	43601	5.87	17033	6.46	28584	9.38
FA18740-7	43656	5.87	16686	6.44	28487	9.38
FA18740-8	41099	5.87	14638	6.44	27351	9.37

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ248-CC234	**Injection Date:**	10/08/14
Lab File ID:	Q7318.D	**Injection Time:**	14:48
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	42325	5.87	17206	6.44	29281	9.38
Upper Limit [c]	57426	6.87	22568	7.44	39822	10.38
Lower Limit [d]	19142	4.87	7523	5.44	13274	8.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18740-9	44966	5.87	16722	6.44	30988	9.38
FA18740-10	45148	5.86	16563	6.44	30633	9.35
FA18740-11	41995	5.87	15673	6.44	28881	9.38
FA18740-6	44187	5.87	17030	6.44	29276	9.38
OP53433-MS	39567	5.90	15474	6.49	26512	9.62
OP53433-MSD	43711	5.90	17098	6.49	28620	9.63
FA18740-8	45959	5.90	17303	6.49	28665	9.63
FA18740-9	45422	5.90	17398	6.49	28649	9.65
FA18740-10	46928	5.90	17689	6.49	29392	9.66
FA18740-11	47832	5.90	17915	6.49	29880	9.66

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Surrogate Recovery Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18740-6	Q7323.D	124	106
FA18740-6	Q7313.D	120	94
FA18740-7	Q7316.D	112	92
FA18740-8	Q7326.D	119	112
FA18740-8	Q7317.D	119	102
FA18740-9	Q7327.D	126	120
FA18740-9	Q7320.D	119	95
FA18740-10	Q7328.D	120	120
FA18740-10	Q7321.D	115	98
FA18740-11	Q7329.D	106	105
FA18740-11	Q7322.D	112	92
OP53433-BS	Q7308.D	130	89
OP53433-MB	Q7309.D	115	85
OP53433-MS	Q7324.D	138* [a]	136* [a]
OP53433-MSD	Q7325.D	121	112

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

(a) Outside control limits.

Semivolatile Surrogate Recovery Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18740-1	Q7285.D	104	101
FA18740-2	Q7286.D	101	95
FA18740-3	Q7287.D	103	96
FA18740-4	Q7288.D	96	90
FA18740-5	Q7289.D	101	92
OP53432-BS	Q7284.D	101	93
OP53432-MB	Q7283.D	109	102
OP53432-MS	Q7294.D	93	93
OP53432-MSD	Q7295.D	92	88

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

Initial Calibration Summary

Job Number: FA18740 **Sample:** SQ234-ICC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6939.D
Project: Plattsburgh AFB; Plattsburgh, NY

Initial Calibration ReSponse Factors - D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID : Calibration File
1 : D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2 : D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3 : D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4 : D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5 : D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6 : D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7 : D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Compound	1	2	3	4	5	6	7	AvgRF	%RSD	r^2
2) 13C2-PFDoDA	----------ISTD----------									
1) 13C2-PFDA	1.4694	1.2705	1.3641	1.3573	1.2782	1.1995	1.1677	1.3010	8.002	0.9925
8) PFDA	1.3529	1.1705	1.2774	1.2682	1.2016	1.1239	1.0824	1.2110	7.811	0.9913
9) PFDoDA	0.9528	0.9350	0.8811	0.8914	0.8903	0.8623	0.8657	0.8969	3.827	0.9994
10) PFDS	0.2240	0.2180	0.2018	0.2025	0.1985	0.1920	0.1929	0.2043	5.996	0.9989
19) PFTeDA	0.7532	0.6581	0.5739	0.5913	0.5950	0.5845	0.5932	0.6213	10.333	0.9994
20) PFTrDA	0.8594	0.8431	0.7924	0.7963	0.7967	0.7777	0.7789	0.8063	3.964	0.9999
21) PFUnDA	1.4969	1.2243	1.1198	1.0728	1.0513	1.0110	1.0658	1.1489	14.603	0.9948
4) 13C2-PFOA	----------ISTD----------									
3) 13C2-PFHxA	0.3285	0.3294	0.3113	0.3056	0.3013	0.2929	0.2943	0.3090	4.856	0.9992
6) PFBA	0.2472	0.2443	0.2374	0.2319	0.2354	0.2301	0.2321	0.2369	2.771	0.9998
11) PFHpA	0.4292	0.3812	0.3486	0.3311	0.3247	0.3126	0.3091	0.3481	12.464	0.9994
13) PFHxA	0.3782	0.3737	0.3488	0.3465	0.3428	0.3331	0.3339	0.3510	5.150	0.9992
15) PFNA	0.5906	0.5169	0.4639	0.4647	0.4599	0.4509	0.4500	0.4853	10.660	0.9996
16) PFOA	1.3992	1.1606	1.0285	1.0005	0.9828	0.9625	0.9647	1.0713	14.922	0.9959
18) PFPeA	0.1233	0.1212	0.1155	0.1139	0.1149	0.1115	0.1146	0.1164	3.645	0.9995
5) 13C4-PFOS	----------ISTD----------									
7) PFBS	0.4070	0.3735	0.3399	0.3254	0.3260	0.3064	0.3165	0.3421	10.450	0.9975
12) PFHpS	0.6380	0.6341	0.6144	0.5989	0.6054	0.5816	0.5927	0.6093	3.437	0.9993
14) PFHxS	0.6360	0.5636	0.5422	0.5072	0.5081	0.4775	0.4990	0.5334	10.027	0.9974
17) PFOS	1.3645	1.1081	1.0077	0.9890	0.9834	0.9433	0.9543	1.0500	14.167	0.9965

*(value) - Average RF below (value)

Initial Calibration Verification

Job Number: FA18740 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6944.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6944
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	# -100.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	# -100.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.367	1.8	101.8
PFBS	20.000	21.501	7.5	107.5
PFDA	20.000	21.272	6.4	106.4
PFDoDA	20.000	21.331	6.7	106.7
PFDS	20.000	21.521	7.6	107.6
PFHpA	20.000	20.021	0.1	100.1
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	20.765	3.8	103.8
PFHxS	20.000	21.704	8.5	108.5
PFNA	20.000	20.123	0.6	100.6
PFOA	20.000	20.065	0.3	100.3
PFOS	20.000	20.717	3.6	103.6
PFPeA	20.000	20.410	2.1	102.1
PFTeDA	20.000	22.398	12.0	112.0
PFTrDA	20.000	20.605	3.0	103.0
PFUnDA	20.000	20.271	1.4	101.4

CC Criteria: +/- 25%

Initial Calibration Verification

Job Number: FA18740 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6945.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6945
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	0.000	0.0	0.0
PFBS	20.000	24.861	24.3	124.3
PFDA	20.000	0.000	0.0	0.0
PFDoDA	20.000	0.000	0.0	0.0
PFDS	20.000	0.000	0.0	0.0
PFHpA	20.000	18.993	-5.0	95.0
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	0.000	0.0	0.0
PFHxS	20.000	23.899	19.5	119.5
PFNA	20.000	21.584	7.9	107.9
PFOA	20.000	19.090	-4.5	95.5
PFOS	20.000	20.549	2.7	102.7
PFPeA	20.000	0.000	0.0	0.0
PFTeDA	20.000	0.000	0.0	0.0
PFTrDA	20.000	0.000	0.0	0.0
PFUnDA	20.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18740 **Sample:** SQ247-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7282.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1007_PFC_SQ247\sq247.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7282
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.262	-3.7	96.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.647	3.2	103.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.789	8.9	108.9
PFBS	20.000	19.758	-1.2	98.8
PFDA	20.000	18.654	-6.7	93.3
PFDoDA	20.000	22.187	10.9	110.9
PFDS	20.000	25.145	# 25.7	125.7
PFHpA	20.000	20.292	1.5	101.5
PFHpS	20.000	20.342	1.7	101.7
PFHxA	20.000	21.483	7.4	107.4
PFHxS	20.000	19.902	-0.5	99.5
PFNA	20.000	21.163	5.8	105.8
PFOA	20.000	20.764	3.8	103.8
PFOS	20.000	20.478	2.4	102.4
PFPeA	20.000	22.358	11.8	111.8
PFTeDA	20.000	19.213	-3.9	96.1
PFTrDA	20.000	23.252	16.3	116.3
PFUnDA	20.000	16.895	-15.5	84.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18740 **Sample:** SQ247-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7290.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1007_PFC_SQ247\sq247.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7290
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	21.592	8.0	108.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.594	-2.0	98.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.406	7.0	107.0
PFBS	20.000	19.220	-3.9	96.1
PFDA	20.000	19.974	-0.1	99.9
PFDoDA	20.000	22.204	11.0	111.0
PFDS	20.000	24.778	23.9	123.9
PFHpA	20.000	19.694	-1.5	98.5
PFHpS	20.000	20.427	2.1	102.1
PFHxA	20.000	20.576	2.9	102.9
PFHxS	20.000	19.749	-1.3	98.7
PFNA	20.000	21.955	9.8	109.8
PFOA	20.000	20.635	3.2	103.2
PFOS	20.000	20.346	1.7	101.7
PFPeA	20.000	21.755	8.8	108.8
PFTeDA	20.000	16.648	-16.8	83.2
PFTrDA	20.000	22.031	10.2	110.2
PFUnDA	20.000	17.427	-12.9	87.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18740 **Sample:** SQ247-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7302.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1007_PFC_SQ247\sq247.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7302
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	22.220	11.1	111.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.011	-4.9	95.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.801	9.0	109.0
PFBS	20.000	19.193	-4.0	96.0
PFDA	20.000	19.465	-2.7	97.3
PFDoDA	20.000	22.162	10.8	110.8
PFDS	20.000	23.987	19.9	119.9
PFHpA	20.000	19.599	-2.0	98.0
PFHpS	20.000	19.993	0.0	100.0
PFHxA	20.000	20.208	1.0	101.0
PFHxS	20.000	19.332	-3.3	96.7
PFNA	20.000	22.035	10.2	110.2
PFOA	20.000	20.456	2.3	102.3
PFOS	20.000	20.241	1.2	101.2
PFPeA	20.000	22.198	11.0	111.0
PFTeDA	20.000	22.037	10.2	110.2
PFTrDA	20.000	26.286	# 31.4	131.4
PFUnDA	20.000	17.822	-10.9	89.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18740 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7307.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7307
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	15.308	-23.5	76.5
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	22.176	10.9	110.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.709	3.5	103.5
PFBS	20.000	19.639	-1.8	98.2
PFDA	20.000	16.591	-17.0	83.0
PFDoDA	20.000	20.965	4.8	104.8
PFDS	20.000	30.569	# 52.8	152.8
PFHpA	20.000	21.590	8.0	108.0
PFHpS	20.000	20.604	3.0	103.0
PFHxA	20.000	22.021	10.1	110.1
PFHxS	20.000	20.146	0.7	100.7
PFNA	20.000	20.247	1.2	101.2
PFOA	20.000	20.717	3.6	103.6
PFOS	20.000	20.602	3.0	103.0
PFPeA	20.000	24.164	20.8	120.8
PFTeDA	20.000	19.075	-4.6	95.4
PFTrDA	20.000	23.122	15.6	115.6
PFUnDA	20.000	23.653	18.3	118.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18740 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7318.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7318
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.026	-9.9	90.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.248	6.2	106.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.177	5.9	105.9
PFBS	20.000	20.824	4.1	104.1
PFDA	20.000	19.026	-4.9	95.1
PFDoDA	20.000	20.519	2.6	102.6
PFDS	20.000	25.590	# 27.9	127.9
PFHpA	20.000	20.098	0.5	100.5
PFHpS	20.000	21.164	5.8	105.8
PFHxA	20.000	21.300	6.5	106.5
PFHxS	20.000	20.421	2.1	102.1
PFNA	20.000	21.619	8.1	108.1
PFOA	20.000	20.652	3.3	103.3
PFOS	20.000	20.728	3.6	103.6
PFPeA	20.000	23.493	17.5	117.5
PFTeDA	20.000	19.827	-0.9	99.1
PFTrDA	20.000	21.150	5.7	105.7
PFUnDA	20.000	16.584	-17.1	82.9

