



REPORT

SITE ASSESSMENT REPORT

*Miami Dade College Fire Training Facility
3180 NW 119th Street, Miami-Dade County, Florida
DEP Facility ID Number: ERIC_7421*

Submitted to:

Florida Department of Environmental Protection

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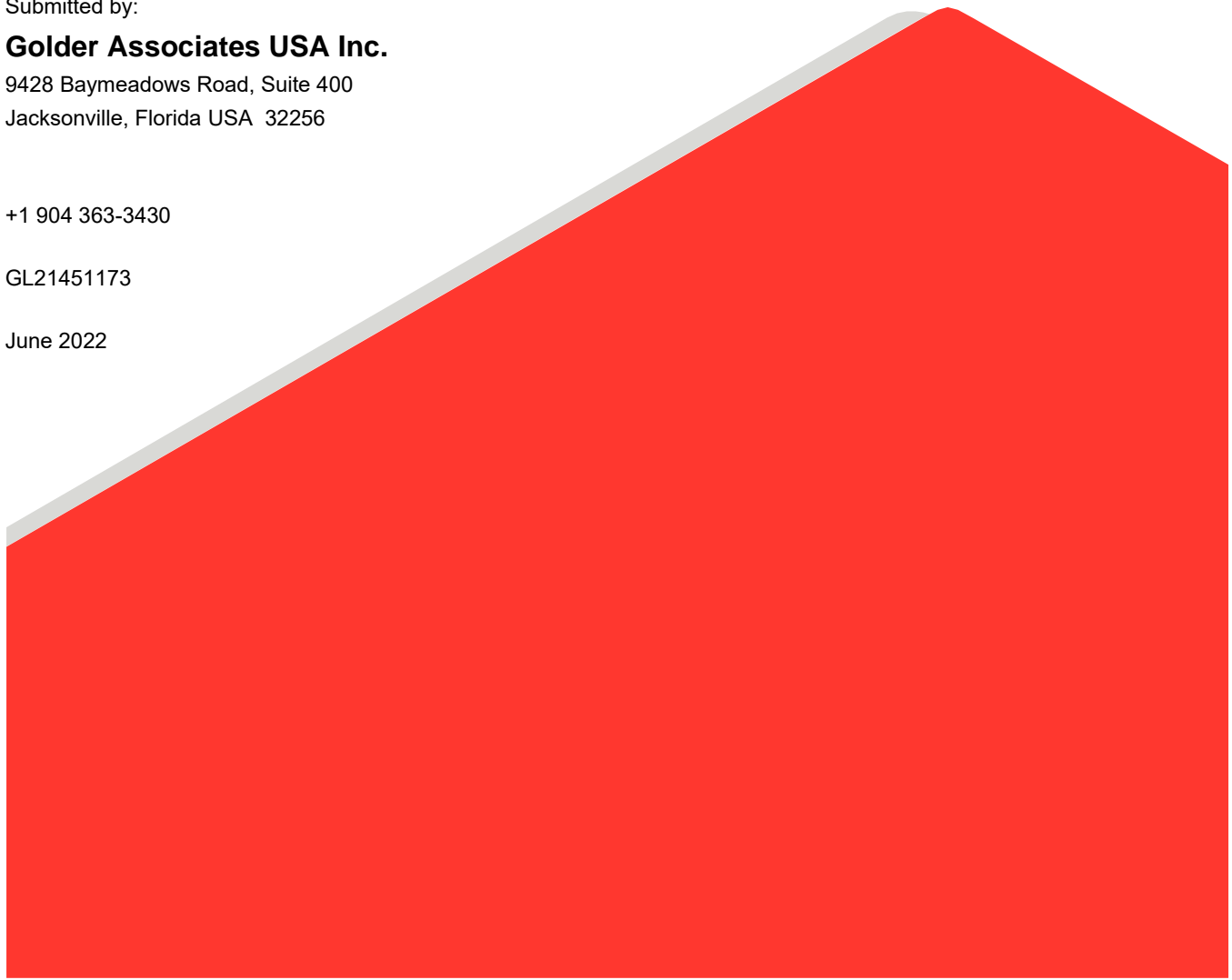
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GL21451173

June 2022



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1.0 INTRODUCTION

Golder Associates USA Inc. (Golder) has prepared this Site Assessment Report for the Florida Department of Environmental Protection's (FDEP) Site Investigation Section (SIS) to document the site assessment activities and analytical results associated with the Miami Dade College Fire Training Facility Per- and Polyfluoroalkyl Substances (PFAS) Study in Miami, Miami-Dade County, Florida. The purpose of the investigation was to determine if there are additional subsurface impacts at the site beyond the areas identified in the Terracon investigation, and to evaluate other potential sources of PFAS at the Miami Dade College Fire Academy located in Miami, Miami-Dade County, Florida. This work was conducted under FDEP contract number HW561, task assignment number SOL-0A135. Services were performed in accordance with the FDEP-approved task assignment and Chapter 62-780 of the Florida Administrative Code (FAC).

2.0 BACKGROUND INFORMATION

2.1 Site Location and Description

The site is located at 3180 NW 119th Street in Miami, Miami-Dade County, Florida, in Section 33, Township 52 South, and Range 41 East, within the area mapped by the U.S. Geological Survey (USGS) Opa-Locka, Florida, North Miami, Florida, Hialeah, Florida, and Miami, Florida, 7.5-minute topographic quadrangle map (Figure 1). The site is located at 25 degrees, 52 minutes, 55 seconds north latitude and 80 degrees, 15 minutes, 3 seconds west longitude.

The site is approximately 230 contiguous acres that make up the Miami Dade College North Campus located at 11380 NW 27th Avenue, Miami, Florida. The primary area of investigation is the approximately 2-acre Miami-Dade College Fire Training Facility located in the northwest corner of the Miami-Dade College North Campus and is located at 3180 NW 119th Street at the southeast corner of the intersection of NW 119th Street and NW 32nd Avenue Boulevard. The Miami-Dade College North Campus consists of 23 buildings used for administration, instruction, recreation, and various other uses, multiple paved parking areas, and maintained outdoor recreation areas/greenspaces. The fire training facility consists of the Fire Science Lab building used for instruction, the Fire Science Tower used for training, and a shed used for storage. The remainder of the fire training facility primarily consists of paved areas used for training and parking. Stormwater features in the site vicinity include an approximately 3.25-acre pond in the central portion of the campus, the Little River Canal which runs east-west directly south of the campus, and various infiltration stormwater features on the fire training facility.

The campus can be accessed via NW 119th Street to the north, NW 27th Avenue to the east, South Perimeter Road to the south, and NW 32nd Avenue to the west. The site is surrounded primarily by industrial and commercial properties to the north, an Army Reserve center followed by commercial and residential properties to the east, the Little River Canal followed by residential properties to the south, and industrial properties to the west. The site plan is shown on Figure 2.

2.2 Environmental Setting

2.2.1 Physiography and Topography

The Little River Canal is the nearest surface water feature, located about 1/2 mile east/southeast of the fire training facility and is oriented in an east-west direction, flowing from west to east. The ground surface at the site is flat with a general topographic gradient in an east/southeast direction and an approximate ground surface elevation of 7 feet mean sea level (msl). The paved surface on the property slopes south.

2.2.2 Regional Hydrogeology

Three distinct hydrogeologic units can be defined within the stratigraphic units underlying Dade County. They include the unconfined upper surficial aquifer known as the Biscayne Aquifer, the intermediate confining unit, and the Floridan aquifer. The unconfined Biscayne Aquifer system in the vicinity of the site is generally composed of limestones, sandstones, sand, shell, and clayey sand with minor clay or silt, and range in age from Pliocene to Holocene. In some areas near the base of the surficial aquifer, a semiconfining unit is present that consists of sand or clayey sand. The surficial aquifer unit is approximately 175 to 270 feet thick, typically deeper moving east towards Biscayne Bay. In many areas, such as the vicinity of the site, the surficial aquifer produces sufficient groundwater to support local private and public use wells. However, close to the coast, groundwater quality can be degraded by elevated salinity. Based on historical groundwater investigations at the site, the average depth-to-water is approximately 5 feet below ground surface (bgs).

Below the surficial aquifer exists a 550- to 800-foot-thick sequence consisting of green clay, silt, limestone, and fine sand, referred to as the intermediate confining unit. Some minor aquifers may exist in this zone, but in general, the sediments have relatively low permeability. Most of this sequence is included in the Miocene Age Hawthorn Formation, but the upper most sediments of the sequence locally may be part of the Tamiami Formation (Miocene/Pliocene Age). The top of the intermediate confining unit occurs at a depth between -175 and -270 feet msl in the vicinity of the site. The intermediate confining unit restricts the vertical movement of groundwater between the overlying surficial aquifer system and the underlying Floridan aquifer system.

The Floridan aquifer system in southeast Florida is of Eocene to Oligocene Age and consists of limestone and dolomite. Two permeable zones, the Upper and Lower Floridan aquifers, are separated by a confining unit. The top of the Upper Floridan aquifer is approximately -950 feet msl in the vicinity of the site.

2.3 Site History

2.3.1 Operational History

The site is currently occupied by Miami Dade College which has operated on the property since approximately 1960. The Fire Science Program began operations in its current location in approximately 1983. Prior to the current use, the site was used as an airfield from approximately 1930 until at least 1956 (unknown use prior to 1930). According to documents reviewed, the airfield was known by the name All-American Field/Airport from approximately 1930 to approximately 1942 when the name was changed to Master Field. Master Field was occupied and operated by the United States Navy and was developed with a hangar, multiple barracks, a control tower, and several support structures. Ownership of the airfield was transferred to the State of Florida around 1960 when Miami Dade College began operations on the property. Several features of Master Airfield are visible on the present-day campus (e.g., former runways used as parking lots and the repurposing of the former hangar). The area of the present-day fire training facility is at the northeast intersection of the three main runways of the former Master Field. Site history at the fire training facility includes reported regular training with fire-retardant materials, such as aqueous film-forming foam (AFFF).

2.3.2 Historical Environmental Assessments

Terracon completed limited soil and groundwater assessment activities in the area the fire training facility in 2019 and 2020. The purpose of the limited assessment was to screen soil and groundwater for the presence of PFAS, based on the site's reported usage of fire-retardant materials such as AFFF. Terracon initially advanced seven soil borings to 2 feet bgs and installed seven temporary monitoring wells to 15 feet bgs in the immediate vicinity of the former AFFF training area. At each soil boring location, soil samples were collected for analysis from 0 to 0.5 feet bgs and 0.5 to 2.0 feet bgs. The results of the sampling event indicated that perfluoro-n-octanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) concentrations in soil samples were above FDEP Provisional Soil Cleanup Target Levels (PSCTLs) for leachability from four of the seven soil borings located near a former AFFF training area. The leachability PSCTL is 2 micrograms per kilogram ($\mu\text{g}/\text{kg}$) for PFOA and is 7 $\mu\text{g}/\text{kg}$ for PFOS. The concentrations were, however, below the PSCTLs for residential direct exposure (1,300 $\mu\text{g}/\text{kg}$). PFOA and/or PFOS concentrations in all seven groundwater samples collected from temporary monitoring wells in the vicinity of the AFFF training area were also above Provisional Groundwater Cleanup Target Levels (PGCTLs) of 70 nanograms/Liter (ng/L). The 70 ng/L PGCTL is for either PFOA or PFOS individually or combined.

Terracon installed four permanent shallow monitoring wells to 17 feet bgs, and one permanent deep monitoring well to 35 feet bgs as part of the limited assessment. Terracon conducted two groundwater monitoring events in December 2019 and February 2020. Laboratory analytical results from the December 2019 sampling event

indicated that the sum of PFOS/PFOA was above the PGCTL in one shallow monitoring well (MW-1W) and the deep monitoring well DMW-1. Notably, the sum of PFOS/PFOA concentration in the sample from the deep monitoring well was 2,070 ng/L. Laboratory analytical results from the February 2020 sampling event indicated that the sum of PFOS/PFOA was above the PGCTL in the deep monitoring well (650 ng/L).

The FDEP SIS also provided Golder with the results of a February 2020 irrigation well sampling event. The results indicate that PFOA and PFOS concentrations are present above PGCTLs at multiple locations across the site, indicating the potential for additional sources of PFAS contamination.

2.3.3 Site Reconnaissance Activities

In April 2021, Golder representatives Matthew Crews, PE and Scott Neal completed a site reconnaissance with relevant facility personnel from the Miami Dade College and Terracon. During the site reconnaissance, Golder discussed operational history including use and storage of AFFF across the Miami Dade College North Campus and identified potential routes of contamination. Based on observations and discussions during site reconnaissance, the following Areas of Concern (AOC) were identified:

- AOC-1: Fire Training Area 1 – The location of the Fire Academy historically stored and trained with AFFF as part of operations from approximately 1983 until at least the mid-1990's and possibly until 2015 (conflicting reports). A limited investigation performed by Terracon indicated PFAS contamination in the soil and groundwater in this area.
- AOC-2: Fire Training Area 2 – Shown as “Fire Science Burn Building” on Miami Dade College campus maps, Golder observed a training burn building and live fire prop field located approximately 3,000 feet to the south of AOC 1.
- AOC-3: Former Hangar – According to historical sources, the former Master Field hangar has been located on the site since at least 1943. Miami Dade College has modified the use of the hangar, but the structure still exists on the site. Records do not indicate AFFF storage areas during the site's use as an airfield; however, it is likely AFFF would have been stored and/or used in the vicinity of the hangar.
- AOC-4: Plant Maintenance Building – According to Fire Academy representatives, AFFF for training purposes was historically delivered to the Plant Maintenance Building and stored there until needed.

A potable water sample was collected from a hydrant at the fire training facility for analysis of PFAS using US Environmental Protection Agency (EPA) Method 8321B to evaluate the potential for use as a PFAS-free water source during site assessment activities. The FDEP SIS notified Golder via e-mail on May 10, 2021 that the potable water sample from the hydrant at the fire training facility contained PFOS/PFOA combined at a concentration of 30.8 ng/L. As a result, the FDEP SIS instructed Golder that PFAS-free water would need to be obtained from an approved offsite source for use during assessment activities (i.e., equipment decontamination, drilling water).

The Site Plan, which identifies the AOCs and other relevant site features, is included on Figure 2.

Golder submitted a Site Assessment Work Plan, dated June 15, 2021, with the purpose of delineating the nature and extent of PFAS in the site soil and groundwater, and identifying other potential sources of PFAS based on the historical use and storage of PFAS containing materials including AFFF of the site. The FDEP SIS contracted Golder in July 2021 to implement the Scope of Work with subsequent modifications based on e-mail and telephone correspondence. A summary of the assessment activities is included in the following sections.

3.0 SITE ASSESSMENT ACTIVITIES

Groundwater, surface water, sediment, and soil sampling activities were completed in accordance with FDEP Standard Operating Procedures (SOPs) for Field Activities (DEP SOP-001/01), dated January 2017 (effective April 16, 2018) and FDEP SOPs for Sampling and Analysis of PFAS, dated August 2020. Field equipment and drilling equipment were decontaminated with PFAS-free water upon arrival to the site and between uses at each sampling or well location in accordance with the SOPs for Sampling and Analysis of PFAS. Drilling equipment was decontaminated within a temporary containment pad located in the southern portion of the fire training facility in AOC-1. Golder did not use any known PFAS-containing materials or equipment during site assessment activities. Field documentation of site assessment activities is provided in Appendix A. A photographic log of site assessment activities is provided in Appendix B.

3.1 Site Access and Utility Clearance

Prior to mobilization, the FDEP SIS obtained site access from the following appropriate property owners or owner representatives to complete the scope of work:

- Miami-Dade County Fire Rescue [Miami-Dade Fire Station No. 26 (adjoining northeast of AOC-1)]
- State of Florida (Miami Dade College North Campus)

Based on existing soil and groundwater analytical data and observations made during the site reconnaissance, Golder and the FDEP SIS identified proposed soil sampling locations, vertical profiling locations, shallow and deep monitoring well locations, and an exploratory boring location. Locations were marked with pin flags and/or paint on the ground surface using a handheld GPS unit. Prior to initiating site assessment activities, Golder contacted Sunshine State One Call to identify underground utilities at these locations. In addition, Golder contracted GeoTek Services, LLC (GeoTek) to locate shallow subsurface utilities or other buried hazards and to verify locations marked by Sunshine State One Call. Several anomalies, which were not marked by Sunshine State One Call, were identified by GeoTek using ground penetrating radar. Soil boring and well locations located near areas of potential underground conflicts were discussed with the FDEP SIS and adjusted accordingly. No significant changes to proposed sample locations were made based on the presence of underground utilities.

3.2 Soil and Sediment Assessment

Between August 31 and October 15, 2021, following completion of the utility locations activities, Golder advanced 50 soil borings and collected samples at the site. Soil samples were collected from the following locations:

- AOC-1 (Fire Training Area 1): 21 locations.
- Four soil boring locations with PSCTL exceedances from the 2019-2020 Terracon investigation (SB-1, SB-2, SB-4, and SB-5) were advanced from 2.0 to 4.0 feet bgs (previous investigation sampled to a maximum depth of 2.0 feet bgs).
- 16 soil boring locations (SB-8 through SB-15, SB-26, SB-27, and SB-48 through SB-53) were advanced to horizontally delineate PSCTL exceedances indicated by the 2019-2020 Terracon investigation and/or in conjunction with proposed monitoring well installations.
- AOC-2 (Fire Training Area 2): 10 locations (SB-38 through SB-47).

- Six soil boring locations were advanced around the perimeter of the live fire prop field adjacent to drainage grates which allowed water to flow out of the gravel in the prop field.
- Four soil boring locations were advanced in pervious areas around each side of the burn building.
- AOC-3 – Former Hangar: 10 soil borings (SB-16 through SB-25) were advanced in pervious areas around the perimeter of the former hangar.
- AOC-4 – Plant Maintenance Building: 10 soil borings (SB-28 through SB-37) were advanced in pervious locations around the perimeter of the Plant Maintenance Building.

In addition, Golder collected three sediment samples (SS-1 through SS-3) at the following locations:

- The western edge of the pond in the central portion of the Miami Dade College Campus (SED-1).
- Along the northern edge of the Little River Canal directly south of AOC-2 (SED-2).
- Along the northern edge of the Little River canal adjacent to a stormwater outfall located directly south of AOC-4 (SED-3).

The soil and sediment sample locations are shown on Figure 3.

At each soil sampling location, Golder used a decontaminated stainless-steel hand auger to collect soil samples from three vertical intervals (0 to 0.5 feet bgs, 0.5 to 2.0 feet bgs, and 2.0 to 4.0 feet bgs; 2.0 to 4.0 feet bgs from SB-1, SB-2, SB-4, and SB-5 in AOC-1), resulting in a total of 141 soil samples. Golder placed soil from each interval on clear polyethylene sheeting for mixing prior to placement into laboratory-supplied containers. The sediment samples were also collected using a decontaminated stainless-steel hand auger. Golder prepared the chain-of-custody documentation and placed the soil samples and sediment sample in coolers with ice for transportation to the FDEP Central Laboratory. The FDEP Central Laboratory analyzed the soil and sediment samples for PFAS using DEP SOP: LC-001-3.

In general, the soils and sediment encountered during soil sampling activities were fine sand and limestone/gravel-sand mixtures extending from the ground surface to approximately 1 foot bgs, and fine sands from approximately 1 foot bgs to approximately 4 feet bgs. Groundwater was not observed within any of the boreholes. Soil boring logs and field documentation are provided in Appendix A.

3.3 Surface Water Assessment

On September 1, 2021, Golder collected surface water samples at the following locations:

- The location of SED-1 on western edge of the pond in the central portion of the Miami Dade College Campus (SW-1).
- The location of SED-2 along the northern edge of the Little River Canal directly south of AOC-2 (SW-2).
- The location of SED-3 along the northern edge of the Little River canal adjacent to a stormwater outfall located directly south of AOC-4 (SW-4).

The surface water sample locations are shown on Figure 3.

Surface water samples were collected using a low-flow peristaltic pump. The intake end of the tubing was affixed to a telescoping pole and placed 10 to 15 feet from the shoreline in an area free of algae and other debris. The

approximate sample depths were 6 inches below the top of the water. Three equipment volumes were purged at each sampling location before collecting field parameters, which included temperature, pH, specific conductance, dissolved oxygen, and turbidity. Field parameters were recorded on surface water sampling data sheets, which along with the equipment calibration records are also included in Appendix A.

Golder prepared the chain-of-custody documentation and placed the surface water samples in coolers with ice for transportation to the FDEP Central Laboratory. The FDEP Central Laboratory analyzed the samples for PFAS using DEP SOP: LC-001-3.

3.4 Exploratory Soil Borings

On October 11, 2021, a direct-push technology (DPT) rig was used to install an exploratory soil boring (Exploratory Boring-1) under the direct supervision of a Golder geologist to determine continuous lithologic profiles, which were used to identify potential aquitards, determine the thickness of the any identified low permeability clay zones and any zones of higher permeability. Exploratory Boring-1 was advanced in the grassy area in the southern portion of the driver training course in AOC-1. The target depth of Exploratory Boring-1 was 100 feet bgs, but refusal was encountered at approximately 51 feet bgs. On February 1, 2021, a mini-sonic rig was used to install a second exploratory boring (Exploratory Boring-2) to 100 feet bgs in AOC-1 near monitoring well DMW-1.

In general, sand, silty sand, clayey sand, and gravelly clayey sands were encountered from the surface to 40 feet bgs. Porous, vuggy limestone with some sand was observed from approximately 40 to 61 feet bgs. A low-porosity limestone unit was observed approximately 61 to 65 feet bgs. Sand, gravel, and porous limestone were observed from approximately 65 to 98 feet bgs and a low-porosity limestone was observed from approximately 98 to 100 feet bgs. The boring logs for the exploratory borings are provided Appendix A and the approximate locations are shown on Figure 4 .

3.5 Groundwater Assessment

3.5.1 Shallow Monitoring Well Installation

Golder oversaw the use of a DPT rig to install 11 shallow zone monitoring wells (DEPMW-1S through DEPMW-11S) in the surficial aquifer at the locations shown on Figure 2. The wells were installed during the week of October 11, 2021.

Once the utilities were marked at ground surface, each well location was cleared for the presence of buried utilities using a hand auger to a minimum depth of 5 feet bgs. The monitoring wells were constructed of 0.75 inch diameter, Schedule 40 PVC casing with pre-packed 0.01-inch diameter slot size screen and 0.75-inch diameter, Schedule 40 PVC riser. Each screen was 10 feet in length and installed to a total depth of approximately 12 feet bgs. The well risers and screens were connected via flush-threaded joints. The annular space between the borehole wall and each well screen was completed with a pre-packed 20/30 grade silica sand filter pack from the bottom of the borehole to the top of the well screen. A 20/30 grade silica sand filter pack was then placed a minimum of 1 foot above the top of the well screen. A 6-inch, fine (30/65) grade silica sand seal was placed above the sand filter pack and the remainder of the annular space was completed with a Portland Cement Type II grout seal.

The monitoring wells were finished with flush-mounted surface completion and an 8-inch diameter bolt-down steel cover. The risers were capped with water-tight expandable locking plugs. A 2-foot by 2-foot concrete pad was constructed around the well to secure the flush-mounted vault, which was sloped away from the well to prevent surface water infiltration.

To remove fine grained particles in the filter pack and adhered to the borehole wall, and to establish a good hydraulic connection with the aquifer, the monitoring well was developed until the purged water remains visibly clear and free of suspended particulate matter. Monitoring well construction details are summarized in Table 1. Field documentation, including shallow monitoring well installation logs are provided in Appendix A.

3.5.2 Vertical Groundwater Profiling

During the week of October 11, 2021, Golder oversaw the use of a DPT rig to complete vertical groundwater profiling. After reviewing the results of the exploratory boring (Exploratory Boring-1) with the FDEP site manager, vertical groundwater profiling sample intervals were adjusted from the proposed scope of work due to refusal depth (51 feet bgs) and the observed lithology. Vertical profiling points were advanced at the following five locations:

- AOC-1:
 - Vertical profiling location VP-2 was in the suspected source area in the southern portion of the fire training area, adjacent to monitoring wells DMW-1, DEPMW-3S, and DEPMW-1D.
 - Vertical profiling location VP-4 was located approximately 325 east-southeast of VP-2 in the driver training course. This location was next to soil boring SB-15 and monitoring wells DEPMW-7S and DEPMW-3D.
- AOC-2: Vertical profiling location VP-3 was located along the southeastern side of the fire prop training area next to monitoring wells DEPMW-5S and DEPMW-5D and between soil borings SB-40 and SB-42.
- AOC-3: Vertical profiling location VP-5 was located in the grassy area approximately 150 feet south of the former hangar. This location was next to monitoring well DEPMW-8S soil boring SB-22.
- AOC-4: Vertical profiling location VP-1 was located in the grassy area approximately 100 feet north of the plant maintenance building next to monitoring wells DEPMW-1S and DEPMW-4D and soil boring SB-34.

The results of the vertical profile sampling were used to determine presence or absence of PFAS in the shallow and intermediate zones of the surficial aquifer across the site. The vertical profiling locations are shown on Figure 3.

Once the utilities were marked at ground surface, each well location was cleared for the presence of buried utilities using a hand auger to a minimum depth of 5 feet bgs. Golder collected groundwater samples using DPT tooling (4-foot screens) at 10-foot intervals to a depth of 50 feet at each location. The samples were collected from the following intervals: 16 to 20 feet bgs, 26 to 30 feet bgs, 36 to 40 feet bgs, and 46 to 50 feet bgs (four samples per location). The samples were analyzed by the FDEP Central Laboratory for PFAS using DEP SOP: LC-001-3. The drilling contractor decontaminated the drilling rods, DPT screens, hand augers, and other relevant equipment upon arrival at the site and after each sample was collected. Field documentation, including the vertical profile groundwater sampling logs are provided in Appendix A.

3.5.3 Deep Monitoring Well Installation

During the week January 31, 2022, Golder oversaw the use of a sonic drill rig to install six deep zone monitoring wells (DEPMW-1D through DEPMW-6D) at the locations shown on Figure 2 (previous vertical profiling locations and one additional deep well in AOC-1). Each well location was cleared for the presence of buried utilities using a hand auger to a minimum depth of 5 feet bgs. The monitoring wells were constructed of 2-inch diameter, Schedule 40 PVC casing with a 0.01-inch diameter slot size screen and 2-inch diameter, Schedule 40 PVC riser. Each screen was 10 feet in length and installed to a total depth of approximately 80 feet bgs (i.e., screened from 70 to 80 feet bgs). The well risers and screens were connected via flush-threaded joints. A 20/30 grade silica sand

filter pack was then placed to two feet above the top of the well screen. A 1-foot thick, fine (30/65) grade silica sand seal was placed above the sand filter pack and the remainder of the annular space was completed with a Portland Cement Type II grout seal.

Deep well DEPMW-1D was constructed in the Exploratory Boring-2 borehole. The borehole was backfilled with hydrated bentonite pellets from 100 to 86 feet bgs then 20/30 grade silica sand to 85 feet bgs. Water from the drill rig was used to pressurize the bentonite in the borehole which compressed and formed a solid surface seal at 85 feet bgs. A 20/30 grade silica sand was placed from 85 to 80 feet bgs, and the well was constructed as described above.

The monitoring wells were finished with flush-mounted surface completion and an 8-inch diameter bolt-down steel cover. The risers were capped with water-tight expandable locking plugs. A 2-foot by 2-foot concrete pad was constructed around the well to secure the flush-mounted vault, which was sloped away from the well to prevent surface water infiltration.

To remove fine grained particles in the filter pack and adhered to the borehole wall, and to establish a good hydraulic connection with the aquifer, the monitoring was developed until the purged water remains visibly clear and free of suspended particulate matter. Monitoring well construction details are summarized in Table 1. Field documentation, including deep monitoring well installation logs are provided in Appendix A.

3.6 Groundwater Sampling

Golder mobilized to the site during the week of February 28, 2022 to collect groundwater samples from the 17 newly installed FDEP monitoring wells, 5 wells previously installed by the Terracon, and 5 irrigation wells (27 wells total). Groundwater from 26 of the 27 wells was collected due to DEPMW-8S being destroyed by construction activities at AOC-3 prior to the sampling event. The wells sampled in the shallow zone of the surficial aquifer were as follows: DEPMW-1S through DEPMW-7S, DEPMW-9S through DEPMW-11S, MW-1E, MW-1W, MW-2, and MW-3 (14 wells). The well sampled in the intermediate zone of the surficial aquifer was DMW-1 (one well). The wells sampled in the deep zone of the surficial aquifer were as follows: DEPMW-1D through DEPMW-6D (six wells). The irrigation wells (construction details including screen intervals were not available) sampled were as follows: Well 1, Well 4, Well 10, Well 11, and Well 12 (five wells).

Prior to groundwater sampling, the water level depth was measured at each well to be sampled to determine groundwater elevations across the site. Water level depth could not be collected at the irrigation wells. Prior to collecting the groundwater sample, each well was purged and field parameters including temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential were monitored. Purge volumes and field parameters were recorded on field data sheets, and the field monitoring equipment was calibrated in accordance with the manufacturer's recommended procedures. Relevant sampling equipment was decontaminated after each sample was collected.

Golder prepared the chain-of-custody documentation and placed the samples in coolers with ice for transportation to the FDEP Central Laboratory. The FDEP Central Laboratory analyzed the samples for PFAS using DEP SOP LC-001-3. Samples from wells DEPMW-1S, DEPMW-3S, and DEPMW-5S were additionally analyzed for polyaromatic hydrocarbons (PAHs) using EPA 8270E and volatile organic compounds (VOCs) using EPA 8260D. Field documentation is included in Appendix A.

3.7 Well Survey

The wells listed in the previous section were surveyed by SurvTech Solutions, Inc. (SurvTech), a Florida-licensed professional land surveyor, for top-of-well casing elevations (+/- 0.01 feet accuracy) and well spatial arrangement (+/- 0.1 feet accuracy). The horizontal datum was recorded in the North American Datum (NAD) 1983, Florida East Zone State Plane Coordinate system. The vertical datum was recorded in North American Vertical Datum of 1988 (NAVD 88). The survey results are summarized in Table 6. The SurvTech report is included in Appendix C.

3.8 Investigation Derived Waste

Soil cuttings, equipment decontamination water, and well development and purge water from site assessment activities were placed in 55-gallon drums, appropriately labeled as investigation derived waste (IDW), and temporarily staged in the southern portion of the fire training area in AOC-1. Golder used the soil and groundwater analytical results for waste characterization purposes.

Clark Environmental Inc. (Clark) transported and disposed of one drum containing IDW soil cuttings and six drums containing IDW liquids on November 22, 2021. Clark transported and disposed of four drums containing IDW soil cuttings and 18 drums containing IDW liquids (well development and groundwater sampling purge water) on May 2, 2022. The drum contents were initially transported to Clark's facility at 755 North Prairie Industrial Parkway in Mulberry, Florida for stabilization. The contents were then disposed at the Republic Services Cedar Trails facility in Bartow, Florida. The non-hazardous waste manifests are included in Appendix D.

4.0 ANALYTICAL RESULTS

4.1 Soil and Sediment

The FDEP has derived leachability-based PSCTLs of 2 µg/kg for PFOA and 7 µg/kg for PFOS concentrations. At this time, the FDEP has directed Golder to use the PSCTLs for both soil and sediment.

The reported PFOA concentrations in soil were below the leachability-based PSCTL of 2 µg/kg at 45 of the 47 new sample locations and the four previous sample locations (2.0 to 4.0 feet bgs depth interval). The reported PFOA concentrations in soil were above the leachability-based PSCTL in two of the 47 sample locations (SB-8 and SB-51). Including the 2019 soil analytical results, leachability-based PSCTL exceedance concentrations for PFOA ranged from 2.5 µg/kg to 6.6 µg/kg. The only PFOA concentration exceedances were from samples collected in AOC-1.

The reported PFOS concentrations in soil were below the leachability based PSCTL of 7 µg/kg at 36 of the 47 new soil sampling locations and in 1 of the 4 previously sampled locations. Including 2019 soil analytical results, 11 soil sample locations with an exceedance of the PFOS leachability-based PSCTL had an exceedance in the 0 to 0.5 feet bgs interval and ranged from 7.7 µg/kg to 170 µg/kg. Including 2019 soil analytical results, reported PFOS concentrations were above the leachability-based PSCTL at sample locations SB-1, SB-2, SB-4, SB-5, SB-13, SB-49, and SB-51 in the 0.5 to 2.0 feet bgs depth interval and ranged from 7.6 µg/kg to 200 µg/kg. These borings are located in the southern portion of AOC-1 around wells DMW-1, DEPMW-3S, and DEPMW-1D (source area). The reported PFOS concentrations were above the leachability-based PSCTL in the 2.0 to 4.0 feet bgs depth interval at locations SB-1, SB-4, SB-5, and SB-51 and ranged from 10 µg/kg to 82 µg/kg.

The reported PFOA and PFOS concentrations in the sediment samples collected from the western edge of the pond in the central portion of the Miami Dade College Campus (SED-1) and the Little River Canal directly south of campus (SED-2 and SED-3) were below PSCTLs.

A summary of the detected PFAS in soil is provided in Table 2. A summary of the detected PFAS in sediment is provided in Table 3. The PFOA and PFOS results from AOC-1, AOC-2, AOC-3, and AOC-4 are shown on Figures 4, 5, 6, and 7, respectively. The PFOA and PFOS results from sediment samples are shown on Figure 8. The laboratory analytical reports are included in Appendix E.

4.2 Surface Water

The FDEP has derived Provisional Surface Water Screening Levels (PSWSLs) of 500 ng/L for PFOA and 10 ng/L for PFOS concentrations. These screening levels are protective of human health for both freshwater and estuarine finfish and shellfish species. It is unlikely that any fishing activities take place in the on-campus pond (SW-1), however, fishing activities are likely in the Little River Canal (SW-2 and SW-3).

The reported PFOA concentrations were below the PSWSL of 500 ng/L at each of the 3 surface water sampling locations. The reported PFOS concentrations were above the PSWSL of 10 ng/L at SW-2 (15 ng/L) and SW-3 (14 ng/L).

The FDEP has also derived PSWSLs for PFOA and PFOS that are protective of ecology in both freshwater and marine environments. The reported PFOA and PFOS concentrations associated with this study were below the PSWSLs for both freshwater and marine ecological environments.

A summary of the detected PFAS in surface water is provided in Table 4. The PFOA and PFOS results from surface water samples are shown on Figure 8. The laboratory analytical reports are included in Appendix E.

4.3 Groundwater

4.3.1 Groundwater Elevations

On February 28, 2022, the depth-to-groundwater was measured and recorded at each well location using an electronic water level indicator. The surficial aquifer was subdivided into three zones. The shallow zone wells consist of wells screened from 2 to 12 feet bgs (DEPMW-1S through DEPMW-11S) and wells screened from 2 to 17 feet bgs (MW-1W, MW-1E, MW-2, and MW-3). The intermediate zone well DMW-1 is screened from 30-35 feet bgs. The deep zone wells consist of wells screened from approximately 70 to 80 feet bgs (DEPMW-1D through DEPMW-6D). Monitoring well DEPMW-8S was destroyed by construction activities at AOC-3 prior to the sampling event and could not be used for groundwater elevations. Due to the construction of the irrigation wells, depth-to-groundwater measurements could not be collected from the irrigation wells. The depth-to-groundwater measurements and calculated groundwater elevations are summarized in Table 6. The potentiometric maps of the shallow zone of the surficial aquifer are shown on Figures 9 (AOC-1) and Figure 10 (sitewide). The potentiometric map of the deep zone of the surficial aquifer is shown on Figure 11.

In general, the groundwater gradient in the shallow surficial aquifer in AOC-1 is generally flat and flow direction is towards the south-southeast. According to site engineering plans, catch basins in AOC-1 drain directly to the subsurface via exfiltration trenches. An area of groundwater mounding is suspected near DEPMW-2S due to large volumes of water used during training activities which drain through these exfiltration trenches and pervious surfaces.

Sitewide, the groundwater gradient in the shallow surficial aquifer is flat and flow direction towards the south-southeast. The highest groundwater elevation in the shallow surficial aquifer was in DEPMW-2S (0.50 feet) and the lowest groundwater elevation was in DEPMW-1S (0.32 feet), approximately 0.7 miles to the southeast. The site is approximately 230 acres with an inconsistent distribution of pervious and impervious areas. The irregular distribution of groundwater recharge areas over the 230-acre site with a low horizontal gradient caused small variations in groundwater elevations which made creating groundwater contours difficult, however, the general trend was toward the south-southeast.

Based on the February 2022 groundwater elevation data, the groundwater gradient in the deep surficial aquifer is generally flat and the groundwater flow is towards the south-southeast. The highest groundwater elevation in the deep surficial aquifer was in DEPMW-1D (0.35 feet) and the lowest groundwater elevation was in DEPMW-4D (0.25 feet), approximately 0.7 miles to the southeast. Less variability due to surface conditions is expected in the deep surficial aquifer than the shallow surficial aquifer. General trends from the deep aquifer support general trends observed in the shallow surficial aquifer.

4.3.2 Analytical Results

A summary of the groundwater field parameters is provided in Table 7. A summary of the detected PFAS in shallow and deep groundwater is provided in Table 8. All petroleum group analytes were reported below detection limits in samples collected from DEPMW-1S, DEPMW-3S, and DEPMW-5S. The PFOA and PFOS results from the shallow surficial aquifer are shown on Figure 12. The PFOA and PFOS results from the intermediate surficial aquifer are shown on Figure 13. The PFOA and PFOS results from the deep aquifer are shown on Figure 14. The PFOA and PFOS results from the irrigation wells are shown on Figure 15. The laboratory analytical reports are included in Appendix E.

4.3.2.1 *Shallow Surficial Aquifer*

Golder collected groundwater samples from shallow zone monitoring wells DEPMW-1S through DEPMW-7S, DEPMW-9S through DEPMW-11S, MW-1E, MW-1W, MW-2, and MW-3 (14 wells). The results are summarized as follows:

- The reported PFOA concentrations were above the PGCTL of 70 ng/L at two of the 14 well locations (DEPMW-2S and DEPMW-3S). The PFOA concentration in DEPMW-2S was 290 ng/L and the PFOA concentration in DEPMW-3S was 980 ng/L.
- The reported PFOS concentrations were above the PGCTL of 70 ng/L at six of the 14 well locations (DEPMW-2S, DEPMW-3S, DEPMW-4S, DEPMW-7S, DEPMW-9S, and DEPMW-11S). The PFOA concentrations ranged from 110 ng/L (DEPMW-9S) to 22,000 ng/L (DEPMW-3S) at these six locations.
- The reported combined PFOA/PFOS concentrations were above the PGCTL of 70 ng/L at seven of the 14 well locations (MW-1W, DEPMW-2S, DEPMW-3S, DEPMW-4S, DEPMW-7S, DEPMW-9S, and DEPMW-11S). The combined PFOA/PFOS concentrations ranged from 103 ng/L (MW-1W) to 22,980 ng/L (DEPMW-3S) at these seven locations.
- The combined PFOA/PFOS concentration was present at its highest level in the shallow groundwater interval at DEPMW-3S (22,980 ng/L) and decreases to the southeast towards the southeast, but remains above the PGCTL, in shallow monitoring wells DEPMW-11S and DEPMW-9s. Combined PFOA/PFOS concentrations were present below PGCTLs further south in shallow monitoring wells DEPMW-5S and DEPMW-1S.

4.3.2.2 *Intermediate Surficial Aquifer*

4.3.2.2.1 *Vertical Profiling*

A brief summary of the results at each of the four vertical profiling locations is presented below:

- AOC-1 (Fire Training Area 1, VP-2, and VP-4):
 - VP-2 (Source Area): The PFOA concentrations were below the PGCTL of 70 ng/L at each depth interval, except the 16 to 20 feet bgs interval. The PFOS concentrations were above the PGCTL of 70 ng/L at every interval with the highest concentration at the 16 to 20 feet bgs interval (3,700 ng/L). The combined PFOA and PFOS concentrations were above the PGCTL of 70 ng/L at every interval. The highest combined concentration was at the 16 to 20 feet bgs interval (3,970 ng/L) and the lowest at the 26 to 30 feet bgs interval (169 ng/L).
 - VP-4 (Driver Training Area): The PFOA concentrations were below the PGCTL at each depth interval. The PFOS concentrations were above the PGCTL at every interval with the highest concentration in the 16 to 20 feet bgs interval (630 ng/L). The combined PFOA and PFOS concentrations were above the PGCTL of 70 ng/L in every interval. The highest combined concentration was in the 16 to 20 feet bgs interval (639.5 ng/L) and the lowest in the 36 to 40 feet bgs interval (165.6 ng/L).
- AOC-2 (Fire Training Area 2, VP-3): The PFOA concentrations were below the PGCTL at each depth interval. The PFOS concentrations were below the PGCTL at every interval except at the 46 to 50 feet bgs interval (200 ng/L). The combined PFOA and PFOS concentrations were below the PGCTL at every interval except at the 46 to 50 feet bgs interval (207.7 ng/L).

- AOC-3 (Former Hangar, VP-5): PFOA, PFOS, and combined PFOA and PFOS concentrations were below their PGCTLs at each depth interval.
- AOC-4 (Plant Maintenance Building, VP-1): PFOA, PFOS, and combined PFOA and PFOS concentrations were below their PGCTLs at each depth interval.
- In general, PFAS concentrations decreased with depth; however, at VP-3 in AOC-3, a sharp increase in PFOS was detected between the 36-40 feet bgs interval (11 ng/L) and the 46-50 feet bgs interval (200 ng/L). PFOS concentrations also increased between these intervals in VP-1 in AOC-4 but remained below PGCTLs (37 ng/L). It was noted in the exploratory borings that this zone was comprised of porous, vuggy limestone. It is possible that groundwater is more transmissive in this zone than the overlying sediments and acts as a conduit downgradient from the source area.

A summary of the detected PFAS at each of the vertical profiling locations is provided in Table 5. The PFOA and PFOS results from each vertical profiling location are shown on Figure 16. The laboratory analytical reports are included in Appendix E.

4.3.2.2 Permanent Intermediate Monitoring Well

Golder collected groundwater samples from the intermediate zone monitoring well DMW-1 (one well). The results are summarized as follows:

- The reported PFOA concentration was below the PGCTL in DMW-1 (52 ng/L).
- The reported PFOS concentration was above the PGCTL in DMW-1 (230 ng/L).
- The combined PFOA/PFOS concentration was above the PGCTL in DMW-1 (282 ng/L).

4.3.2.3 Deep Surficial Aquifer

Golder collected groundwater samples from deep zone monitoring wells DEPMW-1D through DEPMW-6D. The results are summarized as follows:

- The reported PFOA concentrations were below the PGCTL at all six well locations.
- The reported PFOS and the combined PFOA/PFOS concentrations were above the PGCTL of 70 ng/L at three of the six well locations (DEPMW-4D, DEPMW-5D, and DEPMW-6D). The combined PFOA/PFOS concentrations ranged from 103.3 ng/L (DEPMW-5D) to 127.1 ng/L (DEPMW-6D) at these three locations.
- The combined PFOA/PFOS concentrations are below PGCTLs in AOC-1 and are at their highest levels in DEPMW-6D in AOC-3 (127.1 ng/L). The combined PFOA/PFAS concentrations decrease, but remain above PGCTLs in DEPMW-4D and DEPMW-5D to the south.

4.3.2.4 Irrigation Wells

Golder collected groundwater samples from the irrigation wells (construction details including screen intervals were not available) Well 1, Well 4, Well 10, Well 11, and Well 12 (five wells). The results are summarized as follows:

- The reported PFOA concentration was above the PGCTL at one of five well locations (Well 12). The PFOA concentration in Well 12 was 78 ng/L.

- The reported PFOS and the combined PFOA/PFOS concentrations were above the PGCTL of 70 ng/L at four of the five well locations (Well 1, Well 4, Well 10, and Well 12). The combined PFOA/PFOS concentrations ranged from 86.6 ng/L (Well 10) to 1,678 ng/L (Well 12) at these four locations.
- Based on the comparison of concentrations of PFOA and PFOS in the irrigation wells and in the shallow, intermediate, and deep surficial aquifer zones across the site, it appears the irrigation wells are screened between the intermediate and deep surficial aquifer zones (approximately 50 and 80 feet bgs)

4.4 Data Evaluation

4.4.1 Source Area

The results of the site assessment activities indicate that the primary PFAS source area is located in the southern portion of AOC-1, where historical AFFF training activities were reportedly conducted. The highest PFAS concentrations in groundwater were observed in the sample collected from shallow monitoring well DEPMW-3S, which is centrally located in the historical AFFF training area. The reported PFOS concentration at monitoring well DEPMW-3S (22,000 ng/L) was multiple orders of magnitude higher than the PFOS concentrations observed at wells sampled outside of AOC-1 during this investigation. The PFOS concentrations in soil samples collected in the vicinity of monitoring well DEPMW-3S were above the leachability-based PSCTL from 0 to 4 feet bgs. The second highest reported PFOS concentration in groundwater was observed in the sample collected from shallow monitoring well DEPMW-2S (2,400 ng/L), which is also located in the current AFFF training area in AOC-1 and northeast of the historical AFFF training area. The vertical groundwater profiling results from AOC-1 (VP-2 and VP-4) indicate PFOS concentrations are above the PGCTL from the top of the water table to a depth of 50 feet bgs. According to site engineering plans, catch basins in AOC-1 drain directly to the subsurface via exfiltration trenches. Liquids discharged during fire training activities were observed to drain into the catch basins and onto adjacent pervious surfaces. In general, the groundwater gradient in the shallow surficial aquifer in AOC-1 is flat and flows towards the south-southeast. The presence of PFOS in groundwater at concentrations above the PGCTL outside of AOC-1 (see monitoring wells DEPMW-9S and DEPMW-11S) may be related to separate, localized sources, or could be from advective transport downgradient from the source area.

The high concentrations of PFOS in monitoring wells DEPMW-2S and DEPMW-3S indicate the historical use of Legacy PFOS AFFF in AOC-1. Legacy PFOS AFFF was manufactured from the late 1960s until 2002 and contained PFOS and various precursors that could break down in the environment to PFOS and short-chain sulfonate PFAS, such as perfluorohexanesulfonic acid (PFHxS). In addition, older formulations contained PFOA and fluorinated precursors, which could break down to PFOA and short-chain carboxylate PFAS (ITRC, 2020). The high concentrations and percent relative abundance of short-chain carboxylates and sulfonates in groundwater samples collected from monitoring wells in AOC-1 also indicate the historical use of Legacy PFOS AFFF in AOC-1.

High relative concentrations of short chain carboxylates such as high concentrations of PFOA and other shorter chain carboxylates (e.g., 6:2 Fluorotelomer sulfonate [6:2 FTS], perfluorohexanoic acid (PFHxA), and perfluorobutanoic acid [PFBA]) indicates the historical use of newer Modern Fluorotelomer AFFF which contain these PFAS and have been manufactured since approximately 2010. The presence of PFOA, 8:2 Fluorotelomer sulfonate (8:2 FTS), 6:2 FTS, and PFHxA indicate some historical use of Legacy Fluorotelomer AFFF which was manufactured from the 1970s until 2016 and contain both short chain and replacement long chain fluorotelomers that can degrade to PFOA (ITRC, 2020). A summary of the percent relative abundance of PFAS constituents in groundwater is shown in Table 9.