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18740 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7330.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7330
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	23.603	18.0	118.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.691	3.5	103.5
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.661	3.3	103.3
PFBS	20.000	19.707	-1.5	98.5
PFDA	20.000	25.457	# 27.3	127.3
PFDoDA	20.000	24.799	24.0	124.0
PFDS	20.000	25.885	# 29.4	129.4
PFHpA	20.000	19.948	-0.3	99.7
PFHpS	20.000	20.464	2.3	102.3
PFHxA	20.000	20.932	4.7	104.7
PFHxS	20.000	20.345	1.7	101.7
PFNA	20.000	22.137	10.7	110.7
PFOA	20.000	20.820	4.1	104.1
PFOS	20.000	20.594	3.0	103.0
PFPeA	20.000	22.288	11.4	111.4
PFTeDA	20.000	19.359	-3.2	96.8
PFTrDA	20.000	25.721	# 28.6	128.6
PFUnDA	20.000	19.726	-1.4	98.6

CC Criteria: +/- 25%

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA18740
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18740-1	**Analyzed:** 09-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SD-007			
Wet Weight (Total)	7.91	g	
Tare Weight	1.05	g	
Dry Weight (Total)	6.37	g	
Solids, Percent	77.6	%	
Sample: FA18740-2	**Analyzed:** 09-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SD-008			
Wet Weight (Total)	6.52	g	
Tare Weight	1.03	g	
Dry Weight (Total)	5.41	g	
Solids, Percent	79.8	%	
Sample: FA18740-3	**Analyzed:** 09-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SD-009			
Wet Weight (Total)	6.43	g	
Tare Weight	1.05	g	
Dry Weight (Total)	4.01	g	
Solids, Percent	55	%	
Sample: FA18740-4	**Analyzed:** 09-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SD-010			
Wet Weight (Total)	8.17	g	
Tare Weight	1.04	g	
Dry Weight (Total)	6.51	g	
Solids, Percent	76.7	%	
Sample: FA18740-5	**Analyzed:** 09-OCT-14 by LE		**Method:** SM19 2540G
ClientID: PLTSB-SD-011			
Wet Weight (Total)	6.56	g	
Tare Weight	1.02	g	
Dry Weight (Total)	5.35	g	
Solids, Percent	78.2	%	

Southeast ACCUTEST LABORATORIES

Reissue #1
10/27/14



Technical Report for

AMEC Environment & Infrastructure, Inc.

Plattsburgh AFB; Plattsburgh, NY

775290177

Accutest Job Number: FA18741

Sampling Date: 09/29/14

Report to:

AMEC Environment & Infrastructure, Inc.

marie.bevier@amec.com

ATTN: Marie Bevier

Total number of pages in report: **28**

NELAP ACCREDITED TNI LABORATORY

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

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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October 23, 2014

Ms. Marie Bevier
AMEC Environment & Infrastructure
7376 SW Durham Rd.
Portland, OR 97224

RE: Accutest job FA18741 Reissue

Dear Ms. Bevier,

The final report for job number FA18741 has been edited to reflect the following corrections. These edits have been incorporated into the revised report.

A sample ID table has been added to the report.

Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE

Sections: 1 2 3 4 5 6

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Sample Summary

AMEC Environment & Infrastructure, Inc.

Job No: FA18741

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18741-1	09/29/14	17:10	DR	09/30/14	AQ	Ground Water	PLTSB-GW-008

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc. **Job No:** FA18741

Site: Plattsburgh AFB; Plattsburgh, NY **Report Date** 10/10/2014 4:18:10

1 Sample was collected on 09/29/2014 and were received at Accutest on 09/30/2014 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA18741. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP53433

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18740-6MS, FA18740-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits. Probable cause is due to matrix interference. For method performance in clean matrix refer to Blank Spike.

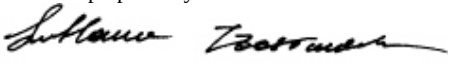
Sample(s) OP53433-MS have surrogates outside control limits. Probable cause is due to matrix interference.

OP53433-MS for 13C2-PFHxA: Outside control limits.

OP53433-MS for 13C2-PFDA: Outside control limits.

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

Narrative prepared by:



Svetlana Izosimova, QA Officer

Date: October 10, 2014

Sample Location	Sample ID	Sample Date	Sample Depth	Lab ID
PRB-15	PLTSB-GW-008	09/29/14		FA18741-8

Summary of Hits

Job Number: FA18741
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 09/29/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18741-1	**PLTSB-GW-008**					
Perfluoroheptanoic acid		0.00941 J	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0176 J	0.042	0.033	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.107	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.0314	0.021	0.017	ug/l	EPA 537 MOD

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: PLTSB-GW-008
Lab Sample ID: FA18741-1
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/29/14
Date Received: 09/30/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7332.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.00941	0.021	0.017	0.0083	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0176	0.042	0.033	0.017	ug/l	J
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.107	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0314	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	102%		70-130%
	13C2-PFDA	111%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA18741

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Atten: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 9/29/2014
COC #: AC_92920141
PAGE: 1 OF 1

Project Name:	~~Beale~~ Plattsburgh AFB	Project Contact:	Marie Bevier	Bill To:	AMEC Environment & Infrastructure	Disposal Instructions	LAB
Project Number:	7758290177	Phone Number:	(503) 639-3400		Quorum Office Park, 271 Mill Road	Shipment Method:	COURIER
Project Manager:	Melissa Helton	Project Phase			Chelmsford, MA 01824	Waybill Number:	N/A

Sample Information						Methods for Analysis	RUSH					
No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	PLTSB-GW-008	09/29/14 17:10	GW	N	N	X						
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

Sampler's Signature:	Date: 9/29/14	Time: 1800
Relinquished By/Affiliation:	Date:	Time:
Received By:	Date:	Time:
Relinquished By/Affiliation:	Date: 9-30-14	Time: 930
Received By:	Date: 9/30/14	Time: 930
Relinquished By/Affiliation:	Date:	Time:
Received By (LAB):	Date:	Time:

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

5.1
5

FA18741: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA18741 CLIENT: Amec PROJECT: Plattsburgh AFB

DATE/TIME RECEIVED: 09-30-14 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8063 1884 2395

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [V] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

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

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 09-30-14 REVIEWER SIGNATURE/DATE: 9-30-14

RS 04/14 receipt confirmation 041514.xls

5.1 5

FA18741: Chain of Custody
Page 2 of 3

FA18741: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA18741
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-MB	Q7309.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18741-1

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	85%	70-130%

Blank Spike Summary

Job Number: FA18741
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-BS	Q7308.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18741-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.159	99	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.165	103	70-130
375-95-1	Perfluorononanoic acid	0.16	0.170	106	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.194	121	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.168	105	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.113	71	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	130%	70-130%
	13C2-PFDA	89%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18741
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-MS	Q7324.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248
OP53433-MSD	Q7325.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248
FA18740-6	Q7313.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
FA18740-6	Q7323.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18741-1

CAS No.	Compound	FA18740-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.0397		0.333	0.378	101	0.333	0.354	94	7	70-130/30
335-67-1	Perfluorooctanoic acid	0.0825		0.333	0.485	121	0.333	0.447	109	8	70-130/30
375-95-1	Perfluorononanoic acid	0.020	U	0.333	0.421	126	0.333	0.392	118	7	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.0111	J	0.333	0.433	127	0.333	0.403	118	7	70-130/30
355-46-4	Perfluorohexanesulfonic acid	0.286		0.333	0.799	154*	0.333	0.636	105	23	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.520 [a]		0.333	0.986	140*	0.333	0.862	103	13	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18740-6	FA18740-6	Limits
	13C2-PFHxA	138%* [b]	121%	120%	124%	70-130%
	13C2-PFDA	136%* [b]	112%	94%	106%	70-130%

(a) Result is from Run #2.
(b) Outside control limits.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: FA18741
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ248-CC234	**Injection Date:**	10/08/14
Lab File ID:	Q7307.D	**Injection Time:**	10:33
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	38851	5.90	17120	6.47	25958	9.42
Upper Limit [c]	57426	6.90	22568	7.47	39822	10.42
Lower Limit [d]	19142	4.90	7523	5.47	13274	8.42

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53433-BS	39084	5.88	16433	6.47	26211	9.42
OP53433-MB	40601	5.88	16517	6.46	25215	9.40
ZZZZZZ	40940	5.88	16285	6.46	25736	9.41
FA18740-6	43601	5.87	17033	6.46	28584	9.38
ZZZZZZ	43656	5.87	16686	6.44	28487	9.38
ZZZZZZ	41099	5.87	14638	6.44	27351	9.37

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18741
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ248-CC234	**Injection Date:**	10/08/14
Lab File ID:	Q7318.D	**Injection Time:**	14:48
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	42325	5.87	17206	6.44	29281	9.38
Upper Limit [c]	57426	6.87	22568	7.44	39822	10.38
Lower Limit [d]	19142	4.87	7523	5.44	13274	8.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	44966	5.87	16722	6.44	30988	9.38
ZZZZZZ	45148	5.86	16563	6.44	30633	9.35
ZZZZZZ	41995	5.87	15673	6.44	28881	9.38
FA18740-6	44187	5.87	17030	6.44	29276	9.38
OP53433-MS	39567	5.90	15474	6.49	26512	9.62
OP53433-MSD	43711	5.90	17098	6.49	28620	9.63
ZZZZZZ	45959	5.90	17303	6.49	28665	9.63
ZZZZZZ	45422	5.90	17398	6.49	28649	9.65
ZZZZZZ	46928	5.90	17689	6.49	29392	9.66
ZZZZZZ	47832	5.90	17915	6.49	29880	9.66

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18741
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ248-CC234	**Injection Date:**	10/08/14
Lab File ID:	Q7330.D	**Injection Time:**	18:44
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	47718	5.90	19467	6.49	29675	9.66
Upper Limit [c]	57426	6.90	22568	7.49	39822	10.66
Lower Limit [d]	19142	4.90	7523	5.49	13274	8.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18741-1	44597	5.91	16974	6.51	27605	9.67
SQ248-ECC234	49904	5.91	20016	6.51	31162	9.69

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Surrogate Recovery Summary

Job Number: FA18741
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18741-1	Q7332.D	102	111
OP53433-BS	Q7308.D	130	89
OP53433-MB	Q7309.D	115	85
OP53433-MS	Q7324.D	138* [a]	136* [a]
OP53433-MSD	Q7325.D	121	112

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

(a) Outside control limits.