The PFOS and combined PFOA and PFOS concentrations in the intermediate surficial well DMW-1 were above PGCTLs. Monitoring well DMW-1 is located in a well cluster with shallow well DEPMW-3S and deep well DEPMW-1D. PFAS analytical results from DMW-1 are skewed towards detections of lower-solubility long-chain carboxylates [e.g., perfluorononanoic acid (PFNA), perfluorodecanoic acid (PFDA), perfluoroundecanoic acid (PFUnA)] compared to DEPMW-3S and DEPMW-1D. This is likely due to elevated turbidity (447 NTU) in DMW-1 and suggests that the PFAS results in this well may be biased high due to aquifer solids in the sample.

4.4.2 Radar Chart Analysis

The reported combined PFOA/PFOS concentration in deep monitoring wells located in AOC-1 (DEPMW-1D, DEPMW-2D, and DEPMW-3D) were below the PGCTL; however, the combined PFOA/PFOS concentration in deep wells located in AOC-2, AOC-3, and AOC-4 (DEPMW-5D, DEPMW-6D, and DEPMW-4D, respectively) were above the PGCTL. Based on the order of magnitude of its combined PFOA/PFOS concentration, monitoring well MW-3S was assumed to represent the source area signature of shallow groundwater at the site. Golder plotted short and long-chain PFAS concentrations on a radar chart to allow for an effective evaluation of PFAS signatures in groundwater samples collected from shallow and deep monitoring wells across the site. When plotted, the PFAS signatures of deep monitoring wells DEPMW-4D, DEPMW-5D, and DEPMW-6D are consistent with the source area DEPMW-3S signature. Additionally, PFAS signatures from other shallow monitoring wells at the site (DEPMW-4S, DEPMW-7S, and DEPMW-10S) are located within the source area signature, suggesting attenuation from the source area. Golder also observed higher concentrations of short-chain carboxylates (C4 through C7 carboxylates) relative to PFOA/PFOS at monitoring wells DEPMW-4S and DEPMW-10S, suggesting the potential of an additional source of PFAS to the northwest. Golder recommends installing additional shallow monitoring wells to the northwest.

Monitoring well DEPMW-7S has signature similar to deep wells DEPMW-4D, DEPMW-5D, and DEPMW-6D. The concentration of short-chain carboxylates in the deeper wells are lower than MW-7S. This suggests that either the short-chain carboxylates attenuate more rapidly than PFOS and PFOA along the pathway between shallow source wells and deeper downgradient wells, and/or the PFOA and PFOS (Legacy PFOS and Legacy Fluorotelomer AFFFs) were released prior to the short-chain carboxylates (Modern Fluorotelomer AFFF). The radar charts included in Appendix F.

5.0 QUALITY ASSURANCE/QUALITY CONTROL

Sampling was completed in accordance with applicable FDEP SOPs, project quality assurance goals were met, and the data obtained are reliable for their intended purpose. The laboratory performed method blank analyses, and accuracy and precision values were met. In addition, the following quality assurance/quality control (QA/QC) samples were collected during field activities:

- Soil and sediment sampling: seven equipment blanks (EQB-1 through EQB-7) and one field reagent blank (FRB-SB-32).
- Surface water sampling: one duplicate sample (DUP-SW-3), one equipment blank (EB-SW-1), and one field reagent blank (FRB-SW-2).
- Vertical profiling and shallow monitor well installation: two duplicate samples (DUP-VP-2-46-50 and DUP-VP-5-16-20), two equipment blanks (EQB-Screenpoint 1 and EQB-Screenpoint-2), and two field reagent blanks (FRB-VP-3 and FRB-DEPMW-4S).
- Groundwater sampling: three duplicate samples (DUP-MW-1W, DUP-DEPMW-5D, and DEPMW-6D), two equipment blanks (EB-PP-1 and EB-PP-2), two field reagent blanks (FRB-DEPMW-5D and DEPMW-11S-FRB), and one trip blank.

Duplicate samples were collected immediately after collection of the primary field sample. The equipment blanks were collected by pumping (peristaltic pump) laboratory-supplied PFAS-free water through silicon and HDPE tubing into laboratory-supplied sample containers, or by pouring PFAS-free water over the sampling equipment (i.e., bucket augers, DPT drill rods, and DPT screen tooling) and collecting the water into the sample containers. Field reagent blanks consisted of PFAS-free water containerized in HDPE sample containers filled at the laboratory prior to beginning field activities. The field reagent blank sample containers were opened during the collection of a sample, and the laboratory-supplied PFAS-free water was poured directly into the sample containers and resealed. The trip blanks contained PFAS-free water provided by the laboratory and were kept in the coolers during sampling activities.

With the exception of the trip blank, each of the QA/QC samples collected were analyzed by the FDEP Central Laboratory for PFAS using EPA Method 8321B. The trip blanks were analyzed for VOCs by EPA Method 8260D. Equipment blank sample EB-PP-2 was additionally analyzed for PAHs using EPA 8270E and VOCs using EPA Method 8260D. No target analytes were detected in the QA/QC samples.

6.0 CONCLUSIONS AND RECOMMENDATIONS

In 2019 and 2020, Terracon completed limited soil and groundwater assessment activities in the fire training facility area analyzing for the presence of PFAS in soil and groundwater based on the site's historical usage of fire-retardant materials such as AFFF. Terracon initially advanced and sampled seven soil borings to 2 feet bgs and installed seven temporary monitoring wells to 15 feet bgs in the vicinity of the AFFF training area. Sampling results indicated that PFOA and PFOS concentrations in soil samples were above FDEP PSCTLs for leachability from four of the seven soil borings and that PFOA and/or PFOS concentrations were above PGCTLs in all seven groundwater samples collected from temporary monitoring wells. Terracon then installed four permanent shallow monitoring wells to 15 feet bgs, and one permanent deep monitoring well to 35 feet bgs as part of the limited assessment. Laboratory analytical results from groundwater monitoring events in December 2019 and February 2020 indicated that the sum of PFOS/PFOA was above the PGCTL in one shallow monitoring well and the deep monitoring well.

Between August and October 2021, Golder collected soil samples from 50 soil borings (SB-1, SB-2, SB-4, SB-5, and SB-8 through SB-52) located within the AOCs; three sediment samples (SED-1, SED-2, and SED-3) and three surface water samples (SW-1, SW-2, and SW-3) from the pond located on campus and the Little River Canal to the south of campus; and collected groundwater samples from four depth intervals ranging from 20 to 50 feet bgs at five vertical profiling locations (VP-1 through VP-5). In addition, Golder oversaw the installation of 11 shallow monitoring wells (DEPMW-1S through DEPMW-11S) and the installation of an exploratory soil boring to 50 feet bgs to log lithology and identify zones of low and high permeability. Between January and February 2022, Golder oversaw the installation of six deep monitoring wells (DEPMW-1D through DEPMW-6D) and the installation of an exploratory soil boring to 100 feet bgs to log lithology and identify zones of low and high permeability. Golder collected groundwater samples in February and March 2022 from the accessible FDEP monitoring wells, five monitoring wells previously installed by Terracon, and five irrigation wells.

The results of the investigation indicated the following:

- The primary PFAS source area is located in the southern portion of AOC-1, where historical AFFF training activities were reportedly conducted. The highest PFAS concentrations in groundwater were observed in the sample collected from shallow monitoring well DEPMW-3S, which is centrally located in the historical AFFF training area. The PFOS concentrations in soil samples collected in the vicinity of monitoring well DEPMW-3S were above the leachability-based PSCTL from 0 to 4 feet bgs. According to site engineering plans, catch basins in AOC-1 drain directly to the subsurface via exfiltration trenches. Liquids discharged during fire training activities were observed to drain into the catch basins and onto adjacent pervious surfaces.
- The presence of PFOS in groundwater at concentrations above the PGCTL outside of AOC-1 (see monitoring wells DEPMW-9S and DEPMW-11S) may be related to separate, localized sources.
- The reported combined PFOA/PFOS concentration in deep monitoring wells located in AOC-1 (DEPMW-1D, DEPMW-2D, and DEPMW-3D) were below the PGCTL; however, the combined PFOA/PFOS concentration in deep wells located in AOC-2, AOC-3, and AOC-4 (DEPMW-5D, DEPMW-6D, and DEPMW-4D, respectively) were above the PGCTL.
- The PFAS signatures of deep monitoring wells DEPMW-4D, DEPMW-5D, and DEPMW-6D are consistent with the source area DEPMW-3S signature.
- The PFAS signatures from other shallow monitoring wells at the site (DEPMW-4S, DEPMW-7S, and DEPMW-10S) are located within the source area signature, suggesting attenuation from the source area.

- There are higher concentrations of short-chain carboxylates (C4 through C7 carboxylates) relative to PFOA/PFOS at monitoring wells DEPMW-4S and DEPMW-10S, suggesting the potential of an additional source of PFAS to the northwest.
- Shallow groundwater and soil sample results indicate that AOC-2, AOC-3, and AOC-4 are not sources of PFAS contamination to groundwater.
- The vertical profiling results indicate that groundwater located in zones between the shallow and deep surficial aquifer is also impacted with PFAS.
- The reported PFOA and PFOS concentrations in three sediment samples (SED-1, SED-2, and SED-3) were below leachability-based PSCTLs.
- The reported PFOA and PFOS concentrations and the surface water sample from the pond on campus (SW-1) were below PGCTLs. The reported PFOS concentrations were above the PSWSL at SW-2 (15 ng/L) and SW-3 (14 ng/L) which were collected Little River Canal to the south of campus.

Golder recommends additional vertical groundwater profiling and additional shallow groundwater monitoring wells across the site to further investigate the extent and pathways of PFAS migration across the site. The proposed locations are shown on Figure 17. The recommendations are summarized below:

- Three vertical groundwater profiling location and three permanent shallow wells are recommended to the east, southeast, and south of AOC-1 to assess the extent of PFAS migration and degradation in the shallow zone and from the shallow zone to the deep zone away from AOC-1.
- Two permanent shallow wells and one vertical profiling location are recommended to the northwest of AOC-1 to investigate a potential offsite source of PFAS that was indicated by higher concentrations of short-chain carboxylates (C4 through C7 carboxylates) relative to PFOA/PFOS at monitoring wells DEPMW-4S and DEPMW-10S.
- One vertical groundwater profiling location and one permanent shallow well are recommended to the southeast of AOC-1 approximately halfway between AOC-1 and DEPMW-11S to assess PFAS migration and degradation in the shallow zone and from the shallow zone to the deep zone away from AOC-1.
- Two vertical groundwater profiling locations and two permanent shallow wells are recommended to the east-southeast of AOC-1, between AOC-1 and DEPMW-9S to assess PFAS migration and degradation in the shallow zone and from the shallow zone to the deep zone away from AOC-1.
- One permanent shallow monitoring well is recommended to the south of AOC-3 at the DEPMW-6D location to replace the destroyed DEPMW-8S.
- One vertical groundwater profiling location and one permanent shallow well are recommended between DEPMW-11S and DEPMW-4D to assess the extent of shallow groundwater contamination and to assess the PFAS migration and degradation from the shallow zone to the deep zone away from AOC-1.
- Two vertical groundwater profiling locations, two permanent shallow monitoring wells, and one permanent deep monitoring well are recommended offsite east of NW 27th Avenue in the residential area to assess the PFAS migration and degradation downgradient of DEPMW-9S and DEPMW-11S.

- One vertical groundwater profiling location, one permanent shallow monitoring well, and one permanent deep monitoring well are recommended offsite in the residential area to the south of the Little River Canal to assess the PFAS migration and degradation downgradient of AOC-2 and AOC-3.
- Investigation into the presence of private potable wells in the residential areas to the southeast and the south of the site is recommended. The presence of private wells can be investigated by researching well permitting records and reconnaissance during assessment activities in the area.

Signature Page

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Director, Hydrogeologist

SCN/RMW/as

[https://golderassociates.sharepoint.com/sites/142333/Project Files/6 Deliverables/SOL-0A135 - Site Assessment/Site Assessment Report/SOL-0A135 - Miami Dade College Fire Training Facility Site Assessment Report- FINAL.docx](https://golderassociates.sharepoint.com/sites/142333/Project%20Files/6%20Deliverables/SOL-0A135%20-%20Site%20Assessment/Site%20Assessment%20Report/SOL-0A135%20-%20Miami%20Dade%20College%20Fire%20Training%20Facility%20Site%20Assessment%20Report-FINAL.docx)

7.0 PROFESSIONAL CERTIFICATION

This report has been completed under the responsible charge of a Florida Licensed Professional Geologist employed by Golder Associates USA Inc. in accordance with the requirements of Chapter 62-780 of the Florida Administrative Code. Our professional services have been performed using the degree of care and skill ordinarily exercised under similar circumstances by registered professionals practicing in the field of geology. All drawings, reports, data tables, or other geologic information contained in this report have been prepared or approved by the undersigned professional geologist, or a subordinate employee under their direction, for delivery to the public record within the State of Florida. This certification of geologic work applies only to the original document and does not pertain to copies of this document which can be changed by the entity with whom such document(s) are filed. No other representation, expressed or implied, is made as to the professional advice in this report.

Golder Associates USA Inc.



Robert M. Wojcik, PG
Florida Professional Geologist Number 2257

6/21/22

Date



8.0 REFERENCES

Interstate Technology Regulatory Council. 2020. "Aqueous Film-Forming Foam (AFFF)" <https://pfas-1.itrcweb.org/fact-sheets/>.

Terracon Consultants, Inc. 2020. "PFAS Limited Soil and Groundwater Assessment Report – Miami Dade College."

TABLES

**TABLE 1
WELL CONSTRUCTION DETAILS**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Well ID	Northing ^A	Easting ^A	Total Depth	Screen Interval	Well Diameter	Drilling Method	TOC Elevation ^A	Date Installed
	(NAD 83)	(NAD 83)	(feet)	(feet bgs)	(inches)	--	(feet NAVD)	--
FDEP WELLS								
Shallow Zone Wells								
MW-1W	563521.67	902532.50	17	7 - 17	2	DPT	7.03	11/5/19
MW-1E	563580.08	902703.74	17	7 - 17	2	DPT	6.84	11/5/19
MW-2	563147.18	902721.70	17	7 - 17	2	DPT	6.38	11/5/19
MW-3	563060.19	902543.96	17	7 - 17	2	DPT	6.97	11/5/19
DEPMW-1S	560266.78	904568.43	12	2 - 12	0.75	DPT	6.50	10/12/21
DEPMW-2S	563466.10	902625.09	12	2 - 12	0.75	DPT	6.87	10/13/21
DEPMW-3S	563364.20	902463.25	12	2 - 12	0.75	DPT	6.62	10/13/21
DEPMW-4S	563390.82	902378.44	12	2 - 12	0.75	DPT	6.84	10/13/21
DEPMW-5S	560291.81	902792.87	12	2 - 12	0.75	DPT	6.96	10/13/21
DEPMW-6S	561943.94	902490.95	12	2 - 12	0.75	DPT	6.47	10/13/21
DEPMW-7S	563235.99	902760.34	12	2 - 12	0.75	DPT	6.41	10/14/21
DEPMW-8S	NM (Destroyed)		12	2 - 12	0.75	DPT	NM	10/14/21
DEPMW-9S	561862.56	905025.72	12	2 - 12	0.75	DPT	7.27	10/14/21
DEPMW-10S	563584.31	902381.49	12	2 - 12	0.75	DPT	6.79	10/15/21
DEPMW-11S	561546.13	903492.84	12	2 - 12	0.75	DPT	7.76	10/15/21
Intermediate Zone Wells								
DMW-1	563361.70	902465.29	35	30 - 35	2		6.38	11/5/19
Deep Zone Wells								
DEPMW-1D	563359.30	902467.08	79.5	69.5 - 79.5	2	Sonic	6.63	2/1/22
DEPMW-2D	563071.46	902537.75	80	70 - 80	2	Sonic	7.05	2/2/22
DEPMW-3D	563238.82	902762.38	80	70 - 80	2	Sonic	6.44	2/2/22
DEPMW-4D	560278.87	904559.75	80	70 - 80	2	Sonic	6.40	2/3/22
DEPMW-5D	560285.47	902792.15	79.5	69.5 - 79.5	2	Sonic	6.80	2/4/22
DEPMW-6D	562811.80	903674.87	80	70 - 80	2	Sonic	8.39	2/4/22
Irrigation Wells								
Well 1	561117.54	903590.11	NA	NA	2	NA	7.86	NA
Well 4	560098.37	904697.60	NA	NA	2	NA	8.86	NA
Well 10	563108.91	903982.04	NA	NA	2	NA	9.94	NA
Well 11	561871.07	903641.26	NA	NA	2	NA	6.05	NA
Well 12	563162.43	902734.29	NA	NA	2	NA	7.99	NA
<p>Notes:</p> <p>^A - SurvTech Solutions Inc. survey completed March 2022 pending</p> <p>bgs - below ground surface</p> <p>NA - Not available</p> <p>NM - Not Measured</p> <p>DPT - direct push technology</p> <p>NAD 83 - North American Datum 1983, Florida East State Plane Coordinate System</p> <p>NAVD - North American Vertical Datum 1988</p> <p>PVC - polyvinyl chloride</p> <p>TOC - top of casing</p>								

**TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Et	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPrS	PFPeA	PFTeA	PFTriA	PFUnA
Provisional SCTL - Leachability (µg/kg)			2	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			1,300	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial			25,000	25,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-1	SB-1-0-0.5	8/14/19	2.1	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-1-0.5-2	8/14/19	6.6	94	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-1R-4	10/15/21	0.23 I	10	0.21 U	1.7 U	11	0.42 U	0.10 U	0.10 U	0.34 I	0.77	0.10 U	0.42 U	0.10 U	3.4	0.21 U	0.10 U	0.45 I	0.37 I	0.21 U	0.36 I	1.1	0.10 U	0.21 U	0.21 U	0.21 U	0.21 U	0.36 I
SB-2	SB-2-0-0.5	8/14/19	0.19 I	2.8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-2-0.5-2	8/14/19	0.26	8.7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-2R-4	10/12/21	0.21 U	0.57 I	0.21 U	1.7 U	1.1	0.42 U	0.11 U	0.11 U	0.16 I	0.11 U	0.11 U	0.42 U	0.11 U	0.42 U	0.21 U	0.11 U	0.21 U	0.16 I	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SB-3	SB-3-0-0.5	8/14/19	0.10 I	0.21 I	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-3-0.5-2	8/14/19	0.088 U	0.21 I	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SB-4	SB-4-0-0.5	8/14/19	1.8 U	170	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-4-0.5-2	8/14/19	3.7	200	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-4R-4	10/12/21	0.63 I	30	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	1.0	0.11 U	0.24 I	0.42 U	0.11 U	0.42 U	0.21 U	0.30 I	0.48 I	3.1	0.72 I	0.11 U	0.21 U	0.34 I	0.21 U	0.77 I	0.21 U	0.21 U	0.21 U
SB-5	SB-5-0-0.5	8/14/19	0.84	41	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-5-0.5-2	8/14/19	1.5	130	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-5R-4	9/2/21	1.3	82	0.21 U	15	18	0.41 U	0.14 I	0.10 U	5.8	1.7	0.10 U	0.46 I	0.34 I	0.51 I	0.42 I	0.30 I	1.5	2.7	2.6	0.32 I	0.93	0.12 I	0.21 U	2.7	0.21 U	0.21 U	0.31 I
SB-6	SB-6-0-0.5	8/14/19	0.089 U	0.47 I	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-6-0.5-2	8/14/19	0.12 I	0.38 I	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SB-7	SB-7-0-0.5	8/14/19	4.3	29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	SB-7-0.5-2	8/14/19	0.78	1.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SB-8	SB-8-0.5	8/31/21	2.6	5.4	0.21 U	1.6 U	18	0.41 U	0.10 U	0.10 U	0.26 I	0.12 I	0.18 I	1.1 I	0.10 U	5.0	5.9	0.10 U	3.7	1.6	2.8	0.10 U	4.8	0.20 I	0.21 U	2.9	2.3	2.1	4.4
	SB-8-2	8/31/21	2.6	6.3	0.19 U	1.5 U	20	0.38 U	0.094 U	0.094 U	0.22 I	0.096 I	0.23 I	1.4 I	0.27 I	5.1	2.6	0.094 U	7.0	1.8	3.8	0.094 U	6.5	0.19 I	0.19 U	3.7	0.69 I	0.76	5.4
	SB-8-4	8/31/21	2.5	16	0.19 U	2.3 I	8.2	0.37 U	0.093 U	0.093 U	0.14 I	0.093 U	0.28 I	1.7	0.20 I	4.3	0.50 I	0.093 U	8.2	3.0	8.4	0.16 I	3.7	0.27 I	0.19 U	7.3	0.27 I	0.19 U	1.7
SB-9	SB-9-0.5	8/31/21	0.48 I	1.5	0.22 U	1.7 U	0.22 U	0.43 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.43 U	0.15 I	3.0	1.7	0.11 U	0.96	0.21 I	0.94	0.11 U	0.63 I	0.11 U	0.22 U	0.79 I	0.77 I	0.90	2.4
	SB-9-2	8/31/21	0.43 I	2.0	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	1.5 I	0.33 I	0.11 U	0.34 I	0.12 I	0.42 I	0.11 U	0.66 I	0.11 U	0.21 U	0.70 I	0.21 U	0.22 I	1.0
	SB-9-4	8/31/21	0.19 U	2.2	0.19 U	1.5 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.39 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.58 I	0.097 U	0.19 U	0.19 U	0.19 U	0.19 U	0.23 I
SB-10	SB-10-0.5	8/31/21	1.5	1.3	0.21 U	1.7 U	0.38 I	0.43 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.96 I	2.1	5.4	3.8	0.11 U	2.7	0.11 U	1.1	0.11 U	1.9	0.11 U	0.21 U	2.0	0.94	1.6	5.8
	SB-10-2	8/31/21	0.48 I	1.2	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.44	1.1 I	0.21 U	0.11 U	0.58 I	0.11 U	0.21 U	0.11 U	0.57 I	0.11 U	0.21 U	0.65 I	0.21 U	0.21 U	0.21 U
	SB-10-4	8/31/21	0.37 I	1.4	0.19 U	1.6 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.11 I	0.79 I	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.92	0.097 U	0.19 U	0.34 I	0.19 U	0.19 U	0.19 U
SB-11	SB-11-0.5	8/31/21	1.0	0.94	0.20 U	1.6 U	0.65 I	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.39 U	0.19 I	9.9	3.1	0.098 U	1.1	0.098 U	1.1	0.098 U	1.7	0.098 U	0.2 U	0.99	0.93	0.50 I	7.6
	SB-11-2	8/31/21	1.2	1.3	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	5.4	0.79 I	0.10 U	0.67 I	0.10 U	0.88	0.10 U	2.7	0.10 U	0.2 U	1.1	0.20 U	0.21 I	1.3
	SB-11-4	8/31/21	0.64 I	1.8	0.19 U	1.5 U	0.19 U	0.38 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.38 U	0.094 U	0.94 I	0.19 U	0.094 U	0.40 I	0.094 U	0.22 I	0.094 U	1.6	0.094 U	0.19 U	0.35 I	0.19 U	0.19 U	0.45 I
SB-12	SB-12-0.5	8/31/21	0.42 I	17	0.23 U	1.8 U	0.52 I	0.46 U	0.11 U	0.11 U	0.75	0.31 I	0.13 I	0.46 U	0.11 U	0.46 U	1.9	0.11 U	0.23 U	1.9	0.43 I	0.11 U	0.23 U	0.16 I	0.23 U	0.31 I	1.2	1.1	0.23 U
	SB-12-2	8/31/21	0.19 U	3.5	0.19 U	1.5 U	1.5	0.39 U	0.097 U	0.097 U	1.1	1.9	0.097 U	0.39 U	0.60	0.84 I	0.56 I	0.097 U	0.19 U	0.87	0.19 U	0.11 I	0.19 U	0.097 U	0.19 U	0.24 I	0.37 I	0.34 I	0.30 I
	SB-12-4	8/31/21	0.20 I	5.2	0.20 U	1.6 U	4.0	0.41 U	0.10 U	0.10 U	1.4	2.0	0.10 U	0.41 U	0.32 I	0.41 U	0.20 U	0.10 U	0.43 I	1.6	0.20 U	0.39 I	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.37 I

**TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Et	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPoS	PFPeA	PFTeA	PFTriA	PFUnA	
Provisional SCTL - Leachability (µg/kg)			2	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Provisional SCTL - Residential (µg/kg)			1,300	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Provisional SCTL - Industrial			25,000	25,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-13	SB-13-0.5	8/31/21	0.66 I	23	0.19 U	1.5 U	0.71 I	0.37 U	0.093 U	0.093 U	0.41	0.22 I	0.15 I	0.37 I	0.26 I	1.1 I	4.0	0.19 I	0.94	3.1	1.2	0.093 U	0.37 I	0.23 I	0.19 U	1.3	2.0	2.0	1.1	
	SB-13-2	8/31/21	0.29 I	14	0.19 U	1.5 U	2.0	0.37 U	0.093 U	0.093 U	0.75	1.4	0.093 U	0.37 U	0.66	1.1 I	6.3	0.093 U	0.63 I	2.3	0.41 I	0.13 I	0.49 I	0.10 I	0.19 U	0.91	2.2	2.1	2.1	
	SB-13-4	8/31/21	0.45 I	6.5	0.19 U	1.5 U	2.8	0.38 U	0.095 U	0.095 U	0.64	1.2	0.095 U	0.38 U	0.27 I	1.6	0.80	0.095 U	0.30 I	1.3	0.39 I	0.13 I	0.19 U	0.095 U	0.19 U	0.19 U	0.19 U	0.19 U	0.79	
SB-14	SB-14-0.5	8/31/21	0.63 I	7.7	0.20 U	1.6 U	0.20 U	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.70 I	0.72	0.57 I	0.20 U	0.098 U	0.87	0.61	1.3	0.12 I	0.21 I	0.098 U	0.2 U	2.4	0.20 U	0.20 U	0.80	
	SB-14-2	8/31/21	0.20 U	0.23 I	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-14-4	8/31/21	0.20 U	0.20 U	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
SB-15	SB-15-0.5	8/31/21	0.30 I	2.5	0.21 U	1.6 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.12 I	0.47 I	0.21 U	0.10 U	0.21 U	0.11 I	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.62 I	0.21 U	0.21 U	0.21 U
	SB-15-2	8/31/21	0.20 U	1.6	0.20 U	1.6 U	0.20 U	0.40 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.40 U	0.099 U	0.40 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-15-4	8/31/21	0.19 U	0.30 I	0.19 U	1.5 U	0.19 U	0.38 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.38 U	0.096 U	0.38 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	
SB-16	SB-16-0.5	8/31/21	0.24 I	1.5	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	0.42 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.21 U	0.21 U	
	SB-16-2	8/31/21	0.23 I	1.8	0.19 U	1.5 U	0.19 U	0.38 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.38 U	0.095 U	0.38 U	0.19 U	0.095 U	0.19 U	0.095 U	0.24 I	0.095 U	0.19 U	0.095 U	0.19 U	0.22 I	0.19 U	0.19 U	0.19 U	
	SB-16-4	8/31/21	0.23 I	1.1	0.20 U	1.6 U	0.20 U	0.40 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.40 U	0.099 U	0.40 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
SB-17	SB-17-0.5	8/31/21	0.21 I	1.6	0.19 U	1.5 U	0.19 U	0.38 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.38 U	0.14 I	0.41 I	0.23 I	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.19 U	0.19 U	
	SB-17-2	8/31/21	0.20 U	0.86	0.20 U	1.6 U	0.20 U	0.40 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.40 U	0.099 U	0.40 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-17-4	8/31/21	0.20 U	0.46 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
SB-18	SB-18-0.5	8/31/21	0.20 U	0.41 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-18-2	8/31/21	0.20 U	0.31 I	0.20 U	1.6 U	0.20 U	0.40 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.40 U	0.099 U	0.40 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-18-4	8/31/21	0.19 U	0.19 U	0.19 U	1.5 U	0.19 U	0.38 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.38 U	0.095 U	0.38 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.19 U	0.19 U	
SB-19	SB-19-0.5	8/31/21	0.30 I	0.80 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-19-2	8/31/21	0.19 U	0.47 I	0.19 U	1.5 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.39 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.19 U	0.19 U	
	SB-19-4	8/31/21	0.20 U	0.20 U	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
SB-20	SB-20-0.5	8/31/21	0.19 U	0.69 I	0.19 U	1.5 U	0.19 U	0.38 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.38 U	0.096 U	0.38 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.19 U	0.19 U	
	SB-20-2	8/31/21	0.23 I	0.62 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-20-4	8/31/21	0.19 U	0.53 I	0.19 U	1.5 U	0.19 U	0.38 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.38 U	0.095 U	0.38 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.19 U	0.19 U	
SB-21	SB-21-0.5	9/1/21	0.22 U	1.0	0.22 U	1.7 U	0.22 U	0.43 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.43 U	0.17 I	0.69 I	0.40 I	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.22 U	0.22 U	
	SB-21-2	9/1/21	0.20 U	0.51 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.28 I	
	SB-21-4	9/1/21	0.22 I	0.99	0.20 U	1.6 U	0.20 U	0.39 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.39 U	0.099 U	0.39 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
SB-22	SB-22-0.5	9/1/21	1.5	8.0	0.28 U	2.2 U	0.28 U	0.56 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.56 U	0.63	0.86 I	0.30 I	0.14 U	0.82 I	0.14 U	0.53 I	0.14 U	0.58 I	0.14 U	0.28 U	0.48 I	0.28 U	0.28 U	0.42 I	
	SB-22-2	9/1/21	1.0	3.7	0.24 U	2.0 U	0.24 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49 U	0.23 I	0.49 U	0.24 U	0.12 U	0.53 I	0.12 U	0.45 I	0.12 U	0.27 I	0.12 U	0.24 U	0.46 I	0.24 U	0.24 U	0.24 U	
	SB-22-4	9/1/21	0.19 U	0.28 I	0.19 U	1.6 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.39 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.19 U	0.19 U	
SB-23	SB-23-0.5	9/1/21	1.6	8.0	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.67 I	0.60	0.82 I	0.61 I	0.13 U	0.76 I	0.13 U	0.41 I	0.13 U	0.38 I	0.13 U	0.26 U	0.76 I	0.26 U	0.26 U	0.26 U	
	SB-23-2	9/1/21	0.28 I	1.8	0.19 U	1.5 U	0.19 U	0.38 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.38 U	0.094 U	0.38 U	0.19 U	0.094 U	0.28 I	0.094 U	0.19 U	0.094 U	0.19 U	0.094 U	0.19 U	0.26 I	0.19 U	0.19 U	0.19 U	
	SB-2																													

**TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Et	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPrS	PFPeA	PFTeA	PFTriA	PFUnA	
Provisional SCTL - Leachability (µg/kg)			2	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Provisional SCTL - Residential (µg/kg)			1,300	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Provisional SCTL - Industrial			25,000	25,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-24	SB-24-0.5	9/1/21	0.51 I	2.9	0.23 U	1.8 U	0.23 U	0.46 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.46 U	0.29 I	1.0 I	0.43 I	0.11 U	0.33 I	0.11 U	0.23 U	0.11 U	0.26 I	0.11 U	0.23 U	0.23 U	0.25 I	0.23 U	0.23 U	
	SB-24-2	9/1/21	0.23 I	3.2	0.22 U	1.7 U	0.22 U	0.43 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.43 U	0.11 U	0.43 U	0.22 U	0.11 U	0.35 I	0.11 U	0.31 I	0.11 U	0.24 I	0.11 U	0.22 U	0.43 I	0.22 U	0.22 U	0.64 I	
	SB-24-4	9/1/21	0.20 U	0.61 I	0.20 U	1.6 U	0.20 U	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.39 U	0.098 U	0.39 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
SB-25	SB-25-0.5	9/1/21	0.55 I	3.1	0.28 U	2.2 U	0.28 U	0.56 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.56 U	0.55 I	0.79 I	0.32 I	0.14 U	0.63 I	0.14 U	0.28 U	0.14 U	0.32 I	0.14 U	0.28 U	0.36 I	0.28 U	0.28 U	0.36 I	
	SB-25-2	9/1/21	0.46 I	1.4	0.21 U	1.7 U	0.21 U	0.42 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.42 U	0.13 I	0.42 U	0.21 U	0.10 U	0.34 I	0.10 U	0.27 I	0.10 U	0.21 I	0.10 U	0.21 I	0.21 U	0.21 U	0.21 U	0.21 U	
	SB-25-4	9/1/21	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SB-26	SB-26-0.5	9/1/21	0.37 I	2.1	0.21 U	1.7 U	0.21 U	0.42 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.42 U	0.10 U	0.42 U	0.21 U	0.10 U	0.21 I	0.10 U	0.21 U	0.10 U	0.27 I	0.10 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	
	SB-26-2	9/1/21	0.20 U	0.65 I	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.22 I	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-26-4	9/1/21	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.42 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.42 U	0.10 U	0.42 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	
SB-27	SB-27-0.5	9/1/21	0.20 U	2.0	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.49 I	0.20 U	0.10 U	0.37 I	0.10 U	0.33 I	0.10 U	0.46 I	0.10 U	0.2 U	0.36 I	0.20 U	0.20 U	0.20 U	
	SB-27-2	9/1/21	0.20 U	0.28 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-27-4	9/1/21	0.20 I	1.5	0.19 U	1.6 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.39 U	0.19 U	0.097 U	0.30 I	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.30 I	0.19 U	0.19 U	0.19 U	
SB-28	SB-28-0.5	9/1/21	0.21 U	0.73 I	0.21 U	1.6 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.66 I	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.48 I	0.21 U	0.21 U
	SB-28-2	9/1/21	0.20 U	0.20 U	0.20 U	1.6 U	0.20 U	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.39 U	0.098 U	0.39 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-28-4	9/1/21	0.20 U	0.20 U	0.20 U	1.6 U	0.20 U	0.40 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.40 U	0.099 U	0.40 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
SB-29	SB-29-0.5	9/1/21	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.21 U	0.21 U	
	SB-29-2	9/1/21	0.18 U	0.18 U	0.18 U	1.4 U	0.18 U	0.35 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.35 U	0.088 U	0.35 U	0.18 U	0.088 U	0.18 U	0.088 U	0.18 U	0.088 U	0.18 U	0.088 U	0.18 U	0.088 U	0.18 U	0.18 U	0.18 U	
	SB-29-4	9/1/21	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.21 U	0.21 U	
SB-30	SB-30-0.5	9/1/21	0.20 U	1.8	0.20 U	1.6 U	0.20 U	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.39 U	0.21 I	0.39 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-30-2	9/1/21	0.18 U	1.0	0.18 U	1.5 U	0.18 U	0.37 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.37 U	0.092 U	0.37 U	0.18 U	0.092 U	0.18 U	0.092 U	0.18 U	0.092 U	0.18 U	0.092 U	0.18 U	0.092 U	0.18 U	0.18 U	0.18 U	
	SB-30-4	9/1/21	0.20 U	0.27 I	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
SB-31	SB-31-0.5	9/1/21	0.20 U	0.32 I	0.20 U	1.6 U	0.20 U	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.39 U	0.098 U	0.39 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-31-2	9/1/21	0.18 U	0.18 U	0.18 U	1.4 U	0.18 U	0.35 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.35 U	0.088 U	0.35 U	0.18 U	0.088 U	0.18 U	0.088 U	0.18 U	0.088 U	0.18 U	0.088 U	0.18 U	0.088 U	0.18 U	0.18 U	0.18 U	
	SB-31-4	9/1/21	0.19 U	0.19 U	0.19 U	1.5 U	0.19 U	0.38 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.38 U	0.094 U	0.38 U	0.19 U	0.094 U	0.19 U	0.094 U	0.19 U	0.094 U	0.19 U	0.094 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	
SB-32	SB-32-0.5	9/1/21	0.45 I	6.3	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.55	0.59 I	0.54 I	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 I	0.11 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	
	SB-32-2	9/1/21	0.19 U	1.1	0.19 U	1.5 U	0.19 U	0.38 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.38 U	0.096 U	0.38 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.19 U	0.19 U	
	SB-32-4	9/1/21	0.19 U	0.33 I	0.19 U	1.5 U	0.19 U	0.38 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.38 U	0.095 U	0.38 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.19 U	0.19 U	
SB-33	SB-33-0.5	9/2/21	0.21 U	3.1	0.21 U	1.7 U	0.21 U	0.42 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.42 U	0.15 I	0.42 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.21 U	0.21 U	
	SB-33-2	9/2/21	0.19 U	0.40 I	0.19 U	1.5 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.39 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.19 U	0.19 U	
	SB-33-4	9/2/21	0.19 U	0.69 I	0.19 U	1.5 U	0.19 U	0.37 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.37 U	0.094 U	0.37 U	0.19 U	0.094 U	0.19 U	0.094 U	0.19 U	0.094 U	0.19 U	0.094 U	0.19 U	0.094 U	0.19 U	0.19 U	0.19 U	
SB-34	SB-34-0.5	9/2/21	0.29 I	0.97	0.20 U	1.6 U	0.20 U	0.39 U	0.26 I	0.099 U	0.099 U	0.099 U	0.099 U	0.39 U	0.32 I	0.55 I	0.49 I	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.23 I	0.099 U	0.2 U	0.20 U	0.28 I	0.20 U	0.49 I	
	SB-34-2	9/2/21	0.20 U	0.24 I	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-34-4	9/2/21	0.19 U	0.19 U	0.19 U	1.5 U	0.19 U	0.38 U	0.095 U	0.095 U	0.095 U	0.095 U																		

**TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Et	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPoS	PFPeA	PFTeA	PFTriA	PFUnA	
Provisional SCTL - Leachability (µg/kg)			2	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Provisional SCTL - Residential (µg/kg)			1,300	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Provisional SCTL - Industrial			25,000	25,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-35	SB-35-0.5	9/2/21	0.37 I	1.9	0.21 U	1.7 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.77 I	0.15 I	0.88 I	0.24 I	0.10 U	0.38 I	0.10 U	1.6	0.10 U	3.6	0.10 U	0.21 U	3.2	0.21 U	0.34 I	0.73 I	
	SB-35-2	9/2/21	0.38 I	3.0	0.20 U	1.6 U	0.20 U	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.44 I	0.098 U	0.42 I	0.20 U	0.098 U	0.26 I	0.098 U	0.59 I	0.098 U	0.71 I	0.098 U	0.2 U	1.2	0.20 U	0.20 U	0.25 I	
	SB-35-4	9/2/21	0.19 U	0.68 I	0.19 U	1.5 U	0.19 U	0.38 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.38 U	0.095 U	0.38 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	
SB-36	SB-36-0.5	9/2/21	1.8	14	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.65 I	0.37 I	0.77 I	0.43 I	0.12 U	1.1	0.12 U	0.76 I	0.12 U	0.40 I	0.12 U	0.24 U	1.5	0.24 U	0.24 U	0.48 I	
	SB-36-2	9/2/21	0.45 I	4.3	0.21 U	1.7 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.21 U	0.10 U	0.24 I	0.10 U	0.26 I	0.10 U	0.21 U	0.10 U	0.21 U	0.48 I	0.21 U	0.21 U	0.21 U	
SB-37	SB-37-0.5	9/2/21	0.49 I	8.9	0.23 U	1.8 U	0.23 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.30 I	0.54 I	0.23 U	0.11 U	0.24 I	0.11 U	0.28 I	0.11 U	0.38 I	0.11 U	0.23 U	0.52 I	0.23 U	0.23 U	0.23 U	
	SB-37-2	9/2/21	0.20 U	5.4	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-37-4	9/2/21	0.21 U	0.76 I	0.21 U	1.7 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	
SB-38	SB-38-0.5	9/2/21	0.22 U	0.73 I	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.11 U	0.45 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
	SB-38-2	9/2/21	0.18 U	0.46 I	0.18 U	1.4 U	0.18 U	0.36 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.36 U	0.09 U	0.36 U	0.18 U	0.09 U	0.18 U	0.09 U	0.18 U	0.09 U	0.18 U	0.09 U	0.18 U	0.09 U	0.18 U	0.18 U	0.18 U	
	SB-38-4	9/2/21	0.20 U	0.31 I	0.20 U	1.6 U	0.20 U	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.39 U	0.098 U	0.39 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.20 U	0.20 U	
SB-39	SB-39-0.5	9/2/21	0.19 U	0.47 I	0.19 U	1.5 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.39 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	
	SB-39-2	9/2/21	0.22 I	0.95	0.20 U	1.6 U	0.20 U	0.40 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.40 U	0.099 U	0.40 U	0.20 U	0.099 U	0.20 U	0.19 I	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
	SB-39-4	9/2/21	0.20 U	0.24 I	0.20 U	1.6 U	0.20 U	0.39 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.39 U	0.098 U	0.39 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.098 U	0.20 U	0.20 U	0.20 U	
SB-40	SB-40-0.5	9/2/21	0.22 U	2.0	0.22 U	1.8 U	0.22 U	0.44 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.44 U	0.11 U	0.44 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.22 U	0.68 I	0.22 U
	SB-40-2	9/2/21	0.20 U	0.38 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.20 U	
	SB-40-4	9/2/21	0.21 U	0.35 I	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	0.42 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.21 U	0.21 U	
SB-41	SB-41-0.5	9/2/21	0.21 U	0.36 I	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	0.42 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.21 U	0.21 U	
	SB-41-2	9/2/21	0.20 U	0.33 I	0.20 U	1.6 U	0.20 U	0.40 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.40 U	0.099 U	0.40 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.099 U	0.20 U	0.20 U	0.20 U	
	SB-41-4	9/2/21	0.20 U	0.20 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.20 U	
SB-42	SB-42-0.5	9/2/21	0.21 U	4.6	0.21 U	1.7 U	0.21 U	0.43 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.43 U	0.11 U	0.43 U	0.21 U	0.11 U	0.21 U	0.11 U	0.34 I	0.37 I	0.11 U	0.21 U	0.11 U	0.21 U	0.45 I	0.21 U	1.0	2.5
	SB-42-2	9/2/21	0.19 U	0.61 I	0.19 U	1.5 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.39 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.19 U	0.30 I	
	SB-42-4	9/2/21	0.20 U	0.38 I	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.25 I	
SB-43	SB-43-0.5	9/2/21	0.20 U	0.81	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.30 I	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.20 U	
	SB-43-2	9/2/21	0.20 U	0.30 I	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.20 U	
	SB-43-4	9/2/21	0.20 U	0.20 U	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.20 U	
SB-44	SB-44-0.5	9/2/21	0.58 I	0.71 I	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	2.2	2.2	0.11 U	0.54 I	0.11 U	0.22 I	0.11 U	0.38 I	0.11 U	0.21 U	0.28 I	0.56 I	0.21 U	2.0	
	SB-44-2	9/2/21	0.59 I	1.6	0.21 U	1.7 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	1.2 I	0.30 I	0.10 U	0.47 I	0.10 U	0.27 I	0.10 U	0.62 I	0.10 U	0.21 U	0.32 I	0.21 U	0.55 I	0.54 I	
	SB-44-4	9/2/21	0.21 I	0.19 U	0.19 U	1.5 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.39 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.19 U	0.41 I	
SB-45	SB-45-0.5	9/2/21	0.19 U	0.21 I	0.19 U	1.6 U	0.19 U	0.39 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.39 U	0.097 U	0.49 I	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.097 U	0.19 U	0.19 U	0.49 I	
	SB-45-2	9/2/21	0.19 U	0.19 U	0.19 U	1.5 U	0.19 U	0.38 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.38 U	0.095 U	0.38 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.19 U	0.19 U	
	SB-45-4	9/2/21	0.20 U	0.20 U	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.20 U	0.29 I	
SB-46	SB-46-0.5	9/2/21	0.36 I	1.3	0.23 U	1.8 U	0.23 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.11 U	0.45 U	0.29 I	0.11 U	0.23 U	0.11 U	0.23 U	0.11 U	0.32 I	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	1.1	
	SB-46-2	9/2/21	0.26 I	0.73 I	0.21 U	1.7 U	0.21 U	0.42 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.42 U	0.10 U	0.42 U	0.21 U	0.10 U												

**TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Et	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPrS	PFPeA	PFTeA	PFTriA	PFUnA
Provisional SCTL - Leachability (µg/kg)			2	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			1,300	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial			25,000	25,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-47	SB-47-0.5	9/2/21	0.37 I	11	0.21 U	1.7 U	0.21 U	0.42 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.42 U	0.12 I	0.42 U	0.21 U	0.10 U	0.21 U	1.4	0.54 I	0.13 I	0.26 I	0.10 U	0.21 U	0.35 I	0.21 U	0.64 I	1.1
	SB-47-2	9/2/21	0.18 U	5.3	0.18 U	1.5 U	0.18 U	0.37 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.37 U	0.092 U	0.37 U	0.18 U	0.092 U	0.18 U	0.27 I	0.18 U	0.092 U	0.18 U	0.092 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	SB-47-4	9/2/21	0.19 U	4.0	0.19 U	1.5 U	0.19 U	0.39 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.39 U	0.096 U	0.39 U	0.19 U	0.096 U	0.19 U	0.16 I	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.096 U	0.19 U	0.19 U	0.19 U
SB-48	SB-48-0.5	10/13/21	0.20 U	0.21 I	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.14 I	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.79 I	0.10 U	0.20 U	0.13 I	0.2 U	0.28 I	0.20 U	0.20 U	0.20 U
	SB-48-2	10/13/21	0.21 U	2.0	0.21 U	1.6 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.23 I	0.41 U	0.10 U	0.41 U	0.21 U	0.10 U	0.39 I	3.7	1.4	0.10 U	0.21 U	0.74	0.21 U	0.31 I	0.21 U	0.21 U	0.21 U
	SB-48-4	10/13/21	0.32 I	5.7	0.21 U	1.6 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.13 I	0.41 U	0.10 U	0.41 U	0.21 U	0.18 I	0.69 I	7.8	0.69 I	0.10 U	0.21 U	0.85	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SB-49	SB-49-0.5	10/13/21	0.21 U	8.9	0.21 U	15	0.37 I	0.42 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.55 I	0.12 I	4.6	0.25 I	0.10 U	1.4	0.15 I	2.0	0.20 I	2.1	0.10 U	0.21 U	3.0	0.21 U	0.21 U	1.8
	SB-49-2	10/13/21	0.20 U	7.6	0.20 U	38	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.69 I	0.10 U	0.71 I	0.20 U	0.10 U	0.78 I	0.11 I	1.9	0.10 U	0.83	0.10 U	0.2 U	3.8	0.20 U	0.20 U	0.20 U
	SB-49-4	10/13/21	0.29 I	4.3	0.21 U	22	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.21 U	0.10 U	0.58 I	0.10 U	0.77 I	0.10 U	0.64 I	0.10 U	0.21 U	1.3	0.21 U	0.21 U	0.21 U
SB-50	SB-50-0.5	10/15/21	0.21 U	1.1	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	0.96 I	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.21 U	0.21 U	0.21 U	0.29 I
	SB-50-2	10/15/21	0.20 U	0.93	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.29 I	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U
	SB-50-4	10/15/21	0.21 U	0.35 I	0.21 U	1.7 U	0.21 U	0.42 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.42 U	0.10 U	0.42 U	0.21 U	0.10 U	0.31 I	0.10 U	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
SB-51	SB-51-0.5	10/15/21	2.7	110	0.20 U	1.6 U	0.82	0.41 U	0.10 U	0.21 I	1.9	0.13 I	0.89	0.41 U	0.10 U	0.41 U	0.20 U	1.7	1.8	16	2.0	0.10 U	0.20 U	0.94	0.36 I	1.4	0.20 U	0.20 U	0.20 U
	SB-51-2	10/15/21	0.60 I	10	0.19 U	1.5 U	0.26 I	0.37 U	0.093 U	0.11 I	0.72	0.093 U	0.37 I	0.37 U	0.093 U	0.37 U	0.19 U	0.22 I	1.3	7.4	1.6	0.093 U	0.19 U	1.3	0.19 U	0.58 I	0.19 U	0.19 U	0.19 U
	SB-51-4	10/15/21	1.1	18	0.20 U	3.8 I	0.87	0.41 U	0.10 U	0.19 I	0.77	0.10 U	0.46	0.41 U	0.10 U	0.41 U	0.20 U	0.40 I	1.1	8.6	1.6	0.10 U	0.20 U	1.0	0.2 U	0.74 I	0.20 U	0.20 U	0.20 U
SB-52	SB-52-0.5	10/15/21	0.20 U	1.8	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.14 I	0.10 U	0.10 U	0.40 U	0.10 U	0.40 U	0.20 U	0.10 U	0.26 I	0.22 I	0.23 I	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U
	SB-52-2	10/15/21	0.19 U	0.19 U	0.19 U	1.5 U	0.19 U	0.38 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.38 U	0.095 U	0.38 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.095 U	0.19 U	0.19 U	0.19 U
	SB-52-4	10/15/21	0.20 U	0.20 U	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.20 U	0.10 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U

**TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Et	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPrS	PFPeA	PFTeA	PFTriA	PFUnA
Provisional SCTL - Leachability (µg/kg)			2	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			1,300	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial			25,000	25,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SB-53	SB-53-0.5	10/15/21	0.21 U	1.4	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	0.42 U	0.21 U	0.11 U	0.21 U	0.54	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SB-53-2	10/15/21	0.21 U	1.0	0.21 U	1.7 U	0.21 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.34 U	0.21 U	0.10 U	0.25 I	0.82	0.21 U	0.10 U	0.21 U	0.12 I	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	SB-53-4	10/15/21	0.20 U	1.7	0.20 U	1.6 U	0.20 U	0.40 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.40 U	0.099 U	0.40 U	0.20 U	0.099 U	0.30 I	1.6	0.20 U	0.099 U	0.20 U	0.19 I	0.31 I	0.20 U	0.20 U	0.20 U	0.20 U

Notes:
 Provisional SCTL - FDEP Provisional Soil Cleanup Target Level
 All results are reported in micrograms per kilogram (µg/kg)
 Bold font indicates constituent concentration was reported above the laboratory method detection limit.
 Highlighted font indicates constituent concentration was reported above the FDEP Provisional Soil Cleanup Target Level.
 I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
 U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
 * - Additional PFAS analyte concentrations are can be reviewed in the October, 2021 Terracon Consultants, Inc. Limited PFAS Soil and Groundwater Assessment Report

PFOA	Perfluorooctanoic acid	PFDoA	Perfluorododecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFHpS	Perfluoroheptanesulfonic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxA	Perfluorohexanoic acid
HFPO-DA	Hexafluoropropylene oxide dimer acid	PFNS	Perfluorononanesulfonic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPrS	Perfluoropropanesulfonic acid
FOSA	Perfluoro-1-octane sulfonamide	PFPeA	Perfluoropentanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTeA	Perfluorotetradecanoic acid
PFBA	Perfluorobutanoic acid	PFTriA	Perfluorotridecanoic acid
PFDS	Perfluorodecanesulfonic acid	PFUnA	Perfluoroundecanoic acid
PFDA	Perfluorodecanoic acid		

**TABLE 3
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SEDIMENT**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Rt	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA
Provisional SCTL - Leachability (µg/kg)			2	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			1,300	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			25,000	25,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SED-1	SED-1	9/1/21	0.29 U	0.29 U	0.29 U	2.3 U	0.29 U	0.57 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	0.14 U	0.57 U	0.29 U	0.14 U	0.29 U	0.14 U	0.29 U	0.14 U	0.29 U	0.14 U	0.29 U	0.29 U	0.29 U	0.29 U
SED-2	SED-2	9/1/21	0.27 U	0.27 U	0.27 U	2.2 U	0.27 U	0.54 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.54 U	0.14 U	0.54 U	0.27 U	0.14 U	0.27 U	0.14 U	0.27 U	0.14 U	0.27 U	0.14 U	0.27 U	0.27 U	0.27 U	0.27 U
SED-3	SED-3	9/1/21	0.26 U	0.33 I	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.52 U	0.13 U	0.52 U	0.26 U	0.13 U	0.26 U	0.13 U	0.26 U	0.13 U	0.26 U	0.13 U	0.26 U	0.26 U	0.65 I	

Notes:
 Provisional SCTL - FDEP Provisional Soil Cleanup Target Level
 All results are reported in micrograms per kilogram (µg/kg)
 Bold font indicates constituent concentration was reported above the laboratory method detection limit.
 Highlighted font indicates constituent concentration was reported above the Provisional FDEP Soil Cleanup Target Level.
 I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
 U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDoA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HFPO-DA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid		

**TABLE 4
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SURFACE WATER**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDaA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA
Provisional SWSL (Human Health)			500	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SW-1	SW-1	9/1/21	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	4.5 I	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.6 I	0.40 U	2.0 U	0.40 U	4.2 I	2.0 U	2.0 U	2.0 U
SW-2	SW-2	9/1/21	9.1	15	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.54 I	0.40 U	0.40 U	4.1	13 I	0.40 U	4.0 U	2.0 U	0.80 U	4.7 I	3.1 I	11	0.40 U	2.0 U	0.51 I	13	2.0 U	2.0 U	2.0 U
SW-3	SW-3	9/1/21	6.7 I	14	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.48 I	0.40 U	0.40 U	3.4	13 I	0.40 U	4.0 U	2.0 U	0.80 U	4.4 I	3.1 I	8.5	0.40 U	2.0 U	0.54 I	14	2.0 U	2.0 U	2.0 U
	DUP-SW-3	9/1/21	6.3 I	15	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.50 I	0.40 U	0.40 U	3.2	13 I	0.40 U	4.0 U	2.0 U	0.80 U	4.3 I	3.3	9.6	0.40 U	2.0 U	0.54 I	13	2.0 U	2.0 U	2.0 U

Notes:
 Provisional SWSL - FDEP Provisional Surface Water Screening Level
 All results are reported in nanograms per liter (ng/L)
 Bold font indicates constituent concentration was reported above the laboratory method detection limit.
 Highlighted font indicates constituent concentration was reported above the Provisional FDEP Surface Water Screening Level for human health.
 I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
 U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDaA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HFPO-DA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid		

**TABLE 5
SUMMARY OF DETECTED PFAS CONSTITUENTS IN GROUNDWATER
VERTICAL PROFILING LOCATIONS**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	PFOA + PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA
Provisional GCTL (ng/L)			70	70	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VP-1	VP-1-16-20	10/12/2021	2.0 U	4.1 I	4.1 I	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	0.45 I	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.4 I	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	3.0 I	2.0 U	2.0 U	2.0 U
	VP-1-26-30	10/12/2021	8.5	6.2 I	14.7	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	1.8	25	0.40 U	4.0 U	2.0 U	0.80 U	6.0 I	0.80 U	12	0.40 U	5.1 I	0.40 U	31	2.0 U	2.0 U	2.0 U
	VP-1-36-40	10/12/2021	2.1 I	5.1 I	7.2	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	0.80 I	4.3 I	0.40 U	4.0 U	2.0 U	0.80 U	2.4 I	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	3.8 I	2.0 U	2.0 U	2.0 U
	VP-1-46-50	10/12/2021	4.2 I	37	41.2	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	1.8	2.9	0.40 U	7.3	6.6 I	0.40 U	4.0 U	2.0 U	0.80 U	3.6 I	5.2	3.4 I	0.40 U	2.0 U	0.93 I	5.9 I	2.0 U	2.0 U	2.1 I
VP-2	VP-2-16-20	10/12/2021	270	3,700	3,970	2.0 U	1,300	920	4.0 U	0.80 U	0.80 U	27	970	54	17	190	0.96 I	60	4.8 I	69	400	500	530	8.8	86	29	560	2.0 U	2.0 U	28
	VP-2-26-30	10/12/2021	29	140	169	2.0 U	190	140	4.0 U	0.80 U	0.80 U	4.6	33	11	5.0	53	1.4 I	30	11	2.3 I	67	42	130	0.61 I	17	5.3	190	2.0 U	2.0 U	28
	VP-2-36-40	10/12/2021	58	470	528	2.0 U	230	300	4.0 U	0.80 U	0.80 U	6.8	99	16	5.8	87	1.5 I	46	8.8	6.0	110	89	230	0.85 I	26	6.4	280	2.0 U	2.0 U	25
	VP-2-46-50	10/12/2021	10	170	180	4.8 I	180	37	4.0 U	0.80 U	0.80 U	17.0	18	0.69 I	13	26	0.40 U	4.0 U	2.0 U	2.2 I	20	71	58	0.40 U	2.0 U	11	91	2.0 U	2.0 U	2.0 U
	DUP-VP-2-46-50	10/12/2021	11	150	161	5.2 I	170	31	4.0 U	0.80 U	0.80 U	16	16	0.66 I	12	25	0.40 U	4.0 U	2.0 U	2.3 I	21	64	55	0.40 U	2.0 U	9.6	81	2.0 U	2.0 U	2.0 U
VP-3	VP-3-16-20	10/13/2021	3.6 I	12	15.6	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	3.9	6.3 I	0.40 U	4.0 U	2.0 U	0.80 U	3.7 I	52	2.5 I	0.40 U	2.0 U	5.0	3.9 I	2.0 U	2.0 U	2.0 U
	VP-3-26-30	10/13/2021	3.6 I	7.7 I	11.3	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	3.6	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	3.7 I	19	2.1 I	0.40 U	2.0 U	2.6	2.3 I	2.0 U	2.0 U	2.0 U
	VP-3-36-40	10/13/2021	2.0 U	11	11	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	7.8	9.4 I	0.40 U	4.0 U	2.0 U	0.80 U	2.5 I	30	2.0 U	0.40 U	2.0 U	4.4	2.0 U	2.0 U	2.0 U	
	VP-3-46-50	10/13/2021	7.7 I	200	207.7	2.0 U	16 U	2.1 I	4.0 U	0.80 U	0.80 U	6.6	65	1.2 I	16	9.5 I	0.40 U	4.0 U	2.0 U	3.3	7.2 I	91	11	1.8	2.0 U	6.3	9.4	2.0 U	2.0 U	2.0 U
VP-4	VP-4-16-20	10/14/2021	9.5	630	639.5	2.0 U	16 U	2.0 U	4.1 U	0.82 U	0.82 U	0.41 U	0.41 U	0.41 U	2.5	12 I	0.41 U	4.1 U	2.0 U	1.5 I	11	19	21	0.41 U	5.8 I	1.1 I	30	2.0 U	2.0 U	2.0 U
	VP-4-26-30	10/14/2021	4.9 I	310	314.9	2.0 U	16 U	4.5 I	4.0 U	0.80 U	0.80 U	0.40 U	0.59 I	0.40 U	1.2 I	6.3 I	0.40 U	4.0 U	2.0 U	0.80 U	7.6 I	15	13	0.40 U	2.0 U	0.8 I	17	2.0 U	2.0 U	2.0 U
	VP-4-36-40	10/14/2021	5.6 I	160	165.6	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	1.5 I	8.2 I	0.40 U	4.0 U	2.0 U	0.80 U	8.2	12	17	0.40 U	2.0 U	0.66 I	23	2.0 U	2.0 U	2.0 U
	VP-4-46-50	10/14/2021	9.6	190	199.6	2.0 U	72	14	4.0 U	0.80 U	0.80 U	2.6	20	0.78 I	4.7	12 I	0.40 U	4.0 U	2.0 U	2.9 I	17	53	27	0.40 U	2.0 U	3.8	36	2.0 U	2.0 U	2.0 U
VP-5	VP-5-16-20	10/14/2021	10	31	41	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	1.6	10 I	0.40 U	4.0 U	2.0 U	0.80 U	6.5 I	6.1	13	0.40 U	2.0 U	0.62 I	21	2.0 U	2.0 U	2.0 U
	DUP-VP-5-16-20	10/14/2021	12	31	43	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	1.6 I	10 I	0.40 U	4.0 U	2.0 U	0.80 U	7.0 I	5.7	14	0.40 U	2.0 U	0.59 I	20	2.0 U	2.0 U	2.0 U
	VP-5-26-30	10/14/2021	6.3 I	28	34.3	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	2.1	9.1 I	0.40 U	4.0 U	2.0 U	0.80 U	4.9 I	5.0	9.4	0.40 U	2.0 U	0.46 I	14	2.0 U	2.0 U	2.0 U
	VP-5-36-40	10/14/2021	5.0 I	28	33	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	6.6	1.5 I	0.40 U	9.4	8.0 I	0.40 U	4.0 U	2.0 U	0.80 U	4.5 I	6.1	7.5 I	0.40 U	2.0 U	0.99 I	9.4	2.0 U	2.0 U	2.0 U
	VP-5-46-50	10/14/2021	3.1 I	33	36.1	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	13	1.8	0.40 U	16	4.3 I	0.40 U	4.0 U	2.0 U	0.80 U	3.3 I	6.6	5.7 I	0.40 U	2.0 U	0.72 I	4.7 I	2.0 U	2.0 U	2.0 U

Notes:
 Provisional GCTL - FDEP Provisional Groundwater Cleanup Target Level
 All results are reported in nanograms per liter (ng/L)
 Bold font indicates constituent concentration was reported above the laboratory method detection limit.
 Highlighted font indicates constituent concentration was reported above the Provisional FDEP Groundwater Cleanup Target Level.
 I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
 U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
 J - Estimated value and/or the analysis did not meet established quality control criteria.

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDoA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HFPO-DA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid		

**TABLE 6
GROUNDWATER ELEVATION SUMMARY**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

WELL DESIGNATION	MW-1W			MW-1E			MW-2			MW-3			DEPMW-1S			DEPMW-2S			DEPMW-3S		
DIAMETER	2	in		2	in		2	in		2	in		0.75	in		0.75	in		0.75	in	
WELL DEPTH	17	ft		17	ft		17	ft		17	ft		2	ft		2	ft		2	ft	
SCREEN INTERVAL	7-17	ft		7-17	ft		7-17	ft		7-17	ft		2-12	ft		2-12	ft		2-12	ft	
TOC ELEVATION ¹	7.03	ft		6.84	ft		6.38	ft		6.97	ft		6.50	ft		6.87	ft		6.62	ft	
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
12/18/2019	-0.97	8.00	--	0.24	6.60	--	0.26	6.12	--	0.27	6.70	--	NI			NI			NI		
2/01/2020	0.33	6.70	--	0.44	6.40	--	0.48	5.90	--	0.69	6.28	--	NI			NI			NI		
4/27/2021	0.28	6.75	--	0.31	6.53	--	0.25	6.13	--	0.23	6.74	--	NI			NI			NI		
2/28/2022	0.42	6.61	--	0.49	6.35	--	0.34	6.04	--	0.34	6.63	--	0.32	6.18		0.50	6.37		0.39	6.23	
WELL DESIGNATION	DEPMW-4S			DEPMW-5S			DEPMW-6S			DEPMW-7S			DEPMW-8S			DEPMW-9S			DEPMW-10S		
DIAMETER	0.75	in		0.75	in		0.75	in			in		0.75	in		0.75	in		0.75	in	
WELL DEPTH	2	ft		2	ft		2	ft			ft		2	ft		2	ft		2	ft	
SCREEN INTERVAL	2-12	ft		2-12	ft		2-12	ft			ft		2-12	ft		2-12	ft		2-12	ft	
TOC ELEVATION ¹	6.84	ft		6.96	ft		6.47	ft		6.41	ft		NM	ft		7.27	ft		6.79	ft	
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
12/18/2019	NI			NI			NI			NI			NI			NI			NI		
2/01/2020	NI			NI			NI			NI			NI			NI			NI		
4/27/2021	NI			NI			NI			NI			NI			NI			NI		
2/28/2022	0.49	6.35		0.46	6.50		0.31	6.16		0.41	6.00		Destroyed			0.30	6.97		0.49	6.30	
WELL DESIGNATION	DEPMW-11S			DEPMW-1D			DEPMW-2D			DEPMW-3D			DEPMW-4D			DEPMW-5D			DEPMW-6D		
DIAMETER	0.75	in		2	in		2	in		2	in		2	in		2	in		2	in	
WELL DEPTH	2	ft		80	ft		80	ft		80	ft		80	ft		80	ft		79.5	ft	
SCREEN INTERVAL	2-12	ft		70-80	ft		70-80	ft		70-80	ft		70-80	ft		70-80	ft		69.5-79.5	ft	
TOC ELEVATION ¹	7.76	ft		6.63	ft		7.05	ft		6.44	ft		6.40	ft		6.80	ft		8.39	ft	
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
12/18/2019	NI			NI			NI			NI			NI			NI			NI		
2/01/2020	NI			NI			NI			NI			NI			NI			NI		
4/27/2021	NI			NI			NI			NI			NI			NI			NI		
2/28/2022	0.36	7.40		0.35	6.28		0.32	6.73		0.34	6.10		0.25	6.15		0.26	6.54		0.31	8.08	

**TABLE 6
GROUNDWATER ELEVATION SUMMARY**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

WELL DESIGNATION	DMW-1																							
DIAMETER	2 in			in			in			in			in			in			in			in		
WELL DEPTH	35 ft			ft			ft			ft			ft			ft			ft			ft		
SCREEN INTERVAL	30-35 ft			ft			ft			ft			ft			ft			ft			ft		
TOC ELEVATION ¹	6.45 ft			ft			ft			ft			ft			ft			ft			ft		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
12/18/2019	0.25	6.20	--																					
2/12/2020	0.45	6.00	--																					
4/27/2021	0.23	6.22	--																					
2/28/2022	0.34	6.11	--																					

Notes:
¹ - Survey Report, dated April 11, 2022
 in - inch
 ft - feet
 UNK - Unknown
 TOC Elevation - top of casing elevation - feet NAVD 1988
 ELEV - elevation (feet)
 DTW - depth to water (feet)
 FP - free product (feet)
 NM - not measured
 NI - not installed

**TABLE 7
GROUNDWATER FIELD PARAMETERS**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample Date	pH (SU)	Temperature (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)
MW-1D	3/1/22	6.95	24.3	549 J	0.13	7.55	-31.9
MW-1-E	3/1/22	6.86	23.3	193.5 J	0.11	1.63	2.3
MW-2	3/1/22	7.05	25.4	339.3 J	0.43	1.5	68.6
MW-3	3/2/22	6.75	25.6	438.3 J	0.09	6.40	-10.7
DEPMW-1S	3/2/22	7.14	24.1	446.3 J	0.76	3.93	-20.9
DEPMW-2S	3/1/22	6.51	27.4	629 J	0.20	11.80	-8.0
DEPMW-3S	3/2/22	6.30	28.6	590 J	0.13	3.69	24.7
DEPMW-4S	3/1/22	6.51	27.2	184.3 J	0.43	24.00	14.3
DEPMW-5S	3/2/22	6.88	24.9	417.3 J	0.12	4.18	-56.1
DEPMW-6S	3/1/22	6.29	25.9	370.9 J	0.24	5.7	18.5
DEPMW-7S	3/1/22	7.18	26.0	354.8 J	1.01	4.0	57.7
DEPMW-9S	3/1/22	6.93	25.3	560 J	0.12	9.79	-14.1
DEPMW-10S	3/1/22	6.50	25.7	178.7 J	1.00	38.90	11.9
DEPMW-11S	3/1/22	7.05	26.5	537 J	0.15	1.98	11.5
DMW-1	3/2/22	7.20	29.1	199.0 J	0.11	447.00	-31.6
DEPMW-1D	3/2/22	8.18	27.6	314.5 J	0.07	1.39	-136.2
DEPMW-2D	3/2/22	6.82	27.0	322.1 J	0.03	34.80	33.1
DEPMW-3D	3/1/22	10.79	27.5	540 J	0.07	1.35	-48.2
DEPMW-4D	3/2/22	8.19	26.2	391.5 J	0.08	2.26	-169.2

TABLE 7
GROUNDWATER FIELD PARAMETERS

Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421

Sample Location	Sample Date	pH (SU)	Temperature (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)
DEPMW-5D	3/2/22	7.82	26.6	316.6 J	0.08	10.30	-126.7
DEPMW-6D	3/2/22	7.60	26.9	325.9 J	0.07	0.90	-91.2
WELL 1	3/2/22	7.80	26.1	376.5 J	4.46	1.87	7.4
WELL 4	3/2/22	7.59	26.0	435.8 J	4.48	2.09	-73.5
WELL 10	3/2/22	7.55	27.4	411.9 J	3.39	2.16	21.9
WELL 11	3/2/22	8.59	24.6	186.6 J	5.34	5.36	2.8
WELL 12	3/2/22	7.56	26.5	318.8 J	4.54	3.73	86.0

Notes:

mg/L - milligrams per liter

SU - standard units

µS/cm - microsiemens per centimeter

°C - degrees Celsius

mV - millivolts

NTU - Nephelometric Turbidity Units

DO - dissolved oxygen

ORP - oxidation-reduction potential

NM - not measured

J - Calibrations or calibration verifications did not meet calibration acceptance criteria for 200 µs/cm standard.