Initial Calibration Summary

Job Number: FA18741 **Sample:** SQ234-ICC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6939.D
Project: Plattsburgh AFB; Plattsburgh, NY

Initial Calibration ReSponse Factors - D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID : Calibration File
1 : D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2 : D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3 : D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4 : D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5 : D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6 : D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7 : D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Compound	1	2	3	4	5	6	7	AvgRF	%RSD	r^2
2) 13C2-PFDoDA	ISTD									
1) 13C2-PFDA	1.4694	1.2705	1.3641	1.3573	1.2782	1.1995	1.1677	1.3010	8.002	0.9925
8) PFDA	1.3529	1.1705	1.2774	1.2682	1.2016	1.1239	1.0824	1.2110	7.811	0.9913
9) PFDoDA	0.9528	0.9350	0.8811	0.8914	0.8903	0.8623	0.8657	0.8969	3.827	0.9994
10) PFDS	0.2240	0.2180	0.2018	0.2025	0.1985	0.1920	0.1929	0.2043	5.996	0.9989
19) PFTeDA	0.7532	0.6581	0.5739	0.5913	0.5950	0.5845	0.5932	0.6213	10.333	0.9994
20) PFTrDA	0.8594	0.8431	0.7924	0.7963	0.7967	0.7777	0.7789	0.8063	3.964	0.9999
21) PFUnDA	1.4969	1.2243	1.1198	1.0728	1.0513	1.0110	1.0658	1.1489	14.603	0.9948
4) 13C2-PFOA	ISTD									
3) 13C2-PFHxA	0.3285	0.3294	0.3113	0.3056	0.3013	0.2929	0.2943	0.3090	4.856	0.9992
6) PFBA	0.2472	0.2443	0.2374	0.2319	0.2354	0.2301	0.2321	0.2369	2.771	0.9998
11) PFHpA	0.4292	0.3812	0.3486	0.3311	0.3247	0.3126	0.3091	0.3481	12.464	0.9994
13) PFHxA	0.3782	0.3737	0.3488	0.3465	0.3428	0.3331	0.3339	0.3510	5.150	0.9992
15) PFNA	0.5906	0.5169	0.4639	0.4647	0.4599	0.4509	0.4500	0.4853	10.660	0.9996
16) PFOA	1.3992	1.1606	1.0285	1.0005	0.9828	0.9625	0.9647	1.0713	14.922	0.9959
18) PFPeA	0.1233	0.1212	0.1155	0.1139	0.1149	0.1115	0.1146	0.1164	3.645	0.9995
5) 13C4-PFOS	ISTD									
7) PFBS	0.4070	0.3735	0.3399	0.3254	0.3260	0.3064	0.3165	0.3421	10.450	0.9975
12) PFHpS	0.6380	0.6341	0.6144	0.5989	0.6054	0.5816	0.5927	0.6093	3.437	0.9993
14) PFHxS	0.6360	0.5636	0.5422	0.5072	0.5081	0.4775	0.4990	0.5334	10.027	0.9974
17) PFOS	1.3645	1.1081	1.0077	0.9890	0.9834	0.9433	0.9543	1.0500	14.167	0.9965

*(value) - Average RF below (value)

Initial Calibration Verification

Job Number: FA18741 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6944.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6944
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	# -100.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	# -100.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.367	1.8	101.8
PFBS	20.000	21.501	7.5	107.5
PFDA	20.000	21.272	6.4	106.4
PFDoDA	20.000	21.331	6.7	106.7
PFDS	20.000	21.521	7.6	107.6
PFHpA	20.000	20.021	0.1	100.1
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	20.765	3.8	103.8
PFHxS	20.000	21.704	8.5	108.5
PFNA	20.000	20.123	0.6	100.6
PFOA	20.000	20.065	0.3	100.3
PFOS	20.000	20.717	3.6	103.6
PFPeA	20.000	20.410	2.1	102.1
PFTeDA	20.000	22.398	12.0	112.0
PFTrDA	20.000	20.605	3.0	103.0
PFUnDA	20.000	20.271	1.4	101.4

CC Criteria: +/- 25%

Initial Calibration Verification

Job Number: FA18741 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6945.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6945
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	0.000	0.0	0.0
PFBS	20.000	24.861	24.3	124.3
PFDA	20.000	0.000	0.0	0.0
PFDoDA	20.000	0.000	0.0	0.0
PFDS	20.000	0.000	0.0	0.0
PFHpA	20.000	18.993	-5.0	95.0
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	0.000	0.0	0.0
PFHxS	20.000	23.899	19.5	119.5
PFNA	20.000	21.584	7.9	107.9
PFOA	20.000	19.090	-4.5	95.5
PFOS	20.000	20.549	2.7	102.7
PFPeA	20.000	0.000	0.0	0.0
PFTeDA	20.000	0.000	0.0	0.0
PFTrDA	20.000	0.000	0.0	0.0
PFUnDA	20.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18741 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7307.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7307
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	15.308	-23.5	76.5
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	22.176	10.9	110.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.709	3.5	103.5
PFBS	20.000	19.639	-1.8	98.2
PFDA	20.000	16.591	-17.0	83.0
PFDoDA	20.000	20.965	4.8	104.8
PFDS	20.000	30.569	# 52.8	152.8
PFHpA	20.000	21.590	8.0	108.0
PFHpS	20.000	20.604	3.0	103.0
PFHxA	20.000	22.021	10.1	110.1
PFHxS	20.000	20.146	0.7	100.7
PFNA	20.000	20.247	1.2	101.2
PFOA	20.000	20.717	3.6	103.6
PFOS	20.000	20.602	3.0	103.0
PFPeA	20.000	24.164	20.8	120.8
PFTeDA	20.000	19.075	-4.6	95.4
PFTrDA	20.000	23.122	15.6	115.6
PFUnDA	20.000	23.653	18.3	118.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18741 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7318.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7318
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.026	-9.9	90.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.248	6.2	106.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.177	5.9	105.9
PFBS	20.000	20.824	4.1	104.1
PFDA	20.000	19.026	-4.9	95.1
PFDoDA	20.000	20.519	2.6	102.6
PFDS	20.000	25.590	# 27.9	127.9
PFHpA	20.000	20.098	0.5	100.5
PFHpS	20.000	21.164	5.8	105.8
PFHxA	20.000	21.300	6.5	106.5
PFHxS	20.000	20.421	2.1	102.1
PFNA	20.000	21.619	8.1	108.1
PFOA	20.000	20.652	3.3	103.3
PFOS	20.000	20.728	3.6	103.6
PFPeA	20.000	23.493	17.5	117.5
PFTeDA	20.000	19.827	-0.9	99.1
PFTrDA	20.000	21.150	5.7	105.7
PFUnDA	20.000	16.584	-17.1	82.9

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18741 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7330.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7330
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	23.603	18.0	118.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.691	3.5	103.5
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.661	3.3	103.3
PFBS	20.000	19.707	-1.5	98.5
PFDA	20.000	25.457	# 27.3	127.3
PFDoDA	20.000	24.799	24.0	124.0
PFDS	20.000	25.885	# 29.4	129.4
PFHpA	20.000	19.948	-0.3	99.7
PFHpS	20.000	20.464	2.3	102.3
PFHxA	20.000	20.932	4.7	104.7
PFHxS	20.000	20.345	1.7	101.7
PFNA	20.000	22.137	10.7	110.7
PFOA	20.000	20.820	4.1	104.1
PFOS	20.000	20.594	3.0	103.0
PFPeA	20.000	22.288	11.4	111.4
PFTeDA	20.000	19.359	-3.2	96.8
PFTrDA	20.000	25.721	# 28.6	128.6
PFUnDA	20.000	19.726	-1.4	98.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18741 **Sample:** SQ248-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7333.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7333
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	22.970	14.8	114.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.867	-0.7	99.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	19.922	-0.4	99.6
PFBS	20.000	19.750	-1.3	98.7
PFDA	20.000	24.851	24.3	124.3
PFDoDA	20.000	24.255	21.3	121.3
PFDS	20.000	25.100	# 25.5	125.5
PFHpA	20.000	19.863	-0.7	99.3
PFHpS	20.000	20.957	4.8	104.8
PFHxA	20.000	20.496	2.5	102.5
PFHxS	20.000	20.476	2.4	102.4
PFNA	20.000	21.637	8.2	108.2
PFOA	20.000	20.426	2.1	102.1
PFOS	20.000	20.633	3.2	103.2
PFPeA	20.000	22.138	10.7	110.7
PFTeDA	20.000	18.487	-7.6	92.4
PFTrDA	20.000	25.209	# 26.0	126.0
PFUnDA	20.000	19.231	-3.8	96.2

CC Criteria: +/- 25%

Southeast ACCUTEST LABORATORIES

Reissue #1
10/27/14



Technical Report for

AMEC Environment & Infrastructure, Inc.

Plattsburgh AFB; Plattsburgh, NY

775290177

Accutest Job Number: FA18803

Sampling Date: 09/30/14

Report to:

AMEC Environment & Infrastructure, Inc.

marie.bevier@amec.com

ATTN: Marie Bevier

Total number of pages in report: **68**

NELAP ACCREDITED TNI LABORATORY

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

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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October 23, 2014

Ms. Marie Bevier
AMEC Environment & Infrastructure
7376 SW Durham Rd.
Portland, OR 97224

RE: Accutest job FA18803 Reissue

Dear Ms. Bevier,

The final report for job number FA18803 has been edited to reflect the following corrections. These edits have been incorporated into the revised report.

A sample ID table has been added to the report.

Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE

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Sample Summary

AMEC Environment & Infrastructure, Inc.

Job No: FA18803

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA18803-1	09/30/14	11:50	MH	10/01/14	AQ	Equipment Blank	PLTSB-FT002P-BLK11
FA18803-2	09/30/14	11:50	MH	10/01/14	AQ	Field Blank Water	PLTSB-FT002P-BLK12
FA18803-3	09/30/14	15:10	MH	10/01/14	SO	Sediment	PLTSB-SD-001
FA18803-4	09/30/14	14:15	MH	10/01/14	SO	Sediment	PLTSB-SD-002
FA18803-5	09/30/14	14:15	MH	10/01/14	SO	Sediment	PLTSB-SD-003
FA18803-6	09/30/14	13:35	MH	10/01/14	SO	Sediment	PLTSB-SD-004
FA18803-7	09/30/14	11:21	MH	10/01/14	SO	Sediment	PLTSB-SD-005
FA18803-8	09/30/14	15:10	MH	10/01/14	AQ	Surface Water	PLTSB-SW-001
FA18803-9	09/30/14	14:15	MH	10/01/14	AQ	Surface Water	PLTSB-SW-002
FA18803-10	09/30/14	14:15	MH	10/01/14	AQ	Surface Water	PLTSB-SW-003
FA18803-11	09/30/14	13:35	MH	10/01/14	AQ	Surface Water	PLTSB-SW-004
FA18803-12	09/30/14	11:21	MH	10/01/14	AQ	Surface Water	PLTSB-SW-005
FA18803-13	09/30/14	17:20	MH	10/01/14	AQ	Ground Water	PLTSB-GW-007

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

AMEC Environment & Infrastructure, Inc.