**TABLE 8
SUMMARY OF DETECTED PFAS CONSTITUENTS IN GROUNDWATER**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	PFOA + PFOS	6:2 FTS	N-Et	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTrIA	PFUnA
Provisional GCTL (ng/L)			70	70	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPMW-1S	DEPMW-1S	3/2/22	2.0 U	3.2 I	3.2 I	16 U	0.80 U	0.80 U	0.80 U	0.40 U	2.3	5.5 I	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	2.6 I	2.0 U	2.0 U	2.0 U
DEPMW-1D	DEPMW-1D	3/2/22	2.2 I	5.6 I	7.8 I	16 U	0.80 U	0.80 U	0.80 U	0.40 U	1.2 I	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.1 I	0.83 I	6.0 I	0.40 U	2.0 U	0.40 U	12	2.0 U	2.0 U	2.0 U
DEPMW-2S	DEPMW-2S	3/1/22	290	2,400	2,690	730	0.80 U	54	270	19	100	240	0.40 U	8.7 I	2.0 U	100	310	2,700	570	1.5 I	21	270	550	2.0 U	2.0 U	2.0 U
DEPMW-2D	DEPMW-2D	3/2/22	2.7 I	6.8 I	9.5 I	16 U	0.80 U	0.80 U	0.80 U	0.40 U	1.3 I	4.3 I	0.40 U	4.0 U	2.0 U	0.80 U	2.9 I	1.3 I	5.7 I	0.40 U	2.0 U	0.40 U	13	2.0 U	2.0 U	2.0 U
DEPMW-3S	DEPMW-3S	3/2/22	980	22,000	22,980	23,000	0.80 U	370	1,800	3.5	350	1,100	0.40 U	11 I	2.0 U	300	1,600	6,100	2,900	3.1	97	540	4,400	2.0 U	2.0 U	2.0 U
DEPMW-3D	DEPMW-3D	3/1/22	3.5 I	6.1 I	9.6 I	62 I	0.80 U	0.80 U	1.9 I	0.40 U	0.42 I	4.0 I	0.40 U	4.0 U	2.0 U	0.80 U	5.5 I	2.2 I	15	0.40 U	2.0 U	0.40 U	20	2.0 U	2.0 U	2.0 U
DEPMW-4S	DEPMW-4S	3/1/22	16	320	336	36 I	0.80 U	0.80 U	0.80 U	0.40 U	6.3	190	0.40 U	10 I	2.0 U	1.2 I	150	21	230	0.40 U	37	3.3	500	2.0 U	2.0 U	2.0 U
DEPMW-4D	DEPMW-4D	3/2/22	6.3 I	100	106.3 I	17 I	0.80 U	11	39	0.40 U	4.8	4.0 I	0.40 U	4.0 U	2.0 U	1.5 I	3.2 I	21	8.0 I	0.40 U	2.0 U	3.5	9.0	2.0 U	2.0 U	3.1 I
DEPMW-5S	DEPMW-5S	3/2/22	2.0 U	11	11	16 U	0.80 U	0.80 U	0.80 U	0.40 U	4.5	6.1 I	0.40 U	4.0 U	2.0 U	0.96 I	2.0 U	33	2.0 U	0.40 U	2.0 U	3.0	2.0 U	2.0 U	2.0 U	2.0 U
DEPMW-5D	DEPMW-5D	3/2/22	6.3 I	97	103.3 I	21 I	0.80 U	17	67	0.42 I	7.8	4.4 I	0.40 U	4.0 U	2.0 U	1.4 I	3.6 I	28	13	0.40 U	2.0 U	4.1	12	2.0 U	2.0 U	2.0 U
	DUP-DEPMW-5D	3/2/22	6.3 I	110	116.3	22 I	0.80 U	19	76	0.46 I	7.7	4.6 I	0.40 U	4.0 U	2.0 U	1.3 I	4.0 I	29	12	0.40 U	2.0 U	4.1	12	2.0 U	2.0 U	2.0 U
DEPMW-6S	DEPMW-6S	3/1/22	3.6 I	35	38.6 I	16 U	0.80 U	0.80 U	0.80 U	0.40 U	1.1 I	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	1.1 I	2.0 U	0.40 U	2.0 U	0.40 U	2.0 U	2.0 U	2.0 U	2.0 U
DEPMW-6D	DEPMW-6D	3/2/22	7.1 I	120	127.1 I	40 I	0.80 U	15	32	0.56 I	3.4	4.1 I	0.40 U	4.0 U	2.0 U	1.6 I	6.4 I	27	14	0.40 U	2.0 U	4.1	16	2.0 U	2.0 U	2.0 U
	DUP-DEPMW-6D	3/2/22	6.9 I	140	146.9	33 I	0.80 U	16	32	0.69 I	3.3	4.4 I	0.40 U	4.0 U	2.0 U	1.4 I	6.8 I	23	15	0.40 U	2.0 U	4.1	18	2.0 U	2.0 U	2.0 U
DEPMW-7S	DEPMW-7S	3/1/22	14	400	414	16 U	0.80 U	0.80 U	0.80 U	0.40 U	4.9	37	0.40 U	4.0 U	2.0 U	2.2 I	22	36	45	0.40 U	4.6 I	4.1	97	2.0 U	2.0 U	2.0 U
DEPMW-9S	DEPMW-9S	3/1/22	19	110	129	16 U	0.80 U	0.80 U	0.80 U	0.40 U	2.1	14 I	0.40 U	4.0 U	2.0 U	0.80 U	14	10	26	0.40 U	2.2 I	0.96 I	35	2.0 U	2.0 U	2.0 U
DEPMW-10S	DEPMW-10S	3/1/22	13	11	24	40 I	0.80 U	2.0 I	0.96 I	0.40 U	3.5	250	0.40 U	8.0 I	3.3 I	0.80 U	150	4.1	340	0.40 U	9.8	1.1 I	670	2.0 U	2.0 U	3.3 I
DEPMW-11S	DEPMW-11S	3/1/22	40	140	180	16 U	0.80 U	0.80 U	0.80 U	0.40 U	2.3	5.4 I	0.40 U	4.0 U	2.0 U	3.7	5.6 I	3.2 I	6.7 I	0.40 U	2.0 U	0.74 I	5.7 I	2.0 U	2.0 U	2.0 U
DMW-1	DMW-1	12/18/19	170	1900	2,070	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	DMW-1	2/11/20	110	540	650	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	DMW-1	3/2/22	52	230	282	270	0.80 U	9.0	96	21	6.2	83	2.7	49	7.9 I	2.3 I	110	53	190	1.9	18	7.6	300	2.0 U	2.0 U	23
MW-1E	MW-1E	12/18/19	16	15	31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	MW-1E	2/11/20	1.4 I	2.6	4.0 I	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	MW-1E	3/1/22	9.6	6.0 I	15.6 I	16 U	0.80 U	1.5 I	0.80 U	0.40 U	8.3	24	0.40 U	4.0 U	2.0 U	0.80 U	19	6.1	32	0.40 U	2.4 I	1.3 I	46	2.0 U	2.0 U	2.0 U

**TABLE 8
SUMMARY OF DETECTED PFAS CONSTITUENTS IN GROUNDWATER**

**Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421**

Sample Location	Sample ID	Sample Date	PFOA	PFOS	PFOA + PFOS	6:2 FTS	N-Et	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA
Provisional GCTL (ng/L)			70	70	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1W	MW-1W	12/18/19	76	57	133	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	MW-1W	2/11/20	0.79 U	0.5 U	0.79 U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	MW-1W	3/1/22	62	41	103	1,200	0.80 U	11	5.4	0.40 U	5.7	160	0.40 U	14 I	2.2 I	1.5 I	240	12	350	0.40 U	12	1.8	720	2.0 U	2.0 U	3.7 I
	DUP-MW-1W	3/1/22	64	35	99	1,100	0.80 U	13	6.1	0.40 U	5.6	150	0.40 U	16	2.2 I	1.2 I	250	11	350	0.40 U	11	1.8	680	2.0 U	2.0 U	4.2 I
MW-2	MW-2	12/18/19	3.5	7.5	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	MW-2	2/11/20	48	2	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	MW-2	3/1/22	3.8 I	60	63.8 I	16 U	0.80 U	0.80 U	0.80 U	0.40 U	1.0 I	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	1.4 I	2.0 U	0.40 U	2.0 U	0.40 U	5.2 I	2.0 U	2.0 U	2.0 U
MW-3	MW-3	12/18/19	0.77 U	6.1 J	6.5 J	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	MW-3	3/2/22	2.0 U	10	10	16 U	0.80 U	0.80 U	0.80 U	0.40 U	2.0	15 I	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	15	2.4 I	0.40 U	2.0 U	0.7 I	3.2 I	2.0 U	2.0 U	2.0 U
Well 1	Well 1	2/28/20	4	63.5	67.5	*	*	*	*	*	3.5 I	5 I	*	*	*	*	1.2 I	2.4 I	1.2 I	*	*	*	2.3 I	*	*	11.3
	Well 1	3/2/22	5.8 I	86	98.1 I	16 U	0.80 U	13	12	0.40 U	23	5.3 I	0.40 U	4.0 U	2.0 U	0.83 I	2.0 U	8.9	4.1 I	0.40 U	2.0 U	1.1 I	4.5 I	2.0 U	2.0 U	17
Well 4	Well 4	2/28/20	5.1	98.8	103.9	2.1 I	*	*	*	*	4.4	6.6 I	*	*	R	1.5 I	2.1 I	15.2	4.3	*	*	2.2 I	5.9	*	*	*
	Well 4	3/2/22	12	79	91	16 U	0.80 U	5.6	12	0.40 U	13	12 I	0.40 U	4.0 U	2.0 U	0.96 I	5.4 I	11	11	0.40 U	2.0 U	2.1	14	2.0 U	2.0 U	3.4 I
Well 10	Well 10	2/28/20	7.9	93.5	101.4	57.2	*	*	*	*	3.2	10.2	*	1.4 I	*	2 I	12.5	27.4	20.7	*	1.8 I	3 I	29.9	*	*	*
	Well 10	3/1/22	9.6	77	86.6	52 I	0.80 U	5.7	20	0.90 I	7.3	12 I	0.40 U	4.0 U	2.0 U	1.1 I	15	20	26	0.40 U	2.0 U	2.5	35	2.0 U	2.0 U	2.0 U
Well 11	Well 11	2/28/20	1.4 I	1.5 I	2.9 I	*	*	*	*	*	*	9.1	*	*	*	*	*	*	1.4 I	*	*	*	2.2 I	*	*	*
	Well 11	3/2/22	2.0 U	2.0 U	2.0 U	16 U	0.80 U	0.80 U	0.80 U	0.40 U	0.40 U	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	4.0 I	0.40 U	2.0 U	0.40 U	3.1 I	2.0 U	2.0 U	2.0 U
Well 12	Well 12	2/28/20	12.8	201	213.8	134	*	*	5.9	1.8 I	*	18.5	*	2.4 I	*	4	24.3	56.5	41.1	*	2.8 I	6.6	64.1	*	*	*
	Well 12	3/1/22	78	1,600	1,678	1200	0.80 U	21	550	19	15	83	1.0 I	16 I	2.0 U	11	130	290	210	2.4	11	23	280	2.0 U	2.0 U	2.8 I

Notes:
 Provisional GCTL - FDEP Provisional Groundwater Cleanup Target Level
 All results are reported in nanograms per liter (ng/L)
 Bold font indicates constituent concentration was reported above the laboratory method detection limit.
 Highlighted font indicates constituent concentration was reported above the Provisional FDEP Groundwater Cleanup Target Level.
 I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
 U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
 J - Estimated value and/or the analysis did not meet established quality control criteria.
 * - Additional PFAS analyte concentrations are can be reviewed in the October, 2021 Terracon Consultants, Inc. Limited PFAS Soil and Groundwater Assessment Report

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDoA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HODA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid		

TABLE 9
SUMMARY OF PERCENT RELATIVE ABUNDANCE OF PFAS CONSTITUENTS IN GROUND WATER

Miami Dade College Fire Training Facility
Miami, Dade County, Florida
Facility ID No. ERIC_7421

Table with columns: Sample Location, Sample ID, Sample Date, Concentration (ng/L) for various PFAS, Percent Relative Abundance for various PFAS, and Comments. Rows include DEPMMW-1S through DEPMMW-11S, DMW-1, MW-1E, MW-1W, MW-2, MW-3, Well 1, Well 4, Well 10, Well 11, and Well 12.

Notes:
Provisional GCTL - FDEP Provisional Groundwater Cleanup Target Level
All results are reported in nanograms per liter (ng/L).

Please refer to Table 8 for additional details regarding groundwater analytical results.

Concentrations of carboxylates and sulfonates sorted from shortest to longest carbon chain compounds

Percent relative abundance (to PFOS) calculated by dividing compound concentration by the PFOS concentration

Cells highlighted in blue indicate constituent concentration was reported above the Provisional FDEP Groundwater Cleanup Target Level.

Cells highlighted in orange indicate percent relative abundance greater than 100%.

Bold font indicates constituent concentration was reported above the laboratory method detection limit.

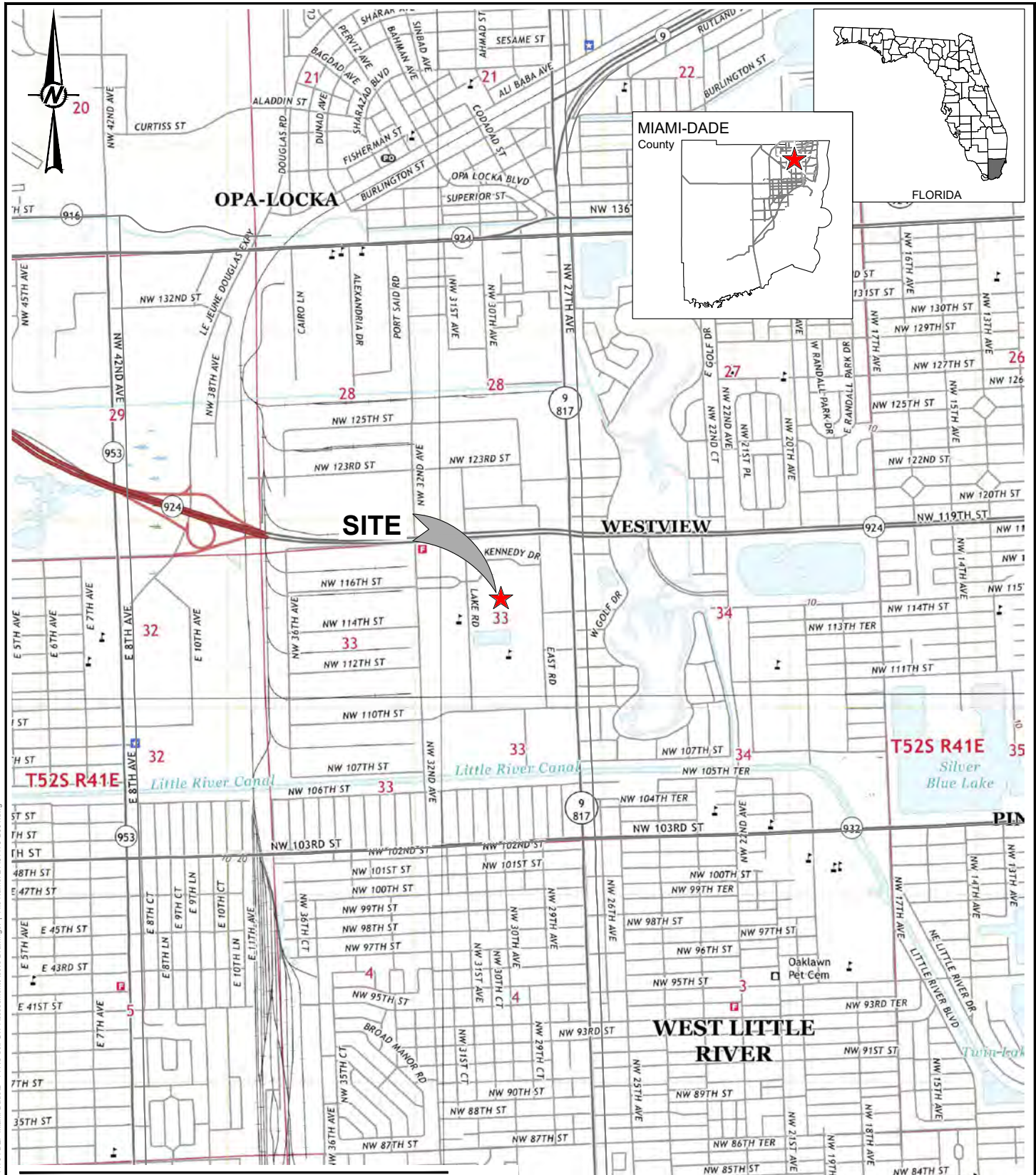
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

J - Estimated value and/or the analysis did not meet established quality control criteria.

Legend table mapping acronyms to full names: PFOA (Perfluorooctanoic acid), PFDA (Perfluorodecanoic acid), PFOS (Perfluorooctanesulfonic acid), PFDOA (Perfluorododecanoic acid), 4:2 FTS (4:2 Fluorotelomer sulfonate), PFHpS (Perfluoroheptanesulfonic acid), 6:2 FTS (6:2 Fluorotelomer sulfonate), PFHpA (Perfluoroheptanoic acid), 8:2 FTS (8:2 Fluorotelomer sulfonate), PFHxS (Perfluorohexanesulfonic acid), PFHxA (Perfluorohexanoic acid), N-ET (N-Et perfluorooctanesulfonamideAc acid), PFNS (Perfluorononanesulfonic acid), N-Me (N-Me perfluorooctanesulfonamideAc acid), PFNA (Perfluorononanoic acid), FBSA (Perfluoro-1-butane sulfonamide), PFPeS (Perfluoropentanesulfonic acid), FhxA (Perfluoro-1-hexane sulfonamide), PFPeA (Perfluoropentanoic acid), FOSA (Perfluoro-1-octane sulfonamide), PFTeA (Perfluorotetradecanoic acid), PFBS (Perfluorobutanesulfonic acid), PFTriA (Perfluorotridecanoic acid), PFBA (Perfluorobutanoic acid), PFUnA (Perfluoroundecanoic acid), PFDS (Perfluorododecane sulfonic acid).

FIGURES



REFERENCE(S)

1. USGS TOPOGRAPHIC MAP, 7.5 MIN. QUADRANGLE MAP SERIES: MIAMI-DADE QUADRANGLE, MIAMI-DADE COUNTY, FLORIDA.

CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

CONSULTANT
wsp GOLDER

YYYY-MM-DD	2021-05-06
DESIGNED	SN
PREPARED	BCL
REVIEWED	SN
APPROVED	RMW

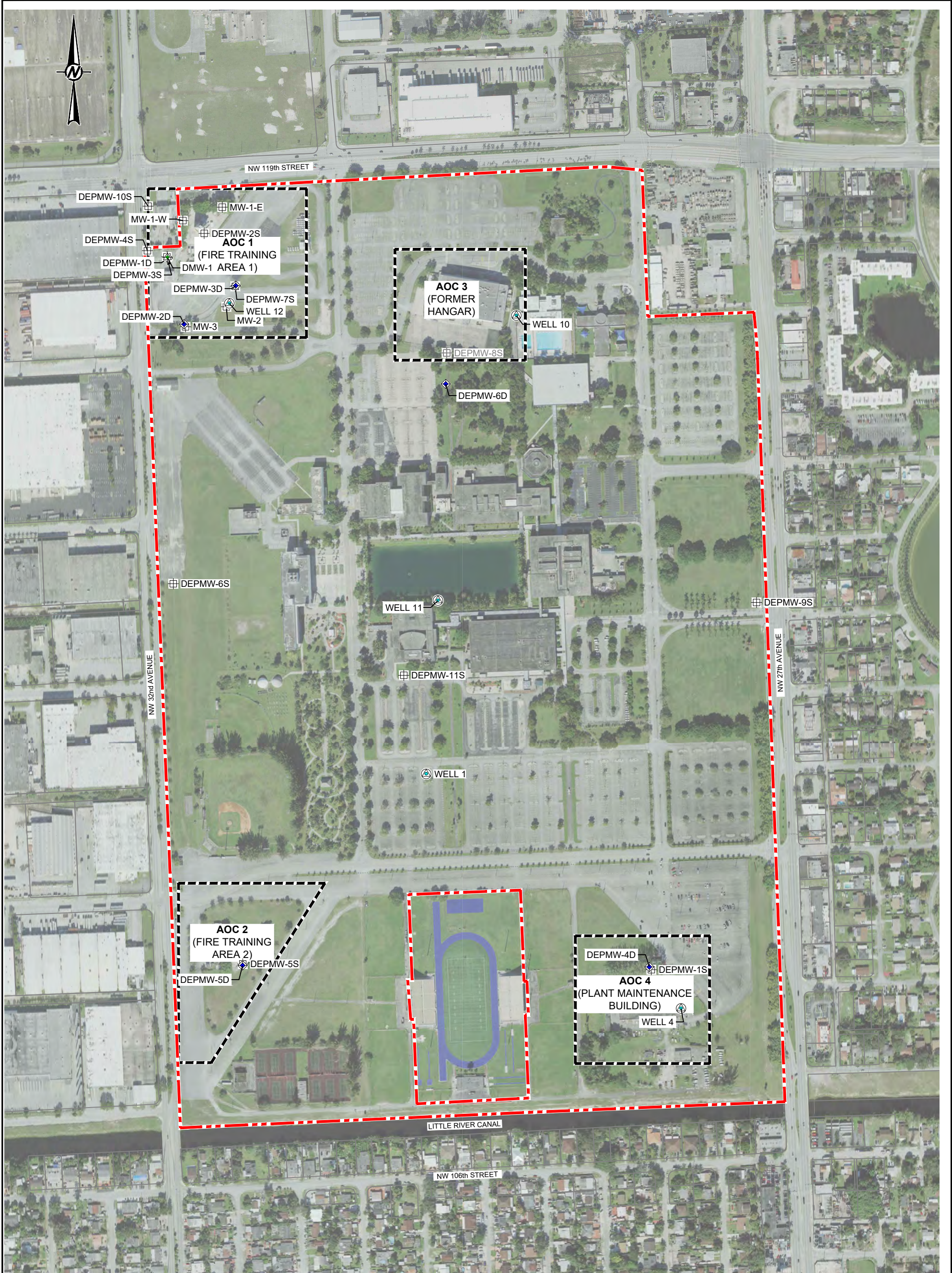
TITLE
SITE LOCATION MAP

PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B001		1



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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIA



LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	SHALLOW MONITORING WELL LOCATIONS
	INTERMEDIATE MONITORING WELL LOCATIONS
	DEEP MONITORING WELL LOCATIONS
	IRRIGATION WELL LOCATIONS

REFERENCE(S)

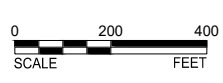
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NOTE(S)

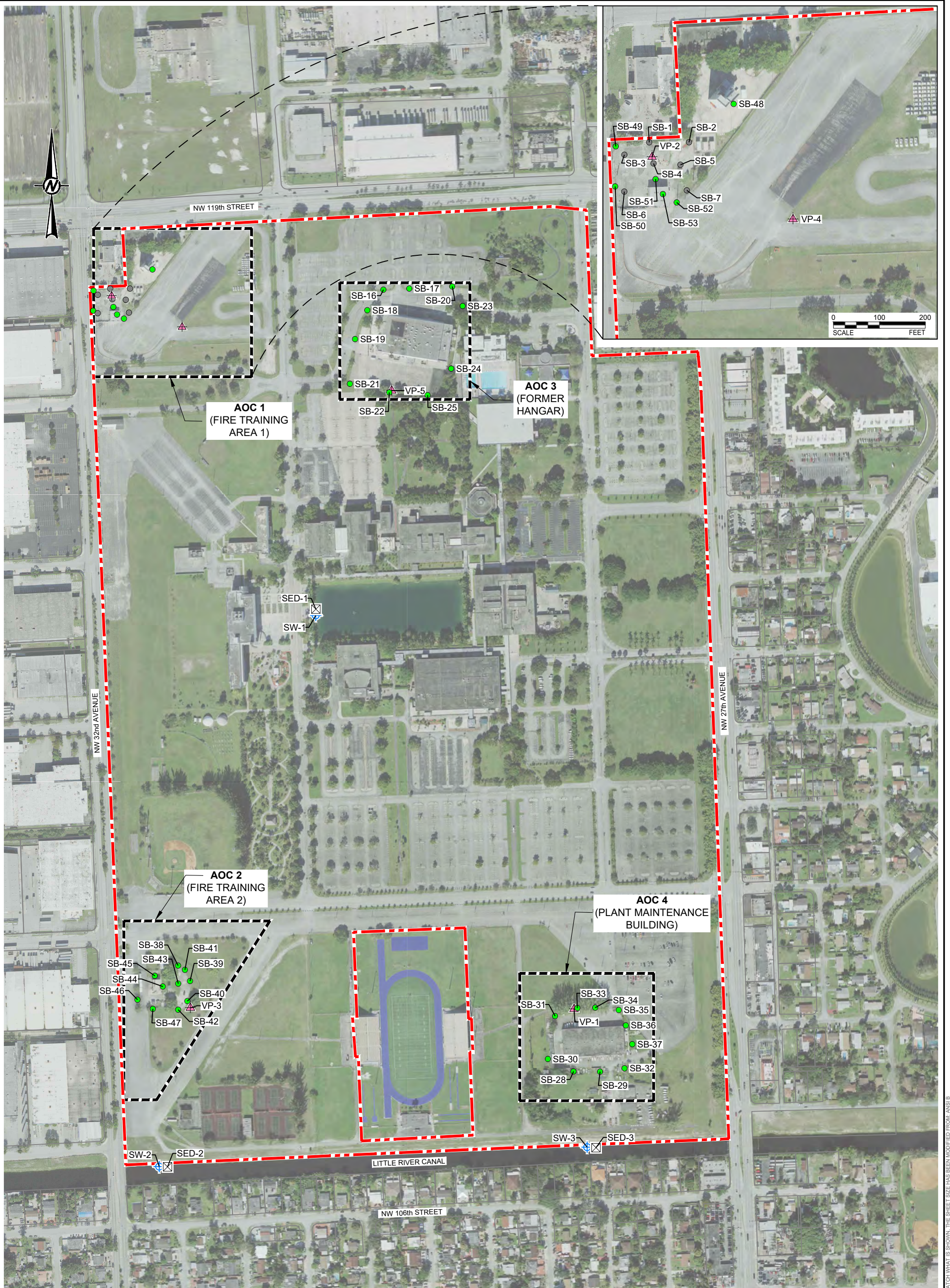
- ELEVATIONS ARE IN FEET AND RELATIVE TO NAVD88/NGVD29.
- HORIZONTAL DATUM RELATIVE TO NAD83 FLORIDA STATE PLANES, EAST ZONE, US FOOT/NAD27 FLORIDA STATE PLANES, EAST ZONE(901), US FOOT