Job No: FA18803

Plattsburgh AFB; Plattsburgh, NY
Project No: 775290177

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA18803-14	09/30/14	16:10	MH	10/01/14	AQ	Ground Water	PLTSB-INF-001

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AMEC Environment & Infrastructure, Inc. **Job No:** FA18803

Site: Plattsburgh AFB; Plattsburgh, NY **Report Date:** 10/14/2014 11:50:34

13 Sample(s) and 1 Field Blank(s) were collected on 09/30/2014 and were received at Accutest SE on 10/01/2014 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA18803. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP53433

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18740-6MS, FA18740-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP53433-MS have surrogates outside control limits. Probable cause is due to matrix interference.

OP53433-MS for 13C2-PFDA: Outside control limits.

OP53433-MS for 13C2-PFHxA: Outside control limits.

Matrix: AQ **Batch ID:** OP53439

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18803-9MS, FA18803-9MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorooctanoic acid, Perfluorohexanesulfonic are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Perfluorooctanoic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s)/ Matrix Spike Duplicate Recovery(s) for Perfluorooctanesulfonic acid are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) FA18803-9, OP53439-BS have surrogates outside control limits.

FA18803-9 for 13C2-PFHxA: Outside control limits due to dilution.

OP53439-BS for 13C2-PFHxA: Outside control limits.

Matrix: SO **Batch ID:** OP53432

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA18803-4MS, FA18803-4MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN63577

Sample(s) FA18803-4DUP was used as the QC samples for Solids, Percent.

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

Narrative prepared by:

Date: October 14, 2014

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA18803-10	MSSEMI	Q7345.D	Perfluorooctanoic acid
FA18803-10	MSSEMI	Q7374.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
FA18803-11	MSSEMI	Q7346.D	Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18803-11	MSSEMI	Q7375.D	Perfluorohexanesulfonic acid
FA18803-12	MSSEMI	Q7347.D	Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18803-12	MSSEMI	Q7385.D	Perfluorohexanesulfonic acid
FA18803-13	MSSEMI	Q7350.D	Perfluorooctanesulfonic acid
FA18803-14	MSSEMI	Q7377.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18803-8	MSSEMI	Q7341.D	13C2-PFDA, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA18803-8	MSSEMI	Q7370.D	Perfluorohexanesulfonic acid
FA18803-9	MSSEMI	Q7342.D	13C2-PFDA
FA18803-9	MSSEMI	Q7371.D	Perfluorohexanesulfonic acid, Perfluorooctanoic acid
OP53432-BS	MSSEMI	Q7284.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
OP53432-MS	MSSEMI	Q7294.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
OP53432-MSD	MSSEMI	Q7295.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
OP53433-BS	MSSEMI	Q7308.D	Perfluorohexanesulfonic acid
OP53433-MS	MSSEMI	Q7324.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP53433-MSD	MSSEMI	Q7325.D	Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP53439-BS	MSSEMI	Q7338.D	13C2-PFDA, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
OP53439-MB	MSSEMI	Q7339.D	13C2-PFDA
OP53439-MS	MSSEMI	Q7372.D	Perfluorohexanesulfonic acid, Perfluorohexanoic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP53439-MSD	MSSEMI	Q7373.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
SQ234-IC234	MSSEMI	Q6936.D	Perfluorooctanoic acid, Perfluoroundecanoic acid
SQ234-ICV234	MSSEMI	Q6945.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorotridecanoic acid, Perfluoroundecanoic acid
SQ248-CC234	MSSEMI	Q7307.D	Perfluorotetradecanoic acid
SQ248-CC234	MSSEMI	Q7318.D	Perfluorodecanoic acid
SQ249-CC234	MSSEMI	Q7337.D	13C2-PFDA, Perfluorodecanoic acid
SQ250-CC234	MSSEMI	Q7368.D	Perfluorodecanoic acid
SQ251-CC234	MSSEMI	Q7384.D	13C2-PFDA, Perfluorotetradecanoic acid, Perfluorotridecanoic acid

29 Manual Integrations were found for FA18803

Sample Location	Sample ID	Sample Date	Sample Depth	Lab ID
PRB-02	PLTSB-GW-007	09/30/14		FA18803-13
PLTSB-FT002P-013	PLTSB-INF-001	09/30/14		FA18803-14
PLTSB-FT002P-009	PLTSB-SD-001	09/30/14		FA18803-3
PLTSB-FT002P-009	PLTSB-SW-001	09/30/14		FA18803-8
PLTSB-FT002P-010	PLTSB-SD-002	09/30/14		FA18803-4
PLTSB-FT002P-010	PLTSB-SW-002	09/30/14		FA18803-9
PLTSB-FT002P-010	PLTSB-SD-003	09/30/14		FA18803-5
PLTSB-FT002P-010	PLTSB-SW-003	09/30/14		FA18803-10
PLTSB-FT002P-011	PLTSB-SD-004	09/30/14		FA18803-6
PLTSB-FT002P-011	PLTSB-SW-004	09/30/14		FA18803-11
PLTSB-FT002P-012	PLTSB-SD-005	09/30/14		FA18803-7
PLTSB-FT002P-012	PLTSB-SW-005	09/30/14		FA18803-12

Summary of Hits

Job Number: FA18803
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 09/30/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18803-1	**PLTSB-FT002P-BLK11**					
No hits reported in this sample.						
FA18803-2	**PLTSB-FT002P-BLK12**					
No hits reported in this sample.						
FA18803-3	**PLTSB-SD-001**					
No hits reported in this sample.						
FA18803-4	**PLTSB-SD-002**					
No hits reported in this sample.						
FA18803-5	**PLTSB-SD-003**					
No hits reported in this sample.						
FA18803-6	**PLTSB-SD-004**					
No hits reported in this sample.						
FA18803-7	**PLTSB-SD-005**					
No hits reported in this sample.						
FA18803-8	**PLTSB-SW-001**					
Perfluoroheptanoic acid		0.0409	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.166	0.040	0.032	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0444	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.663	0.040	0.032	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.157	0.020	0.016	ug/l	EPA 537 MOD
FA18803-9	**PLTSB-SW-002**					
Perfluoroheptanoic acid		0.0893	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.413	0.20	0.16	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0319	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		1.24	0.10	0.080	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.188	0.10	0.080	ug/l	EPA 537 MOD

Summary of Hits

Job Number: FA18803
Account: AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY
Collected: 09/30/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA18803-10	**PLTSB-SW-003**					
Perfluoroheptanoic acid		0.0849	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.374	0.042	0.033	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0351	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		1.19	0.10	0.083	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.317	0.10	0.083	ug/l	EPA 537 MOD
FA18803-11	**PLTSB-SW-004**					
Perfluoroheptanoic acid		0.0752	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.346	0.042	0.033	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0352	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		1.18	0.10	0.083	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.410	0.021	0.017	ug/l	EPA 537 MOD
FA18803-12	**PLTSB-SW-005**					
Perfluoroheptanoic acid		0.0673	0.021	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.269	0.042	0.033	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0283	0.021	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.894	0.10	0.083	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.334	0.021	0.017	ug/l	EPA 537 MOD
FA18803-13	**PLTSB-GW-007**					
Perfluoroheptanoic acid		0.0126 J	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.0391 J	0.040	0.032	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.119	0.020	0.016	ug/l	EPA 537 MOD
FA18803-14	**PLTSB-INF-001**					
Perfluoroheptanoic acid		0.0947	0.020	0.016	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.420	0.20	0.16	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0298	0.020	0.016	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		1.49	0.10	0.080	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.434	0.10	0.080	ug/l	EPA 537 MOD

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: PLTSB-FT002P-BLK11
Lab Sample ID: FA18803-1
Matrix: AQ - Equipment Blank
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/30/14
Date Received: 10/01/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7340.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.033 U	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.017 U	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	122%		70-130%
	13C2-PFDA	110%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-FT002P-BLK12		
Lab Sample ID:	FA18803-2	**Date Sampled:**	09/30/14
Matrix:	AQ - Field Blank Water	**Date Received:**	10/01/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7311.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.032 U	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	121%		70-130%
	13C2-PFDA	93%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SD-001		
Lab Sample ID:	FA18803-3	**Date Sampled:**	09/30/14
Matrix:	SO - Sediment	**Date Received:**	10/01/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	80.7
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7292.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.09 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	14	11	5.7	ug/kg	
335-67-1	Perfluorooctanoic acid	23 U	28	23	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	14	11	6.5	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	14	11	5.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	14	11	5.7	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	14	11	5.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	96%		70-130%
	13C2-PFDA	86%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SD-002
Lab Sample ID: FA18803-4
Matrix: SO - Sediment
Method: EPA 537 MOD IN HOUSE
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/30/14
Date Received: 10/01/14
Percent Solids: 57.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7293.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.03 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	17 U	21	17	8.5	ug/kg	
335-67-1	Perfluorooctanoic acid	34 U	42	34	17	ug/kg	
375-95-1	Perfluorononanoic acid	17 U	21	17	9.7	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	17 U	21	17	8.5	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	17 U	21	17	8.5	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	17 U	21	17	8.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	94%		70-130%
	13C2-PFDA	85%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SD-003		
Lab Sample ID:	FA18803-5	**Date Sampled:**	09/30/14
Matrix:	SO - Sediment	**Date Received:**	10/01/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	49.0
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7296.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.18 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	17 U	22	17	8.6	ug/kg	
335-67-1	Perfluorooctanoic acid	35 U	43	35	17	ug/kg	
375-95-1	Perfluorononanoic acid	17 U	22	17	9.9	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	17 U	22	17	8.6	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	17 U	22	17	8.6	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	17 U	22	17	8.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	96%		70-130%
	13C2-PFDA	89%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SD-004		
Lab Sample ID:	FA18803-6	**Date Sampled:**	09/30/14
Matrix:	SO - Sediment	**Date Received:**	10/01/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	80.5
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7297.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.16 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	13	11	5.4	ug/kg	
335-67-1	Perfluorooctanoic acid	21 U	27	21	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	13	11	6.2	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	13	11	5.4	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	13	11	5.4	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	13	11	5.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	97%		70-130%
	13C2-PFDA	97%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-SD-005		
Lab Sample ID:	FA18803-7	**Date Sampled:**	09/30/14
Matrix:	SO - Sediment	**Date Received:**	10/01/14
Method:	EPA 537 MOD IN HOUSE	**Percent Solids:**	78.4
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7298.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
Run #2							

	Initial Weight	Final Volume
Run #1	1.11 g	5.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	11 U	14	11	5.7	ug/kg	
335-67-1	Perfluorooctanoic acid	23 U	29	23	11	ug/kg	
375-95-1	Perfluorononanoic acid	11 U	14	11	6.6	ug/kg	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	11 U	14	11	5.7	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	11 U	14	11	5.7	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	11 U	14	11	5.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	95%		70-130%
	13C2-PFDA	83%		70-130%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SW-001		
Lab Sample ID:	FA18803-8	**Date Sampled:**	09/30/14
Matrix:	AQ - Surface Water	**Date Received:**	10/01/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7341.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7370.D	2	10/10/14	NAF	10/08/14	OP53439	SQ250

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0409	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.166	0.040	0.032	0.016	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0444	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.663 [a]	0.040	0.032	0.016	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.157	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	109%	114%	70-130%
	13C2-PFDA	100%	91%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SW-002		
Lab Sample ID:	FA18803-9	**Date Sampled:**	09/30/14
Matrix:	AQ - Surface Water	**Date Received:**	10/01/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7342.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7371.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0893	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.413 [a]	0.20	0.16	0.080	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0319	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	1.24 [a]	0.10	0.080	0.040	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.188 [a]	0.10	0.080	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	115%	136% [b]	70-130%
	13C2-PFDA	103%	84%	70-130%

(a) Result is from Run# 2

(b) Outside control limits due to dilution.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SW-003		
Lab Sample ID:	FA18803-10	**Date Sampled:**	09/30/14
Matrix:	AQ - Surface Water	**Date Received:**	10/01/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7345.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7374.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0849	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.374	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0351	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	1.19 [a]	0.10	0.083	0.042	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.317 [a]	0.10	0.083	0.042	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	117%	116%	70-130%
	13C2-PFDA	108%	87%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-SW-004
Lab Sample ID: FA18803-11
Matrix: AQ - Surface Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/30/14
Date Received: 10/01/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7346.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7375.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0752	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.346	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0352	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	1.18 [a]	0.10	0.083	0.042	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.410	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	114%	130%	70-130%
	13C2-PFDA	111%	97%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PLTSB-SW-005		
Lab Sample ID:	FA18803-12	**Date Sampled:**	09/30/14
Matrix:	AQ - Surface Water	**Date Received:**	10/01/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7347.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7385.D	5	10/13/14	NAF	10/08/14	OP53439	SQ251

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0673	0.021	0.017	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.269	0.042	0.033	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.021	0.017	0.0083	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0283	0.021	0.017	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.894 [a]	0.10	0.083	0.042	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.334	0.021	0.017	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	109%	121%	70-130%
	13C2-PFDA	100%	116%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PLTSB-GW-007
Lab Sample ID: FA18803-13
Matrix: AQ - Ground Water
Method: EPA 537 MOD EPA 537 MOD
Project: Plattsburgh AFB; Plattsburgh, NY

Date Sampled: 09/30/14
Date Received: 10/01/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7350.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0126	0.020	0.016	0.0080	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0391	0.040	0.032	0.016	ug/l	J
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.016 U	0.020	0.016	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.119	0.020	0.016	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	119%		70-130%
	13C2-PFDA	113%		70-130%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID:	PLTSB-INF-001		
Lab Sample ID:	FA18803-14	**Date Sampled:**	09/30/14
Matrix:	AQ - Ground Water	**Date Received:**	10/01/14
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	Plattsburgh AFB; Plattsburgh, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q7351.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
Run #2	Q7377.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

Perfluorinated Carboxylic Acids and Sulfonates

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS							
375-85-9	Perfluoroheptanoic acid	0.0947	0.020	0.016	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.420 [a]	0.20	0.16	0.080	ug/l	
375-95-1	Perfluorononanoic acid	0.016 U	0.020	0.016	0.0080	ug/l	
PERFLUOROALKYLSULFONATES							
375-73-5	Perfluorobutanesulfonic acid	0.0298	0.020	0.016	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	1.49 [a]	0.10	0.080	0.040	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.434 [a]	0.10	0.080	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	115%	123%	70-130%
	13C2-PFDA	104%	95%	70-130%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA18803

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Atten: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 9/30/2014
COC #: AC_93020141
PAGE: 1 OF 1

Sample Information						Methods for Analysis	RUSH		
No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)		TOTAL BOTTLES	HOLD All Analyses
1	PLTSB-FT002P-BLK11	09/30/14 11:50	WQ	EB	N	X			
2	PLTSB-FT002P-BLK12	09/30/14 11:50	WQ	FB	N	X			
3	PLTSB-SD-001	09/30/14 15:10	SE	N	N	X			
4	PLTSB-SD-002	09/30/14 14:15	SE	N	Y	X			
5	PLTSB-SD-003	09/30/14 14:15	SE	FD	N	X			
6	PLTSB-SD-004	09/30/14 13:35	SE	N	N	X			
7	PLTSB-SD-005	09/30/14 11:21	SE	N	N	X			
8	PLTSB-SW-001	09/30/14 15:10	SW	N	N	X			
9	PLTSB-SW-002	09/30/14 14:15	SW	N	Y	X			
10	PLTSB-SW-003	09/30/14 14:15	SW	FD	N	X			
11	PLTSB-SW-004	09/30/14 13:35	SW	N	N	X			
12	PLTSB-SW-005	09/30/14 11:21	SW	N	N	X			

Sampler's Signature: Date: Time:

Relinquished By/Affiliation: Date: 9/30/14 Time: 1730

Received By: FE Date: Time:

Relinquished By/Affiliation: FE 10-01-14 Date: Time: 930

Received By: 10-01-14 Date: Time: 930

Relinquished By/Affiliation: Date: Time:

Received By (LAB): Date: Time:

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal Intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

3.0

5.1
5

FA18803: Chain of Custody
Page 1 of 4

FA 18803

amec

AMEC Environment & Infrastructure
511 Congress Street
Portland, ME 04101
(207) 828-3627

SHIP TO:
ACCUTEST
4405 Vineland Road
Orlando, FL
Atten: Anrea Colby
Lab Phone#

CHAIN OF CUSTODY

DATE: 9/30/2014
COC #: AC_93020141
PAGE: 1 OF 1

Sample Information

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	PFCs (LC/MS/MS)	TOTAL BOTTLES	HOLD All Analyses
1	PLTSB-GW-007	09/30/14 17:20	GW	N	N	X		
2	PLTSB-INF-001	09/30/14 16:10	GW	N	N	X		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Methods for Analysis

RUSH

Sampler's Signature: Date: Time:

Relinquished By/Affiliation: Date: 9/30/14 Time: 1730

Received By: Date: Time:

Relinquished By/Affiliation: Date: 10-01-14 Time: 930

Received By: Date: 10-01-14 Time: 930

Relinquished By/Affiliation: Date: Time:

Received By (LAB): Date: Time:

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	C

Comments:
X=Analyze H=Hold Analysis Request

NUMBER OF COOLERS SENT:

FA18803: Chain of Custody
Page 2 of 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA18803 CLIENT: AMEC PROJECT: Plattsburg AFB

DATE/TIME RECEIVED: 10-01-14 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8063 1884 2400

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

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

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

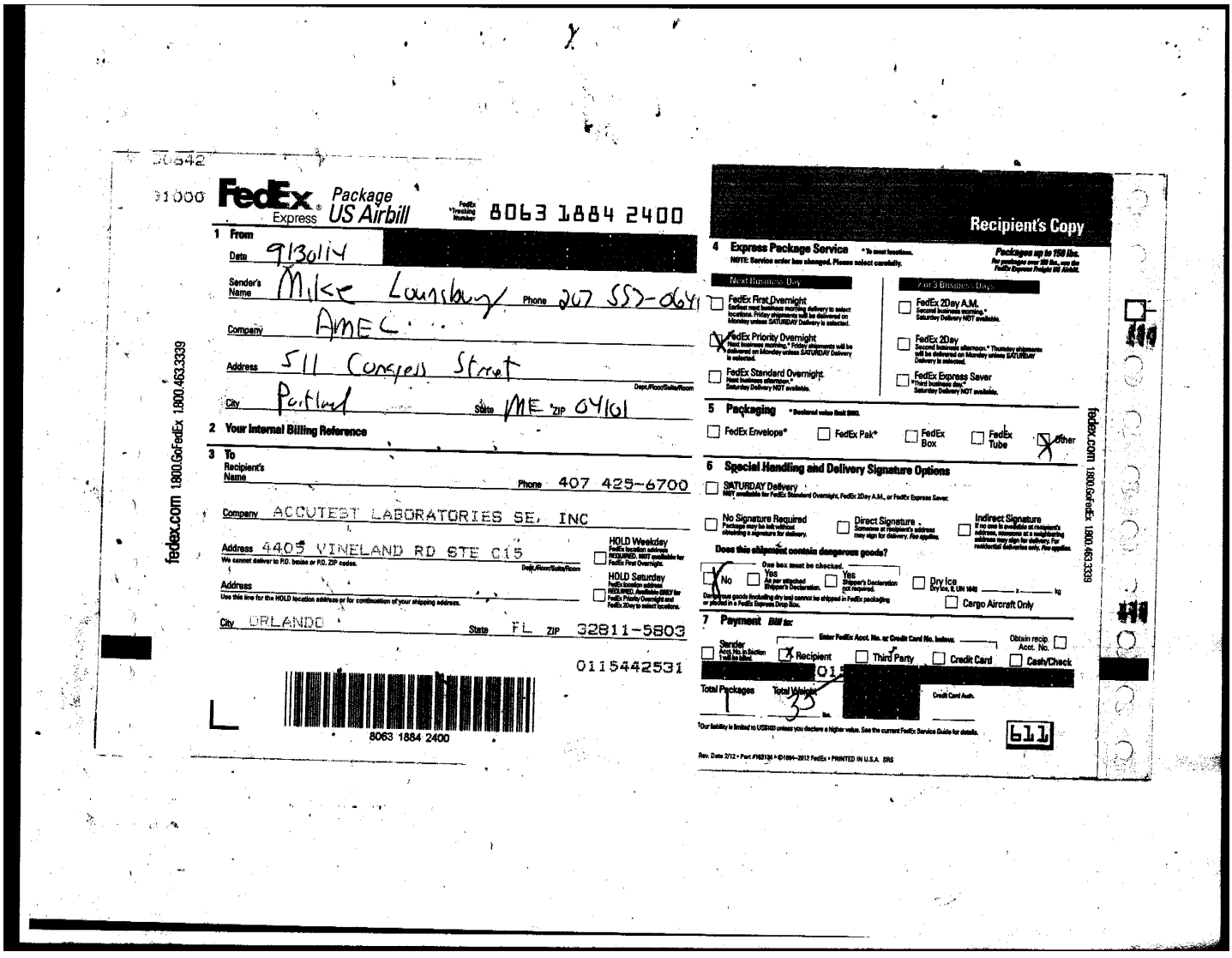
TECHNICIAN SIGNATURE/DATE: 10-01-14 REVIEWER SIGNATURE/DATE: 10-1-14

RS 04/14 receipt confirmation 041514.xls

5.1 5

FA18803: Chain of Custody

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FedEx Express Package US Airbill

FedEx Tracking Number 8063 1884 2400

1 From
Date 9/30/14
Sender's Name Mike Lounsbury Phone 207 553-0641
Company AMEC
Address 511 Congress Street
City Portland State ME ZIP 04101

2 Your Internal Billing Reference

3 To
Recipient's Name
Phone 407 425-6700
Company ACCUTEST LABORATORIES SE, INC
Address 4405 VINELAND RD STE C15
City ORLANDO State FL ZIP 32811-5803

0115442531

8063 1884 2400

Recipient's Copy

4 Express Package Service
Next Business Day
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
2 or 3 Business Days
FedEx 2Day A.M.
FedEx 2Day
FedEx Express Saver

5 Packaging
FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required
Direct Signature
Indirect Signature
Does this shipment contain dangerous goods?
No Yes Yes Dry Ice Cargo Aircraft Only

7 Payment
Sender Recipient Third Party Credit Card Cash/Check
Total Packages 1 Total Weight 33 lbs.

611

fedex.com 1.800.GoFedEx 1.800.463.3339

5.1

5

FA18803: Chain of Custody

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Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53432-MB	Q7283.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-3, FA18803-4, FA18803-5, FA18803-6, FA18803-7

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	13	5.0	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	25	10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	13	5.8	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	13	5.0	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	13	5.0	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	13	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	109%	70-130%
	13C2-PFDA	102%	70-130%

Method Blank Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-MB	Q7309.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-2

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	115%	70-130%
	13C2-PFDA	85%	70-130%

Method Blank Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53439-MB	Q7339.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-1, FA18803-8, FA18803-9, FA18803-10, FA18803-11, FA18803-12, FA18803-13, FA18803-14

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.040	0.016	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.020	0.0080	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	125%	70-130%
	13C2-PFDA	120%	70-130%

Blank Spike Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53432-BS	Q7284.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-3, FA18803-4, FA18803-5, FA18803-6, FA18803-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	100	82.7	83	70-130
335-67-1	Perfluorooctanoic acid	100	88.3	88	70-130
375-95-1	Perfluorononanoic acid	100	99.7	100	70-130
375-73-5	Perfluorobutanesulfonic acid	100	104	104	70-130
355-46-4	Perfluorohexanesulfonic acid	100	96.1	96	70-130
1763-23-1	Perfluorooctanesulfonic acid	100	90.9	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	101%	70-130%
	13C2-PFDA	93%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-BS	Q7308.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.159	99	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.165	103	70-130
375-95-1	Perfluorononanoic acid	0.16	0.170	106	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.194	121	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.168	105	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.113	71	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	130%	70-130%
	13C2-PFDA	89%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53439-BS	Q7338.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-1, FA18803-8, FA18803-9, FA18803-10, FA18803-11, FA18803-12, FA18803-13, FA18803-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.16	0.150	94	70-130
335-67-1	Perfluorooctanoic acid	0.16	0.162	101	70-130
375-95-1	Perfluorononanoic acid	0.16	0.169	106	70-130
375-73-5	Perfluorobutanesulfonic acid	0.16	0.201	126	70-130
355-46-4	Perfluorohexanesulfonic acid	0.16	0.180	113	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.16	0.154	96	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	136%* [a]	70-130%
	13C2-PFDA	129%	70-130%

(a) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53432-MS	Q7294.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
OP53432-MSD	Q7295.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247
FA18803-4	Q7293.D	1	10/07/14	NAF	10/07/14	OP53432	SQ247

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-3, FA18803-4, FA18803-5, FA18803-6, FA18803-7

CAS No.	Compound	FA18803-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	21 U		172	134	78	142	102	72	27	70-130/30
335-67-1	Perfluorooctanoic acid	42 U		172	146	85	142	111	78	27	70-130/30
375-95-1	Perfluorononanoic acid	21 U		172	166	96	142	127	90	27	70-130/30
375-73-5	Perfluorobutanesulfonic acid	21 U		172	160	93	142	126	89	24	70-130/30
355-46-4	Perfluorohexanesulfonic acid	21 U		172	159	92	142	123	87	26	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	21 U		172	148	86	142	116	82	24	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18803-4	Limits
	13C2-PFHxA	93%	92%	94%	70-130%
	13C2-PFDA	93%	88%	85%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53433-MS	Q7324.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248
OP53433-MSD	Q7325.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248
FA18740-6	Q7313.D	1	10/08/14	NAF	10/07/14	OP53433	SQ248
FA18740-6	Q7323.D	2	10/08/14	NAF	10/07/14	OP53433	SQ248

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-2

CAS No.	Compound	FA18740-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.0397		0.333	0.378	101	0.333	0.354	94	7	70-130/30
335-67-1	Perfluorooctanoic acid	0.0825		0.333	0.485	121	0.333	0.447	109	8	70-130/30
375-95-1	Perfluorononanoic acid	0.020 U		0.333	0.421	126	0.333	0.392	118	7	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.0111	J	0.333	0.433	127	0.333	0.403	118	7	70-130/30
355-46-4	Perfluorohexanesulfonic acid	0.286		0.333	0.799	154*	0.333	0.636	105	23	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.520 [a]		0.333	0.986	140*	0.333	0.862	103	13	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18740-6	FA18740-6	Limits
	13C2-PFHxA	138%* [b]	121%	120%	124%	70-130%
	13C2-PFDA	136%* [b]	112%	94%	106%	70-130%

(a) Result is from Run #2.
(b) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP53439-MS	Q7372.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250
OP53439-MSD	Q7373.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250
FA18803-9	Q7342.D	1	10/09/14	NAF	10/08/14	OP53439	SQ249
FA18803-9	Q7371.D	5	10/10/14	NAF	10/08/14	OP53439	SQ250

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA18803-1, FA18803-8, FA18803-9, FA18803-10, FA18803-11, FA18803-12, FA18803-13, FA18803-14

CAS No.	Compound	FA18803-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-85-9	Perfluoroheptanoic acid	0.0893		0.16	0.226	85	0.16	0.233	90	3	70-130/30
335-67-1	Perfluorooctanoic acid	0.413	b	0.16	0.460	29*	a 0.16	0.485	45*	a 5	70-130/30
375-95-1	Perfluorononanoic acid	0.020	U	0.16	0.173	108	0.16	0.176	110	2	70-130/30
375-73-5	Perfluorobutanesulfonic acid	0.0319		0.16	0.218	116	0.16	0.212	113	3	70-130/30
355-46-4	Perfluorohexanesulfonic acid	1.24	b	0.16	1.30	38*	a 0.16	1.38	87	6	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.188	b	0.16	0.433	153*	0.16	0.468	175*	8	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA18803-9	FA18803-9	Limits
	13C2-PFHxA	115%	118%	115%	136%* c	70-130%
	13C2-PFDA	87%	87%	103%	84%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ247-CC234	**Injection Date:**	10/07/14
Lab File ID:	Q7282.D	**Injection Time:**	14:54
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	39569	5.98	17258	6.58	27673	9.62
Upper Limit [c]	57426	6.98	22568	7.58	39822	10.62
Lower Limit [d]	19142	4.98	7523	5.58	13274	8.62

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53432-MB	41928	5.98	17822	6.58	27196	9.63
OP53432-BS	42047	5.98	18088	6.58	28641	9.62
ZZZZZZ	42904	5.98	17917	6.58	27957	9.62
ZZZZZZ	43706	5.98	18080	6.58	28571	9.63
ZZZZZZ	42012	5.98	17209	6.58	29605	9.62
ZZZZZZ	45241	5.98	18498	6.58	29979	9.62
ZZZZZZ	44000	5.98	18230	6.58	29555	9.62

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ247-CC234	**Injection Date:**	10/07/14
Lab File ID:	Q7290.D	**Injection Time:**	17:29
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	41302	6.00	17903	6.59	26209	9.66
Upper Limit [c]	57426	7.00	22568	7.59	39822	10.66
Lower Limit [d]	19142	5.00	7523	5.59	13274	8.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18803-3	44725	6.00	18475	6.59	31080	9.70
FA18803-4	39563	6.01	16583	6.61	29389	9.70
OP53432-MS	40818	6.00	17875	6.59	27105	9.71
OP53432-MSD	42591	6.00	18247	6.59	28297	9.69
FA18803-5	43071	6.00	18111	6.59	29442	9.70
FA18803-6	44207	6.00	18564	6.59	26822	9.69
FA18803-7	46039	6.00	19320	6.59	31930	9.69
SQ247-ECC234	44497	6.01	19497	6.59	25361	9.71

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ248-CC234	**Injection Date:**	10/08/14
Lab File ID:	Q7307.D	**Injection Time:**	10:33
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	38851	5.90	17120	6.47	25958	9.42
Upper Limit [c]	57426	6.90	22568	7.47	39822	10.42
Lower Limit [d]	19142	4.90	7523	5.47	13274	8.42

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53433-BS	39084	5.88	16433	6.47	26211	9.42
OP53433-MB	40601	5.88	16517	6.46	25215	9.40
FA18803-2	40940	5.88	16285	6.46	25736	9.41
FA18740-6	43601	5.87	17033	6.46	28584	9.38
ZZZZZZ	43656	5.87	16686	6.44	28487	9.38
ZZZZZZ	41099	5.87	14638	6.44	27351	9.37

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ248-CC234	**Injection Date:**	10/08/14
Lab File ID:	Q7318.D	**Injection Time:**	14:48
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	42325	5.87	17206	6.44	29281	9.38
Upper Limit [c]	57426	6.87	22568	7.44	39822	10.38
Lower Limit [d]	19142	4.87	7523	5.44	13274	8.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
ZZZZZZ	44966	5.87	16722	6.44	30988	9.38
ZZZZZZ	45148	5.86	16563	6.44	30633	9.35
ZZZZZZ	41995	5.87	15673	6.44	28881	9.38
FA18740-6	44187	5.87	17030	6.44	29276	9.38
OP53433-MS	39567	5.90	15474	6.49	26512	9.62
OP53433-MSD	43711	5.90	17098	6.49	28620	9.63
ZZZZZZ	45959	5.90	17303	6.49	28665	9.63
ZZZZZZ	45422	5.90	17398	6.49	28649	9.65
ZZZZZZ	46928	5.90	17689	6.49	29392	9.66
ZZZZZZ	47832	5.90	17915	6.49	29880	9.66

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ249-CC234	**Injection Date:**	10/09/14
Lab File ID:	Q7337.D	**Injection Time:**	16:37
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	35261	5.90	16769	6.49	26820	9.60
Upper Limit [c]	57426	6.90	22568	7.49	39822	10.60
Lower Limit [d]	19142	4.90	7523	5.49	13274	8.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
OP53439-BS	34892	5.90	15958	6.49	26231	9.60
OP53439-MB	38895	5.91	17602	6.49	28515	9.60
FA18803-1	36206	5.91	16314	6.51	26539	9.60
FA18803-8	37606	5.90	17134	6.49	28257	9.58
FA18803-9	35376	5.91	16316	6.51	27550	9.61
FA18803-10	35651	5.91	16263	6.51	27482	9.62
FA18803-11	37695	5.91	16520	6.51	27999	9.62
FA18803-12	37222	5.91	16796	6.51	28501	9.62

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ249-CC234	**Injection Date:**	10/09/14
Lab File ID:	Q7348.D	**Injection Time:**	20:10
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	40639	5.92	18408	6.52	30877	9.63
Upper Limit [c]	57426	6.92	22568	7.52	39822	10.63
Lower Limit [d]	19142	4.92	7523	5.52	13274	8.63

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18803-13	41622	5.92	17930	6.52	30417	9.62
FA18803-14	40746	5.91	18750	6.52	32910	9.63
ZZZZZZ	43118	5.92	18894	6.52	30743	9.63
ZZZZZZ	37391	5.91	16983	6.52	28619	9.63

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ250-CC234	**Injection Date:**	10/10/14
Lab File ID:	Q7368.D	**Injection Time:**	10:21
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	34168	5.87	16458	6.44	27206	9.48
Upper Limit [c]	57426	6.87	22568	7.44	39822	10.48
Lower Limit [d]	19142	4.87	7523	5.44	13274	8.48

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18803-8	36932	5.86	16862	6.43	27546	9.45
FA18803-9	31942	5.86	17086	6.42	28266	9.45
OP53439-MS	38578	5.86	16913	6.42	28383	9.43
OP53439-MSD	36674	5.86	16303	6.42	27837	9.43
FA18803-10	37606	5.86	16508	6.42	28255	9.43
FA18803-11	36245	5.86	15918	6.42	27419	9.43
FA18803-14	36960	5.85	16144	6.42	28318	9.42
SQ250-ECC234	35078	5.85	15748	6.41	27682	9.42

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Check Std:	SQ251-CC234	**Injection Date:**	10/13/14
Lab File ID:	Q7384.D	**Injection Time:**	10:07
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	38284	5.85	15045	6.39	26548	8.96
Check Std [b]	32184	5.91	17113	6.51	23355	9.76
Upper Limit [c]	57426	6.91	22568	7.51	39822	10.76
Lower Limit [d]	19142	4.91	7523	5.51	13274	8.76

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
FA18803-12	34342	5.91	17419	6.49	23600	9.75
ZZZZZZ	33031	5.90	16411	6.49	23267	9.73
ZZZZZZ	34884	5.90	17463	6.49	24923	9.73
ZZZZZZ	34577	5.90	17242	6.48	25313	9.72
OP53456-BS	29786	5.88	14704	6.48	24276	9.70
OP53456-MB	29565	5.88	14638	6.48	22670	9.69
ZZZZZZ	32007	5.87	14536	6.47	25158	9.69
ZZZZZZ	29831	5.88	13641	6.48	23908	9.79
ZZZZZZ	31673	5.88	15978	6.48	25983	9.61

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = 13C2-PFDoDA

(a) Initial Cal is: SQ234-ICC234 Q6939.D 09/12/14 13:11. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Surrogate Recovery Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18803-1	Q7340.D	122	110
FA18803-2	Q7311.D	121	93
FA18803-8	Q7370.D	114	91
FA18803-8	Q7341.D	109	100
FA18803-9	Q7371.D	136* [a]	84
FA18803-9	Q7342.D	115	103
FA18803-10	Q7374.D	116	87
FA18803-10	Q7345.D	117	108
FA18803-11	Q7375.D	130	97
FA18803-11	Q7346.D	114	111
FA18803-12	Q7385.D	121	116
FA18803-12	Q7347.D	109	100
FA18803-13	Q7350.D	119	113
FA18803-14	Q7377.D	123	95
FA18803-14	Q7351.D	115	104
OP53433-BS	Q7308.D	130	89
OP53433-MB	Q7309.D	115	85
OP53433-MS	Q7324.D	138* [b]	136* [b]
OP53433-MSD	Q7325.D	121	112
OP53439-BS	Q7338.D	136* [b]	129
OP53439-MB	Q7339.D	125	120
OP53439-MS	Q7372.D	115	87
OP53439-MSD	Q7373.D	118	87

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

(a) Outside control limits due to dilution.
(b) Outside control limits.

Semivolatile Surrogate Recovery Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Method: EPA 537 MOD **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA18803-3	Q7292.D	96	86
FA18803-4	Q7293.D	94	85
FA18803-5	Q7296.D	96	89
FA18803-6	Q7297.D	97	97
FA18803-7	Q7298.D	95	83
OP53432-BS	Q7284.D	101	93
OP53432-MB	Q7283.D	109	102
OP53432-MS	Q7294.D	93	93
OP53432-MSD	Q7295.D	92	88

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

Initial Calibration Summary

Job Number: FA18803 **Sample:** SQ234-ICC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6939.D
Project: Plattsburgh AFB; Plattsburgh, NY

Initial Calibration ReSponse Factors - D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID : Calibration File
1 : D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2 : D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3 : D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4 : D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5 : D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6 : D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7 : D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Compound	1	2	3	4	5	6	7	AvgRF	%RSD	r^2
2) 13C2-PFDoDA	----------ISTD----------									
1) 13C2-PFDA	1.4694	1.2705	1.3641	1.3573	1.2782	1.1995	1.1677	1.3010	8.002	0.9925
8) PFDA	1.3529	1.1705	1.2774	1.2682	1.2016	1.1239	1.0824	1.2110	7.811	0.9913
9) PFDoDA	0.9528	0.9350	0.8811	0.8914	0.8903	0.8623	0.8657	0.8969	3.827	0.9994
10) PFDS	0.2240	0.2180	0.2018	0.2025	0.1985	0.1920	0.1929	0.2043	5.996	0.9989
19) PFTeDA	0.7532	0.6581	0.5739	0.5913	0.5950	0.5845	0.5932	0.6213	10.333	0.9994
20) PFTrDA	0.8594	0.8431	0.7924	0.7963	0.7967	0.7777	0.7789	0.8063	3.964	0.9999
21) PFUnDA	1.4969	1.2243	1.1198	1.0728	1.0513	1.0110	1.0658	1.1489	14.603	0.9948
4) 13C2-PFOA	----------ISTD----------									
3) 13C2-PFHxA	0.3285	0.3294	0.3113	0.3056	0.3013	0.2929	0.2943	0.3090	4.856	0.9992
6) PFBA	0.2472	0.2443	0.2374	0.2319	0.2354	0.2301	0.2321	0.2369	2.771	0.9998
11) PFHpA	0.4292	0.3812	0.3486	0.3311	0.3247	0.3126	0.3091	0.3481	12.464	0.9994
13) PFHxA	0.3782	0.3737	0.3488	0.3465	0.3428	0.3331	0.3339	0.3510	5.150	0.9992
15) PFNA	0.5906	0.5169	0.4639	0.4647	0.4599	0.4509	0.4500	0.4853	10.660	0.9996
16) PFOA	1.3992	1.1606	1.0285	1.0005	0.9828	0.9625	0.9647	1.0713	14.922	0.9959
18) PFPeA	0.1233	0.1212	0.1155	0.1139	0.1149	0.1115	0.1146	0.1164	3.645	0.9995
5) 13C4-PFOS	----------ISTD----------									
7) PFBS	0.4070	0.3735	0.3399	0.3254	0.3260	0.3064	0.3165	0.3421	10.450	0.9975
12) PFHpS	0.6380	0.6341	0.6144	0.5989	0.6054	0.5816	0.5927	0.6093	3.437	0.9993
14) PFHxS	0.6360	0.5636	0.5422	0.5072	0.5081	0.4775	0.4990	0.5334	10.027	0.9974
17) PFOS	1.3645	1.1081	1.0077	0.9890	0.9834	0.9433	0.9543	1.0500	14.167	0.9965

*(value) - Average RF below (value)

Initial Calibration Verification

Job Number: FA18803 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6944.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6944
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	# -100.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	# -100.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.367	1.8	101.8
PFBS	20.000	21.501	7.5	107.5
PFDA	20.000	21.272	6.4	106.4
PFDoDA	20.000	21.331	6.7	106.7
PFDS	20.000	21.521	7.6	107.6
PFHpA	20.000	20.021	0.1	100.1
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	20.765	3.8	103.8
PFHxS	20.000	21.704	8.5	108.5
PFNA	20.000	20.123	0.6	100.6
PFOA	20.000	20.065	0.3	100.3
PFOS	20.000	20.717	3.6	103.6
PFPeA	20.000	20.410	2.1	102.1
PFTeDA	20.000	22.398	12.0	112.0
PFTrDA	20.000	20.605	3.0	103.0
PFUnDA	20.000	20.271	1.4	101.4

CC Criteria: +/- 25%

Initial Calibration Verification

Job Number: FA18803 **Sample:** SQ234-ICV234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q6945.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\0912_PFC_SQ234\SQ234.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q6945
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	0.000	0.0	0.0
PFBS	20.000	24.861	24.3	124.3
PFDA	20.000	0.000	0.0	0.0
PFDoDA	20.000	0.000	0.0	0.0
PFDS	20.000	0.000	0.0	0.0
PFHpA	20.000	18.993	-5.0	95.0
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	0.000	0.0	0.0
PFHxS	20.000	23.899	19.5	119.5
PFNA	20.000	21.584	7.9	107.9
PFOA	20.000	19.090	-4.5	95.5
PFOS	20.000	20.549	2.7	102.7
PFPeA	20.000	0.000	0.0	0.0
PFTeDA	20.000	0.000	0.0	0.0
PFTrDA	20.000	0.000	0.0	0.0
PFUnDA	20.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ247-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7282.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1007_PFC_SQ247\sq247.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7282
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.262	-3.7	96.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.647	3.2	103.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.789	8.9	108.9
PFBS	20.000	19.758	-1.2	98.8
PFDA	20.000	18.654	-6.7	93.3
PFDoDA	20.000	22.187	10.9	110.9
PFDS	20.000	25.145	# 25.7	125.7
PFHpA	20.000	20.292	1.5	101.5
PFHpS	20.000	20.342	1.7	101.7
PFHxA	20.000	21.483	7.4	107.4
PFHxS	20.000	19.902	-0.5	99.5
PFNA	20.000	21.163	5.8	105.8
PFOA	20.000	20.764	3.8	103.8
PFOS	20.000	20.478	2.4	102.4
PFPeA	20.000	22.358	11.8	111.8
PFTeDA	20.000	19.213	-3.9	96.1
PFTrDA	20.000	23.252	16.3	116.3
PFUnDA	20.000	16.895	-15.5	84.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ247-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7290.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1007_PFC_SQ247\sq247.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7290
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	21.592	8.0	108.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.594	-2.0	98.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.406	7.0	107.0
PFBS	20.000	19.220	-3.9	96.1
PFDA	20.000	19.974	-0.1	99.9
PFDoDA	20.000	22.204	11.0	111.0
PFDS	20.000	24.778	23.9	123.9
PFHpA	20.000	19.694	-1.5	98.5
PFHpS	20.000	20.427	2.1	102.1
PFHxA	20.000	20.576	2.9	102.9
PFHxS	20.000	19.749	-1.3	98.7
PFNA	20.000	21.955	9.8	109.8
PFOA	20.000	20.635	3.2	103.2
PFOS	20.000	20.346	1.7	101.7
PFPeA	20.000	21.755	8.8	108.8
PFTeDA	20.000	16.648	-16.8	83.2
PFTrDA	20.000	22.031	10.2	110.2
PFUnDA	20.000	17.427	-12.9	87.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ247-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7302.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1007_PFC_SQ247\sq247.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7302
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	22.220	11.1	111.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.011	-4.9	95.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.801	9.0	109.0
PFBS	20.000	19.193	-4.0	96.0
PFDA	20.000	19.465	-2.7	97.3
PFDoDA	20.000	22.162	10.8	110.8
PFDS	20.000	23.987	19.9	119.9
PFHpA	20.000	19.599	-2.0	98.0
PFHpS	20.000	19.993	0.0	100.0
PFHxA	20.000	20.208	1.0	101.0
PFHxS	20.000	19.332	-3.3	96.7
PFNA	20.000	22.035	10.2	110.2
PFOA	20.000	20.456	2.3	102.3
PFOS	20.000	20.241	1.2	101.2
PFPeA	20.000	22.198	11.0	111.0
PFTeDA	20.000	22.037	10.2	110.2
PFTrDA	20.000	26.286	# 31.4	131.4
PFUnDA	20.000	17.822	-10.9	89.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7307.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7307
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	15.308	-23.5	76.5
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	22.176	10.9	110.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.709	3.5	103.5
PFBS	20.000	19.639	-1.8	98.2
PFDA	20.000	16.591	-17.0	83.0
PFDoDA	20.000	20.965	4.8	104.8
PFDS	20.000	30.569	# 52.8	152.8
PFHpA	20.000	21.590	8.0	108.0
PFHpS	20.000	20.604	3.0	103.0
PFHxA	20.000	22.021	10.1	110.1
PFHxS	20.000	20.146	0.7	100.7
PFNA	20.000	20.247	1.2	101.2
PFOA	20.000	20.717	3.6	103.6
PFOS	20.000	20.602	3.0	103.0
PFPeA	20.000	24.164	20.8	120.8
PFTeDA	20.000	19.075	-4.6	95.4
PFTrDA	20.000	23.122	15.6	115.6
PFUnDA	20.000	23.653	18.3	118.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7318.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7318
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.026	-9.9	90.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.248	6.2	106.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.177	5.9	105.9
PFBS	20.000	20.824	4.1	104.1
PFDA	20.000	19.026	-4.9	95.1
PFDoDA	20.000	20.519	2.6	102.6
PFDS	20.000	25.590	# 27.9	127.9
PFHpA	20.000	20.098	0.5	100.5
PFHpS	20.000	21.164	5.8	105.8
PFHxA	20.000	21.300	6.5	106.5
PFHxS	20.000	20.421	2.1	102.1
PFNA	20.000	21.619	8.1	108.1
PFOA	20.000	20.652	3.3	103.3
PFOS	20.000	20.728	3.6	103.6
PFPeA	20.000	23.493	17.5	117.5
PFTeDA	20.000	19.827	-0.9	99.1
PFTrDA	20.000	21.150	5.7	105.7
PFUnDA	20.000	16.584	-17.1	82.9

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ248-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7330.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1008_PFC_SQ248\sq248.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7330
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	23.603	18.0	118.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	20.691	3.5	103.5
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.661	3.3	103.3
PFBS	20.000	19.707	-1.5	98.5
PFDA	20.000	25.457	# 27.3	127.3
PFDoDA	20.000	24.799	24.0	124.0
PFDS	20.000	25.885	# 29.4	129.4
PFHpA	20.000	19.948	-0.3	99.7
PFHpS	20.000	20.464	2.3	102.3
PFHxA	20.000	20.932	4.7	104.7
PFHxS	20.000	20.345	1.7	101.7
PFNA	20.000	22.137	10.7	110.7
PFOA	20.000	20.820	4.1	104.1
PFOS	20.000	20.594	3.0	103.0
PFPeA	20.000	22.288	11.4	111.4
PFTeDA	20.000	19.359	-3.2	96.8
PFTrDA	20.000	25.721	# 28.6	128.6
PFUnDA	20.000	19.726	-1.4	98.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ249-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7337.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1009_PFC_SQ249\SQ249.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7337
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.083	-4.6	95.4
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.780	8.9	108.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.986	19.9	119.9
PFBS	20.000	20.473	2.4	102.4
PFDA	20.000	20.371	1.9	101.9
PFDoDA	20.000	21.482	7.4	107.4
PFDS	20.000	24.981	24.9	124.9
PFHpA	20.000	19.842	-0.8	99.2
PFHpS	20.000	19.719	-1.4	98.6
PFHxA	20.000	21.623	8.1	108.1
PFHxS	20.000	19.563	-2.2	97.8
PFNA	20.000	19.683	-1.6	98.4
PFOA	20.000	20.024	0.1	100.1
PFOS	20.000	19.674	-1.6	98.4
PFPeA	20.000	22.772	13.9	113.9
PFTeDA	20.000	18.478	-7.6	92.4
PFTrDA	20.000	21.602	8.0	108.0
PFUnDA	20.000	16.455	-17.7	82.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ249-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7348.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1009_PFC_SQ249\SQ249.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7348
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	20.757	3.8	103.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.436	-2.8	97.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.687	8.4	108.4
PFBS	20.000	19.373	-3.1	96.9
PFDA	20.000	21.959	9.8	109.8
PFDoDA	20.000	21.438	7.2	107.2
PFDS	20.000	24.713	23.6	123.6
PFHpA	20.000	18.922	-5.4	94.6
PFHpS	20.000	20.019	0.1	100.1
PFHxA	20.000	19.474	-2.6	97.4
PFHxS	20.000	19.277	-3.6	96.4
PFNA	20.000	21.132	5.7	105.7
PFOA	20.000	19.783	-1.1	98.9
PFOS	20.000	19.721	-1.4	98.6
PFPeA	20.000	21.115	5.6	105.6
PFTeDA	20.000	18.287	-8.6	91.4
PFTrDA	20.000	21.655	8.3	108.3
PFUnDA	20.000	16.909	-15.5	84.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ249-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7355.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1009_PFC_SQ249\SQ249.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7355
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	20.098	0.5	100.5
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.631	-1.8	98.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	21.769	8.8	108.8
PFBS	20.000	19.158	-4.2	95.8
PFDA	20.000	20.776	3.9	103.9
PFDoDA	20.000	21.364	6.8	106.8
PFDS	20.000	24.581	22.9	122.9
PFHpA	20.000	18.916	-5.4	94.6
PFHpS	20.000	19.652	-1.7	98.3
PFHxA	20.000	19.523	-2.4	97.6
PFHxS	20.000	19.034	-4.8	95.2
PFNA	20.000	21.309	6.5	106.5
PFOA	20.000	19.539	-2.3	97.7
PFOS	20.000	19.444	-2.8	97.2
PFPeA	20.000	20.917	4.6	104.6
PFTeDA	20.000	18.096	-9.5	90.5
PFTrDA	20.000	21.748	8.7	108.7
PFUnDA	20.000	17.027	-14.9	85.1

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ250-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7368.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1010_PFC_SQ250\SQ250.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7368
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.183	-19.1	80.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	22.211	11.1	111.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	25.383	# 26.9	126.9
PFBS	20.000	21.006	5.0	105.0
PFDA	20.000	15.580	-22.1	77.9
PFDoDA	20.000	21.846	9.2	109.2
PFDS	20.000	28.537	# 42.7	142.7
PFHpA	20.000	21.301	6.5	106.5
PFHpS	20.000	21.092	5.5	105.5
PFHxA	20.000	22.267	11.3	111.3
PFHxS	20.000	20.707	3.5	103.5
PFNA	20.000	21.202	6.0	106.0
PFOA	20.000	21.291	6.5	106.5
PFOS	20.000	20.838	4.2	104.2
PFPeA	20.000	24.066	20.3	120.3
PFTeDA	20.000	15.330	-23.3	76.7
PFTrDA	20.000	21.448	7.2	107.2
PFUnDA	20.000	29.897	# 49.5	149.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ250-ECC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7379.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1010_PFC_SQ250\SQ250.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7379
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.257	-3.7	96.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.332	6.7	106.7
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	24.156	20.8	120.8
PFBS	20.000	20.927	4.6	104.6
PFDA	20.000	14.757	# -26.2	73.8
PFDoDA	20.000	22.300	11.5	111.5
PFDS	20.000	26.327	# 31.6	131.6
PFHpA	20.000	20.906	4.5	104.5
PFHpS	20.000	20.776	3.9	103.9
PFHxA	20.000	21.056	5.3	105.3
PFHxS	20.000	20.604	3.0	103.0
PFNA	20.000	23.500	17.5	117.5
PFOA	20.000	21.306	6.5	106.5
PFOS	20.000	21.071	5.4	105.4
PFPeA	20.000	22.352	11.8	111.8
PFTeDA	20.000	18.274	-8.6	91.4
PFTrDA	20.000	25.675	# 28.4	128.4
PFUnDA	20.000	18.850	-5.7	94.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7384.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7384
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	24.673	23.4	123.4
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	22.190	11.0	111.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.549	17.7	117.7
PFBS	20.000	20.025	0.1	100.1
PFDA	20.000	26.748	# 33.7	133.7
PFDoDA	20.000	22.221	11.1	111.1
PFDS	20.000	30.767	# 53.8	153.8
PFHpA	20.000	20.437	2.2	102.2
PFHpS	20.000	19.820	-0.9	99.1
PFHxA	20.000	21.972	9.9	109.9
PFHxS	20.000	19.690	-1.6	98.4
PFNA	20.000	21.980	9.9	109.9
PFOA	20.000	20.871	4.4	104.4
PFOS	20.000	20.354	1.8	101.8
PFPeA	20.000	23.411	17.1	117.1
PFTeDA	20.000	15.077	-24.6	75.4
PFTrDA	20.000	17.328	-13.4	86.6
PFUnDA	20.000	16.800	-16.0	84.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA18803 **Sample:** SQ251-CC234
Account: AMECORP AMEC Environment & Infrastructure, Inc. **Lab FileID:** Q7395.D
Project: Plattsburgh AFB; Plattsburgh, NY

Continuing Calibration Report

Batch: D:\MassHunter\Data\1013_PFC_SQ251\SQ251.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0912_PFC_SQ234\Q6936.d
2:D:\MassHunter\Data\0912_PFC_SQ234\Q6937.d
3:D:\MassHunter\Data\0912_PFC_SQ234\Q6938.d
4:D:\MassHunter\Data\0912_PFC_SQ234\Q6939.d
5:D:\MassHunter\Data\0912_PFC_SQ234\Q6940.d
6:D:\MassHunter\Data\0912_PFC_SQ234\Q6941.d
7:D:\MassHunter\Data\0912_PFC_SQ234\Q6942.d

Data File: Q7395
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	21.563	7.8	107.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.051	5.3	105.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.845	19.2	119.2
PFBS	20.000	20.868	4.3	104.3
PFDA	20.000	23.458	17.3	117.3
PFDoDA	20.000	22.539	12.7	112.7
PFDS	20.000	26.178	# 30.9	130.9
PFHpA	20.000	20.314	1.6	101.6
PFHpS	20.000	20.146	0.7	100.7
PFHxA	20.000	21.048	5.2	105.2
PFHxS	20.000	20.048	0.2	100.2
PFNA	20.000	23.147	15.7	115.7
PFOA	20.000	20.732	3.7	103.7
PFOS	20.000	20.317	1.6	101.6
PFPeA	20.000	22.627	13.1	113.1
PFTeDA	20.000	18.276	-8.6	91.4
PFTrDA	20.000	21.230	6.2	106.2
PFUnDA	20.000	17.121	-14.4	85.6

CC Criteria: +/- 25%

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA18803
Account: AMECORP AMEC Environment & Infrastructure, Inc.
Project: Plattsburgh AFB; Plattsburgh, NY

Sample: FA18803-3 **Analyzed:** 09-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SD-001

Wet Weight (Total)	7.59	g
Tare Weight	1.08	g
Dry Weight (Total)	6.33	g
Solids, Percent	80.7	%

Sample: FA18803-4 **Analyzed:** 09-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SD-002

Wet Weight (Total)	6.03	g
Tare Weight	1.01	g
Dry Weight (Total)	3.89	g
Solids, Percent	57.4	%

Sample: FA18803-5 **Analyzed:** 09-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SD-003

Wet Weight (Total)	6.57	g
Tare Weight	.98	g
Dry Weight (Total)	3.72	g
Solids, Percent	49	%

Sample: FA18803-6 **Analyzed:** 09-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SD-004

Wet Weight (Total)	7.33	g
Tare Weight	1.03	g
Dry Weight (Total)	6.1	g
Solids, Percent	80.5	%

Sample: FA18803-7 **Analyzed:** 09-OCT-14 by LE **Method:** SM19 2540G
ClientID: PLTSB-SD-005

Wet Weight (Total)	8.05	g
Tare Weight	1.06	g
Dry Weight (Total)	6.54	g
Solids, Percent	78.4	%