CLIENT	FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION	
CONSULTANT	YYYY-MM-DD	2021-05-06
	DESIGNED	SN
	PREPARED	BCL
	REVIEWED	SN
	APPROVED	RMW

PROJECT	FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT		
TITLE	SITE PLAN		
PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B002	----	2



1in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	SOIL SAMPLE LOCATIONS
	SEDIMENT SAMPLE LOCATIONS
	SURFACE WATER SAMPLE LOCATIONS
	VERTICAL GROUNDWATER PROFILING LOCATIONS
	EXISTING SOIL SAMPLE LOCATIONS

REFERENCE(S)
 1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

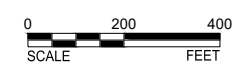
CLIENT
 FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT	YYYY-MM-DD	2021-05-06
	DESIGNED	SN
	PREPARED	BCL
	REVIEWED	SN
	APPROVED	RMW

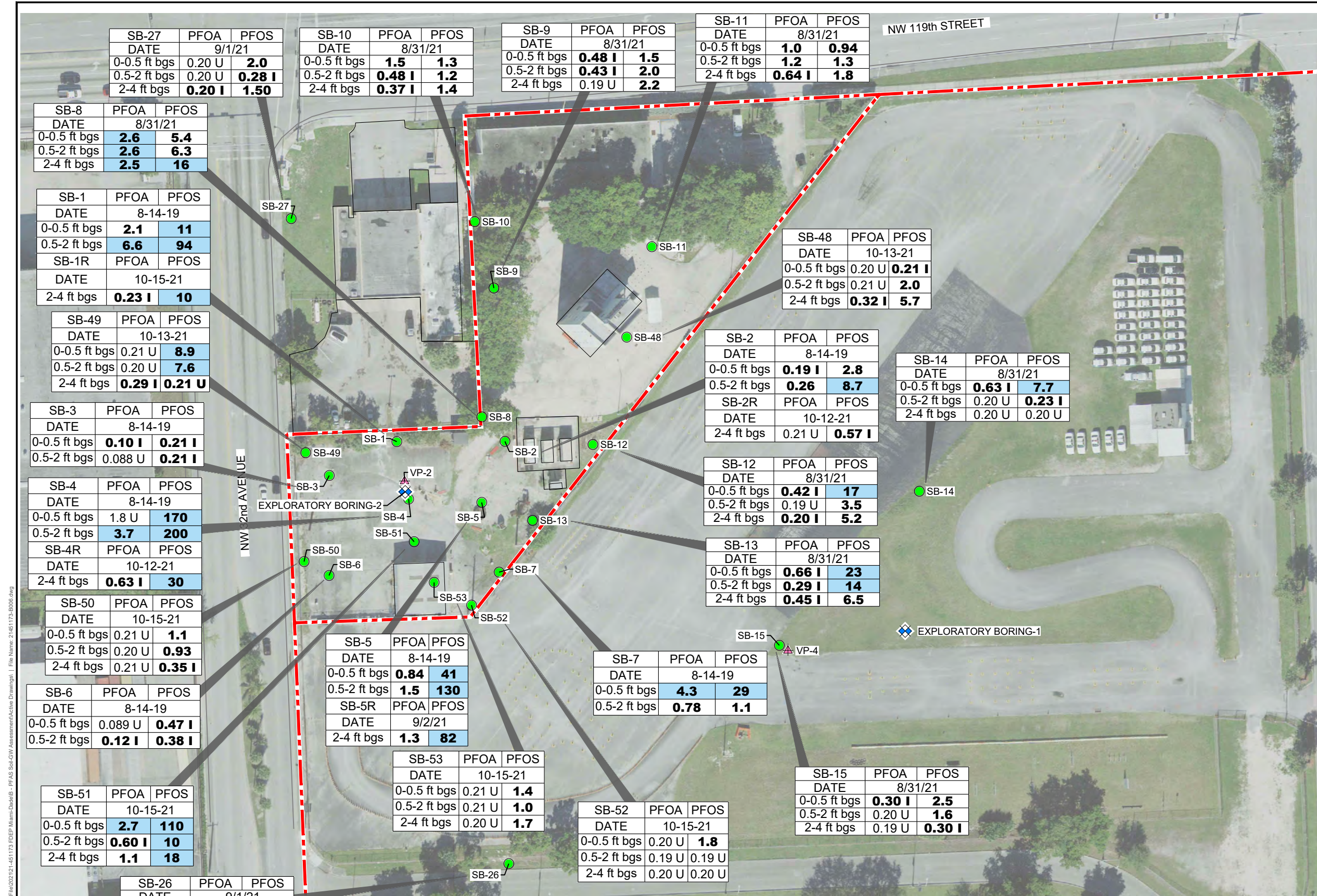
PROJECT
 FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

TITLE
SOIL, SEDIMENT, SURFACE WATER, AND VERTICAL PROFILE LOCATIONS

PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B003B	----	3



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOIL SAMPLE LOCATIONS
- ▲ VERTICAL GROUNDWATER PROFILING LOCATION
- ◆ EXPLORATORY SOIL BORING LOCATION

- NOTE(S)**
1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
 2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
 3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
 4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
 5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
 6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
 7. ft bgs - FEET BELOW GROUND SURFACE.
 8. PFOA - PERFLUORO-N-OCTANOIC ACID.
 9. PFOS - PERFLUOROOCETANESULFONIC ACID.

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIB

SB-27	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.20 U	2.0
0.5-2 ft bgs	0.20 U	0.28 I
2-4 ft bgs	0.20 I	1.50

SB-1	PFOA	PFOS
DATE	8-14-19	
0-0.5 ft bgs	2.1	11
0.5-2 ft bgs	6.6	94
SB-1R	PFOA	PFOS
DATE	10-15-21	
2-4 ft bgs	0.23 I	10

SB-49	PFOA	PFOS
DATE	10-13-21	
0-0.5 ft bgs	0.21 U	8.9
0.5-2 ft bgs	0.20 U	7.6
2-4 ft bgs	0.29 I	0.21 U

SB-3	PFOA	PFOS
DATE	8-14-19	
0-0.5 ft bgs	0.10 I	0.21 I
0.5-2 ft bgs	0.088 U	0.21 I

SB-4	PFOA	PFOS
DATE	8-14-19	
0-0.5 ft bgs	1.8 U	170
0.5-2 ft bgs	3.7	200
SB-4R	PFOA	PFOS
DATE	10-12-21	
2-4 ft bgs	0.63 I	30

SB-50	PFOA	PFOS
DATE	10-15-21	
0-0.5 ft bgs	0.21 U	1.1
0.5-2 ft bgs	0.20 U	0.93
2-4 ft bgs	0.21 U	0.35 I

SB-6	PFOA	PFOS
DATE	8-14-19	
0-0.5 ft bgs	0.089 U	0.47 I
0.5-2 ft bgs	0.12 I	0.38 I

SB-51	PFOA	PFOS
DATE	10-15-21	
0-0.5 ft bgs	2.7	110
0.5-2 ft bgs	0.60 I	10
2-4 ft bgs	1.1	18

SB-10	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	1.5	1.3
0.5-2 ft bgs	0.48 I	1.2
2-4 ft bgs	0.37 I	1.4

SB-9	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.48 I	1.5
0.5-2 ft bgs	0.43 I	2.0
2-4 ft bgs	0.19 U	2.2

SB-11	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	1.0	0.94
0.5-2 ft bgs	1.2	1.3
2-4 ft bgs	0.64 I	1.8

SB-48	PFOA	PFOS
DATE	10-13-21	
0-0.5 ft bgs	0.20 U	0.21 I
0.5-2 ft bgs	0.21 U	2.0
2-4 ft bgs	0.32 I	5.7

SB-2	PFOA	PFOS
DATE	8-14-19	
0-0.5 ft bgs	0.19 I	2.8
0.5-2 ft bgs	0.26	8.7
SB-2R	PFOA	PFOS
DATE	10-12-21	
2-4 ft bgs	0.21 U	0.57 I

SB-14	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.63 I	7.7
0.5-2 ft bgs	0.20 U	0.23 I
2-4 ft bgs	0.20 U	0.20 U

SB-12	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.42 I	17
0.5-2 ft bgs	0.19 U	3.5
2-4 ft bgs	0.20 I	5.2

SB-13	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.66 I	23
0.5-2 ft bgs	0.29 I	14
2-4 ft bgs	0.45 I	6.5

SB-5	PFOA	PFOS
DATE	8-14-19	
0-0.5 ft bgs	0.84	41
0.5-2 ft bgs	1.5	130
SB-5R	PFOA	PFOS
DATE	9/2/21	
2-4 ft bgs	1.3	82

SB-7	PFOA	PFOS
DATE	8-14-19	
0-0.5 ft bgs	4.3	29
0.5-2 ft bgs	0.78	1.1

SB-53	PFOA	PFOS
DATE	10-15-21	
0-0.5 ft bgs	0.21 U	1.4
0.5-2 ft bgs	0.21 U	1.0
2-4 ft bgs	0.20 U	1.7

SB-52	PFOA	PFOS
DATE	10-15-21	
0-0.5 ft bgs	0.20 U	1.8
0.5-2 ft bgs	0.19 U	0.19 U
2-4 ft bgs	0.20 U	0.20 U

SB-15	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.30 I	2.5
0.5-2 ft bgs	0.20 U	1.6
2-4 ft bgs	0.19 U	0.30 I

SB-26	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.37 I	2.1
0.5-2 ft bgs	0.20 U	0.65 I
2-4 ft bgs	0.21 U	0.21 U

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

- REFERENCE(S)**
1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT
wsp GOLDER

DATE
2021-11-03

DESIGNED
JWS

PREPARED
BCL

REVIEWED
SN

APPROVED
RMW

PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

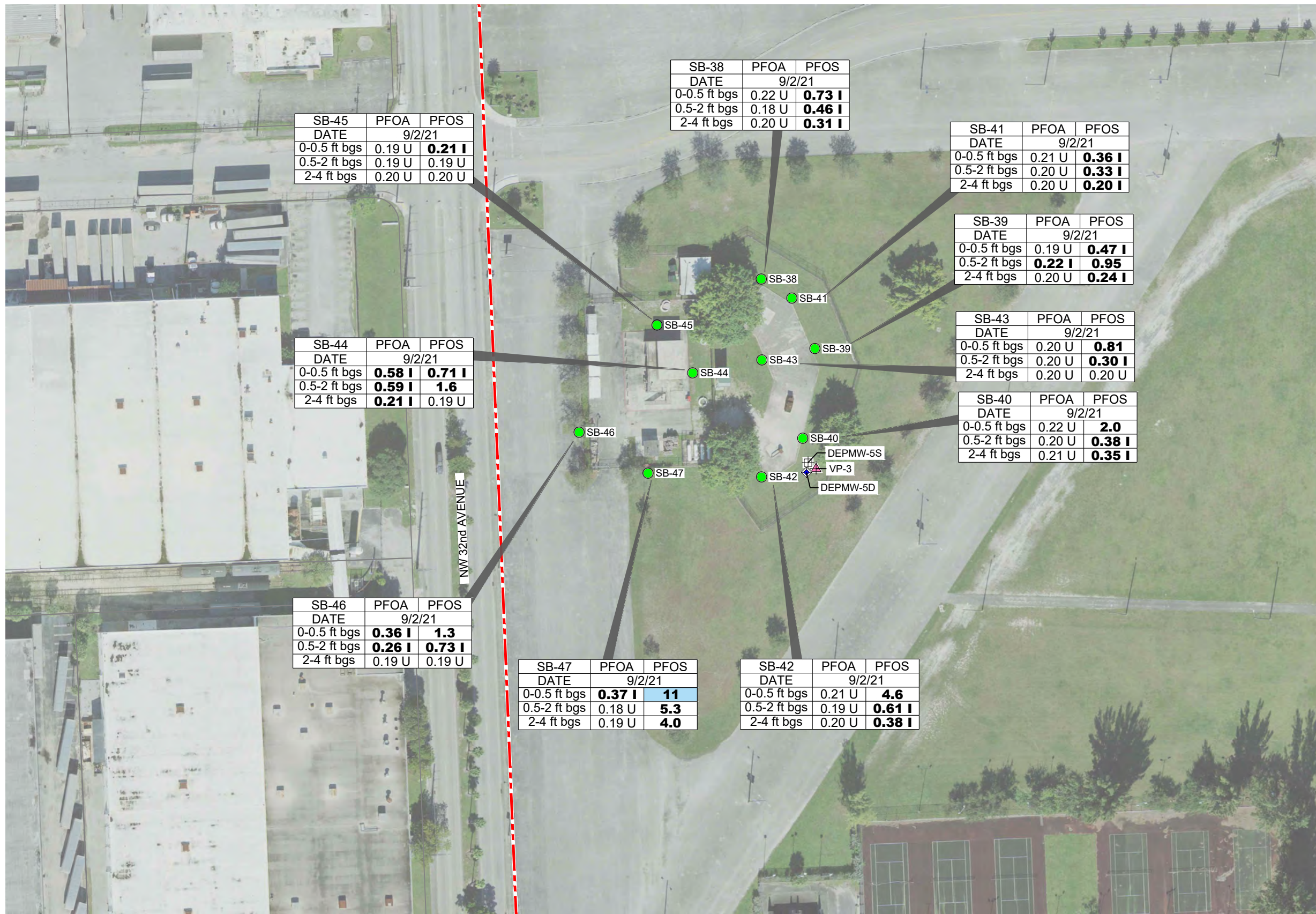
TITLE
AOC 1 - SOIL SAMPLE ANALYTICAL RESULTS (FIRE TRAINING AREA)

PROJECT NO.
21-451173

CONTROL
21451173-B006

REV.

FIGURE
4



SB-45	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.19 U	0.21 I
0.5-2 ft bgs	0.19 U	0.19 U
2-4 ft bgs	0.20 U	0.20 U

SB-38	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.22 U	0.73 I
0.5-2 ft bgs	0.18 U	0.46 I
2-4 ft bgs	0.20 U	0.31 I

SB-41	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.21 U	0.36 I
0.5-2 ft bgs	0.20 U	0.33 I
2-4 ft bgs	0.20 U	0.20 I

SB-44	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.58 I	0.71 I
0.5-2 ft bgs	0.59 I	1.6
2-4 ft bgs	0.21 I	0.19 U

SB-39	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.19 U	0.47 I
0.5-2 ft bgs	0.22 I	0.95
2-4 ft bgs	0.20 U	0.24 I

SB-43	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.20 U	0.81
0.5-2 ft bgs	0.20 U	0.30 I
2-4 ft bgs	0.20 U	0.20 U

SB-40	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.22 U	2.0
0.5-2 ft bgs	0.20 U	0.38 I
2-4 ft bgs	0.21 U	0.35 I

SB-46	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.36 I	1.3
0.5-2 ft bgs	0.26 I	0.73 I
2-4 ft bgs	0.19 U	0.19 U

SB-47	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.37 I	11
0.5-2 ft bgs	0.18 U	5.3
2-4 ft bgs	0.19 U	4.0

SB-42	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.21 U	4.6
0.5-2 ft bgs	0.19 U	0.61 I
2-4 ft bgs	0.20 U	0.38 I

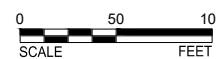
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- DEEP MONITORING WELL LOCATIONS
- SHALLOW MONITORING WELL LOCATIONS
- SOIL SAMPLE LOCATIONS
- VERTICAL GROUNDWATER PROFILING LOCATIONS

NOTE(S)

1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
5. I - REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. ft bgs - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCETANESULFONIC ACID.

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000



REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT



YYYY-MM-DD 2021-11-04

DESIGNED JWS

PREPARED BCL

REVIEWED SN

APPROVED RMW

PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

TITLE
AOC 2 - SOIL SAMPLE ANALYTICAL RESULTS
(FIRE TRAINING AREA 2)

PROJECT NO. 21-451173 CONTROL 21451173-B008

REV.

FIGURE

SB-16	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.24 I	1.5
0.5-2 ft bgs	0.23 I	1.8
2-4 ft bgs	0.23 I	1.1

SB-17	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.21 I	1.6
0.5-2 ft bgs	0.20 U	0.86
2-4 ft bgs	0.20 U	0.46 I

SB-20	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.19 U	0.69 I
0.5-2 ft bgs	0.23 I	0.62 I
2-4 ft bgs	0.19 U	0.53 I

SB-23	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	1.6	8.0
0.5-2 ft bgs	0.28 I	1.8
2-4 ft bgs	0.19 U	0.39 I

SB-18	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.20 U	0.41 I
0.5-2 ft bgs	0.20 U	0.31 I
2-4 ft bgs	0.19 U	0.19 U

SB-19	PFOA	PFOS
DATE	8/31/21	
0-0.5 ft bgs	0.30 I	0.80 I
0.5-2 ft bgs	0.19 U	0.47 I
2-4 ft bgs	0.20 U	0.20 U

SB-21	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.22 U	1.0
0.5-2 ft bgs	0.20 U	0.51 I
2-4 ft bgs	0.22 I	0.99

SB-24	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.51 I	2.9
0.5-2 ft bgs	0.23 I	3.2
2-4 ft bgs	0.20 U	0.61 I

SB-22	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	1.5	8.0
0.5-2 ft bgs	1.0	3.7
2-4 ft bgs	0.19 U	0.28 I

SB-25	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.55 I	3.1
0.5-2 ft bgs	0.46 I	1.4
2-4 ft bgs	0.21 U	0.21 U

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

REFERENCE(S)
 1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
 - PROPOSED DEEP MONITORING WELL LOCATIONS
 - SHALLOW MONITORING WELL LOCATIONS
 - SOIL SAMPLE LOCATIONS
 - VERTICAL GROUNDWATER PROFILING LOCATIONS

- NOTE(S)**
1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
 2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
 3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
 4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
 5. I - REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
 6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
 7. ft bgs - FEET BELOW GROUND SURFACE.
 8. PFOA - PERFLUORO-N-OCTANOIC ACID.
 9. PFOS - PERFLUOROOCTANESULFONIC ACID.

CLIENT
 FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT	YYYY-MM-DD	2021-10-08
	DESIGNED	SN
	PREPARED	BCL
	REVIEWED	SN
	APPROVED	RMW

PROJECT
 FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

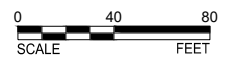
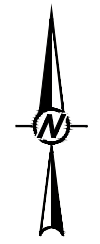
TITLE
AOC 3 - SOIL SAMPLE ANALYTICAL RESULTS (FORMER HANGAR)

PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B008		6

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1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

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LEGEND

- - - APPROXIMATE PROPERTY BOUNDARY
- ◆ DEEP MONITORING WELL LOCATIONS
- ⊕ SHALLOW MONITORING WELL LOCATIONS
- SOIL SAMPLE LOCATIONS
- ▲ VERTICAL GROUNDWATER PROFILING LOCATIONS
- ⊗ SEDIMENT SAMPLE LOCATIONS
- ⊕ SURFACE WATER SAMPLE LOCATIONS

- NOTE(S)**
1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
 2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
 3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
 4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
 5. I - REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
 6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
 7. ft bgs - FEET BELOW GROUND SURFACE.
 8. PFOA - PERFLUORO-N-OCTANOIC ACID.
 9. PFOS - PERFLUOROOCTANESULFONIC ACID.

CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT	YYYY-MM-DD	2021-10-08
wsp GOLDER	DESIGNED	SN
	PREPARED	BCL
	REVIEWED	SN
	APPROVED	RMW

PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

TITLE
AOC 4 - SOIL SAMPLE ANALYTICAL RESULTS
(PLANT MAINTENANCE BUILDING)

PROJECT NO. 21-451173 CONTROL 21451173-B008 REV. FIGURE 7

SB-30	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.20 U	1.8
0.5-2 ft bgs	0.18 U	1.0
2-4 ft bgs	0.20 U	0.27 I

SB-31	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.20 U	0.32 I
0.5-2 ft bgs	0.18 U	0.18 U
2-4 ft bgs	0.19 U	0.19 U

SB-28	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.21 U	0.73 I
0.5-2 ft bgs	0.20 U	0.20 U
2-4 ft bgs	0.20 U	0.20 U

SB-29	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.21 U	0.21 U
0.5-2 ft bgs	0.18 U	0.18 U
2-4 ft bgs	0.21 U	0.21 U

SB-33	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.21 U	3.1
0.5-2 ft bgs	0.19 U	0.40 I
2-4 ft bgs	0.19 U	0.69 I

SB-34	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.29 I	0.97
0.5-2 ft bgs	0.20 U	0.24 I
2-4 ft bgs	0.19 U	0.19 U

SB-35	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.37 I	1.9
0.5-2 ft bgs	0.38 I	3.0
2-4 ft bgs	0.19 U	0.68 I

SB-36	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	1.80	14
0.5-2 ft bgs	0.45 I	4.30

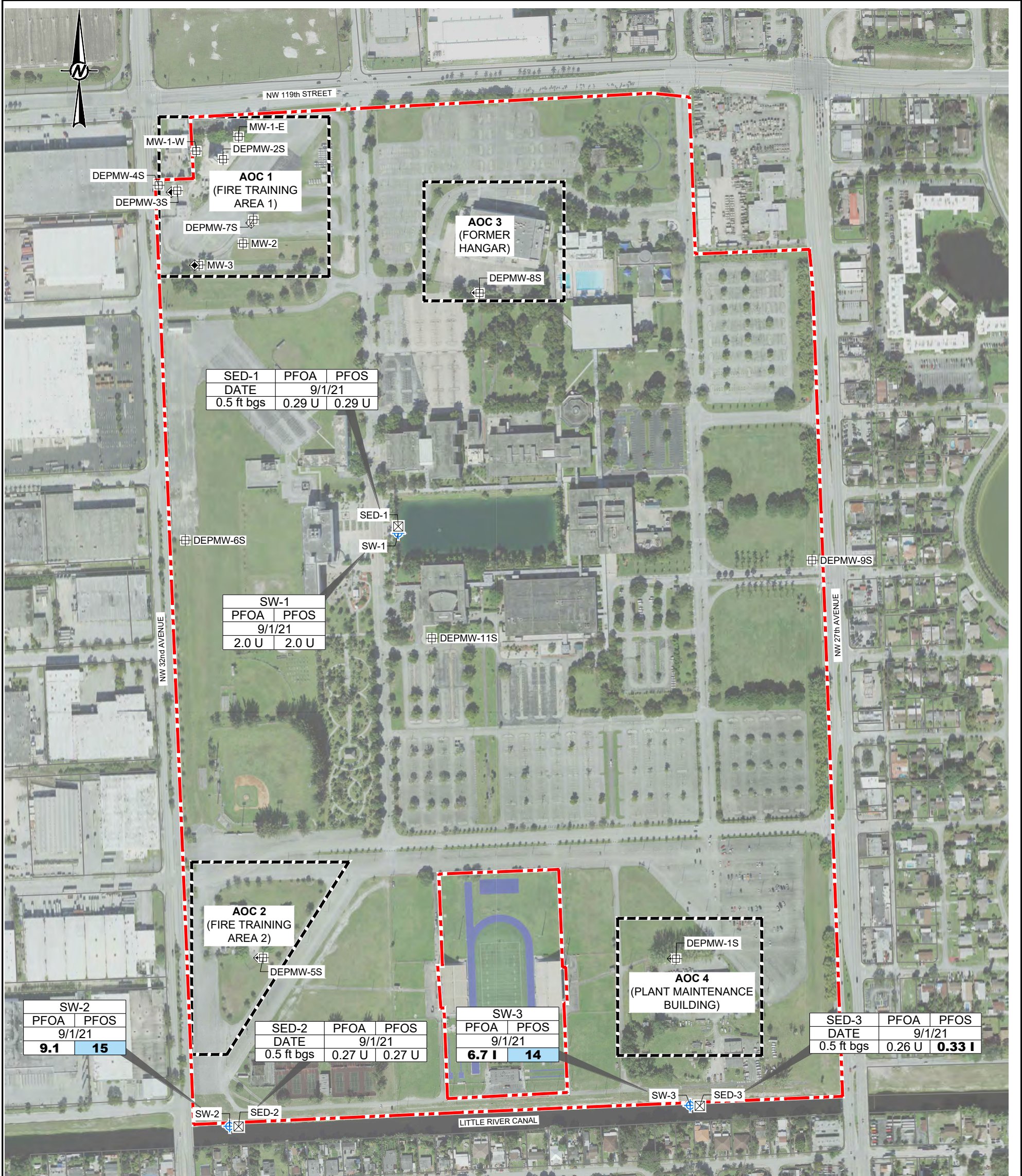
SB-37	PFOA	PFOS
DATE	9/2/21	
0-0.5 ft bgs	0.49 I	8.9
0.5-2 ft bgs	0.20 U	5.4
2-4 ft bgs	0.21 U	0.76 I

SB-32	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.45 I	6.3
0.5-2 ft bgs	0.19 U	1.1
2-4 ft bgs	0.19 U	0.33 I

- REFERENCE(S)**
1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIB



SED-1	PFOA	PFOS
DATE	9/1/21	
0.5 ft bgs	0.29 U	0.29 U

SW-1	PFOA	PFOS
DATE	9/1/21	
2.0 U	2.0 U	

SW-2	PFOA	PFOS
DATE	9/1/21	
9.1		15

SED-2	PFOA	PFOS
DATE	9/1/21	
0.5 ft bgs	0.27 U	0.27 U

SW-3	PFOA	PFOS
DATE	9/1/21	
6.7 I		14

SED-3	PFOA	PFOS
DATE	9/1/21	
0.5 ft bgs	0.26 U	0.33 I

NOTES: SEDIMENT ANALYTICAL DATA

1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. ft bgs - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

NOTES: SURFACE WATER ANALYTICAL DATA

1. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
2. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
3. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL FDEP SURFACE WATER SCREENING LEVEL FOR HUMAN HEALTH.
4. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
5. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
6. PFOA - PERFLUORO-N-OCTANOIC ACID.
7. PFOS - PERFLUOROOCTANESULFONIC ACID.

PROVISIONAL SURFACE WATER SCREENING LEVELS	PFOA IN ng/L	PFOS IN ng/L
HUMAN HEALTH (Based on consumption of freshwater and estuarine finfish and shellfish)	500	10
ECOLOGICAL (FRESHWATER)	1,300,000	37,000
ECOLOGICAL (MARINE)	NOT DETERMINED	13,000

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- ⊗ SEDIMENT SAMPLE LOCATIONS
- ⊕ SURFACE WATER SAMPLE LOCATIONS
- ◆ PROPOSED DEEP MONITORING WELL LOCATIONS
- ⊕ SHALLOW MONITORING WELL LOCATIONS

CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

CONSULTANT
wsp GOLDER

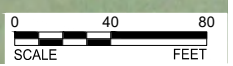
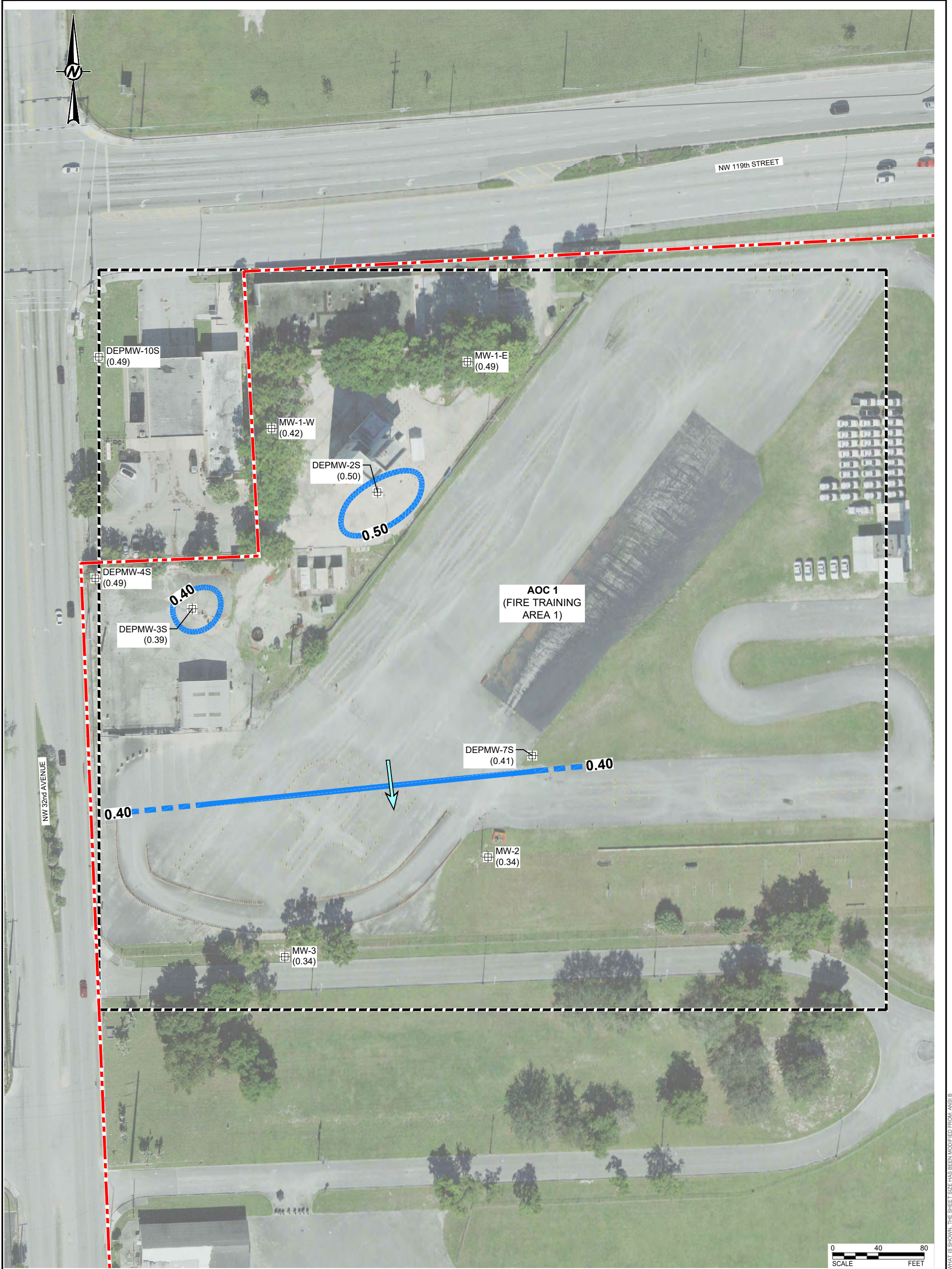
YYYY-MM-DD	2021-05-06
DESIGNED	SN
PREPARED	BCL
REVIEWED	SN
APPROVED	RMW

TITLE
SEDIMENT AND SURFACE WATER ANALYTICAL RESULTS

PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B010	----	8



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



	APPROXIMATE PROPERTY BOUNDARY
	SHALLOW MONITORING WELL LOCATIONS
(0.46)	GROUNDWATER ELEVATION
	GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
	ESTIMATED GROUNDWATER FLOW DIRECTION

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

NOTE(S)

1. ELEVATIONS ARE IN FEET AND RELATIVE TO NAVD88/NGVD29.
2. HORIZONTAL DATUM RELATIVE TO NAD83 FLORIDA STATE PLANES, EAST ZONE, US FOOT/NAD27 FLORIDA STATE PLANES, EAST ZONE(901), US FOOT

CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

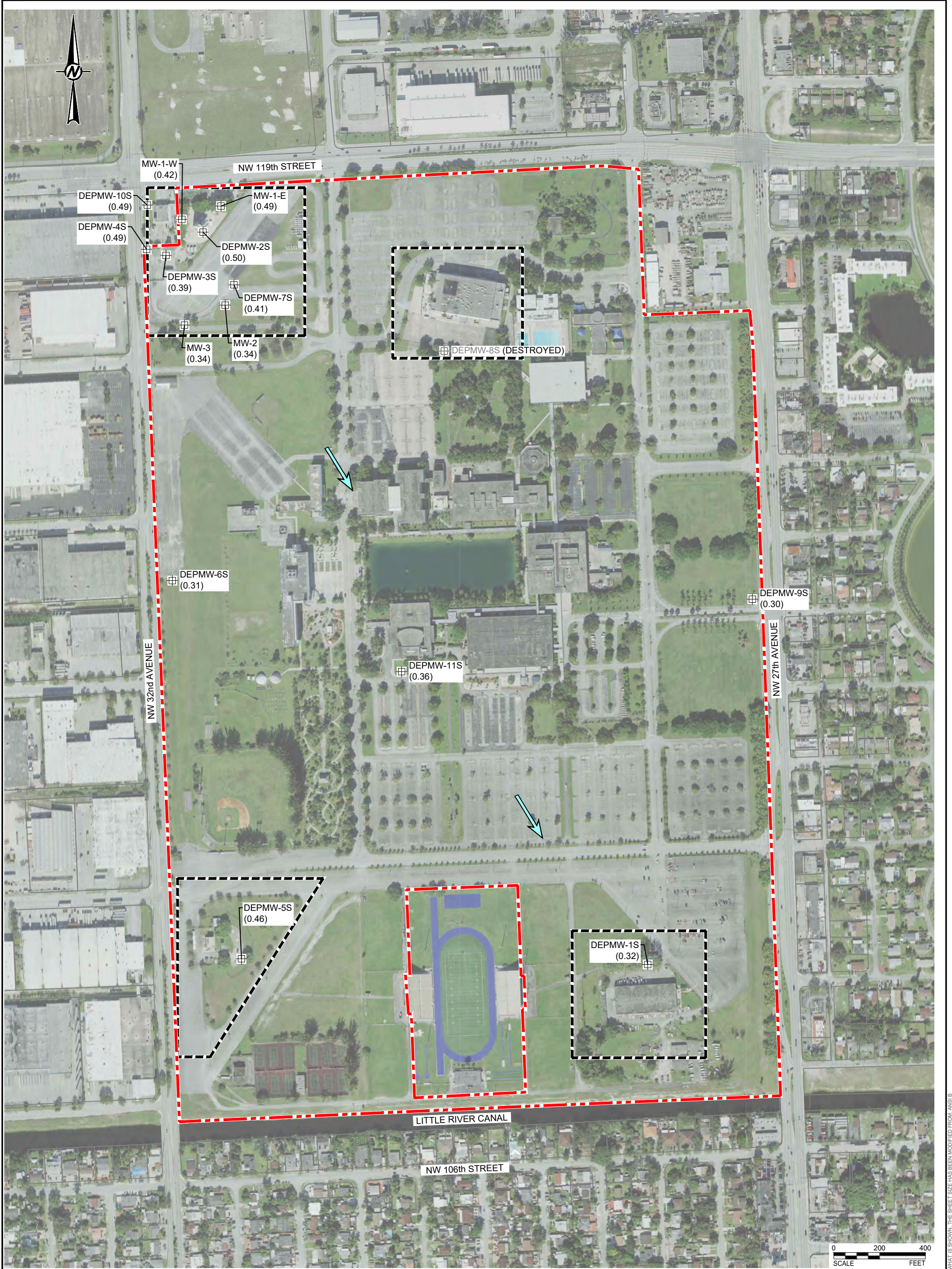
PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

CONSULTANT	YYYY-MM-DD	2022-04-22
	DESIGNED	SN
	PREPARED	BCL
	REVIEWED	SN
	APPROVED	RMW

TITLE
POTENTIOMETRIC SURFACE MAP OF THE SHALLOW SURFICIAL AQUIFER - AOC 1
(FEBRUARY 2022)

PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B012	----	9

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	SHALLOW MONITORING WELL LOCATIONS
(0.46)	GROUNDWATER ELEVATION
	ESTIMATED GROUNDWATER FLOW DIRECTION

REFERENCE(S)

- AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

NOTE(S)

- ELEVATIONS ARE IN FEET AND RELATIVE TO NAVD88/NGVD29.
- HORIZONTAL DATUM RELATIVE TO NAD83 FLORIDA STATE PLANES, EAST ZONE, US FOOT/NAD27 FLORIDA STATE PLANES, EAST ZONE(901), US FOOT

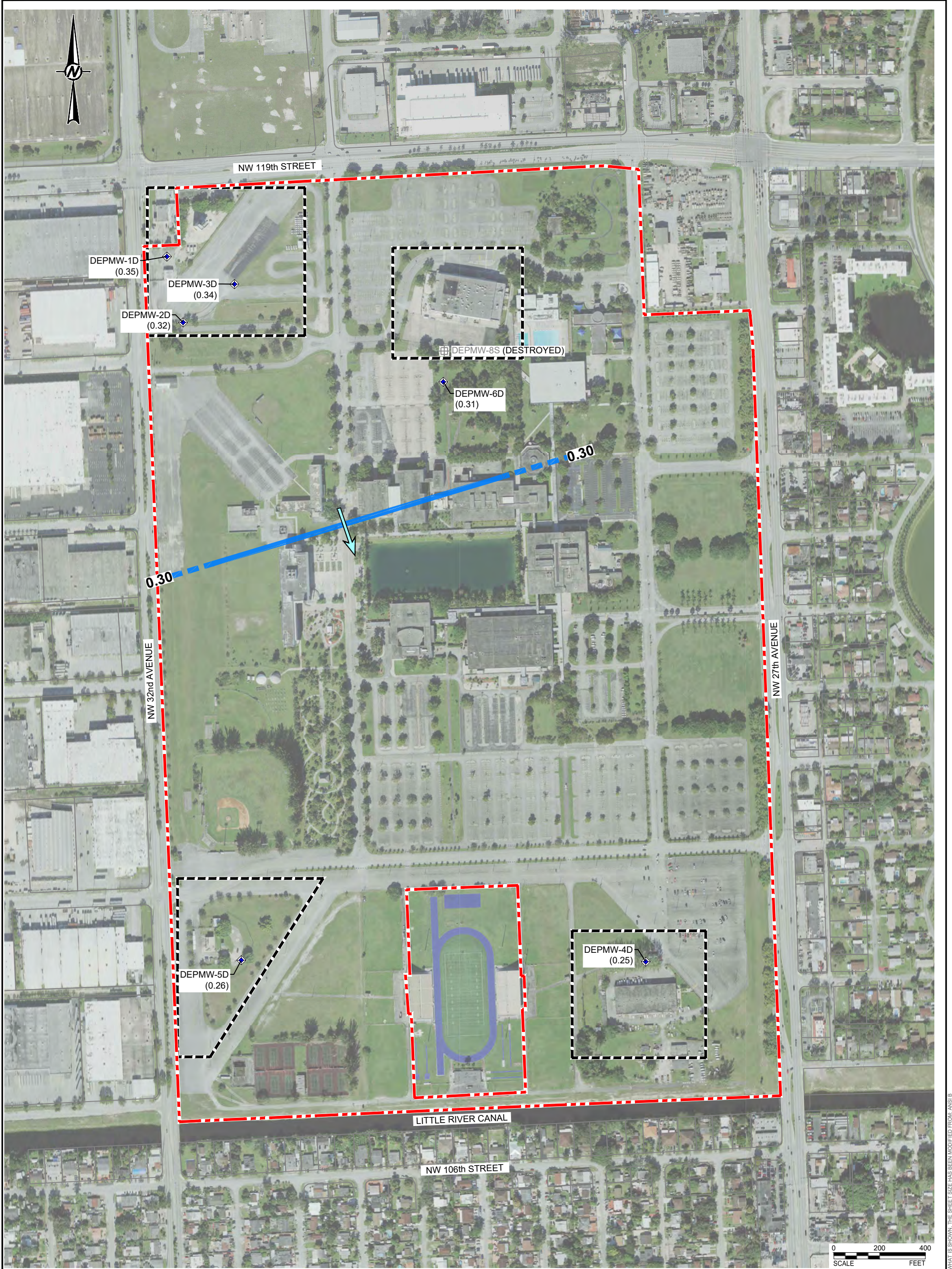
CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

CONSULTANT	YYYY-MM-DD	2022-04-22
	DESIGNED	SN
	PREPARED	BCL
	REVIEWED	SN
	APPROVED	RMW

TITLE	PROJECT NO.	CONTROL	REV.	FIGURE
POTENTIOMETRIC SURFACE MAP OF THE SHALLOW SURFICIAL AQUIFER	21-451173	21451173-B013	----	10

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- - - APPROXIMATE PROPERTY BOUNDARY
- ◆ DEEP MONITORING WELL LOCATIONS
- (0.25) GROUNDWATER ELEVATION
- - - 0.30 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- ESTIMATED GROUNDWATER FLOW DIRECTION

REFERENCE(S)

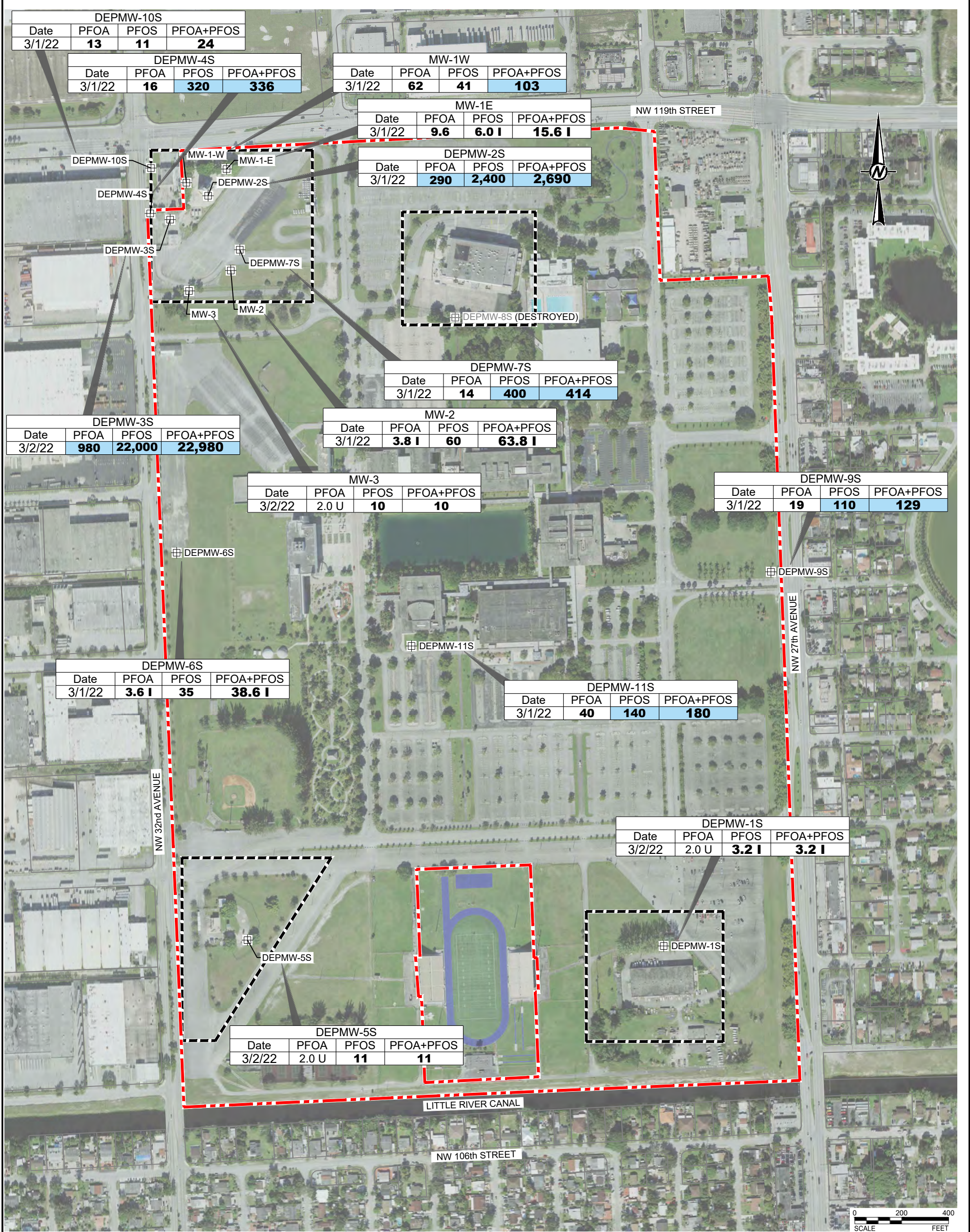
- AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

NOTE(S)

- ELEVATIONS ARE IN FEET AND RELATIVE TO NAVD88/NGVD29.
- HORIZONTAL DATUM RELATIVE TO NAD83 FLORIDA STATE PLANES, EAST ZONE, US FOOT/NAD27 FLORIDA STATE PLANES, EAST ZONE(901), US FOOT

CLIENT		PROJECT			
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION		FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT			
CONSULTANT		TITLE			
		POTENTIOMETRIC SURFACE MAP OF THE DEEP SURFICIAL AQUIFER (FEBRUARY 2022)			
		YYYY-MM-DD	2022-04-22		
		DESIGNED	SN		
		PREPARED	BCL		
		REVIEWED	SN		
APPROVED	RMW	PROJECT NO.	CONTROL	REV.	FIGURE
		21-451173	21451173-B014	----	11

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- NOTE(S)**
1. PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
 2. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
 3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
 4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
 5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
 6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
 7. ft bgs - FEET BELOW GROUND SURFACE.
 8. PFOA - PERFLUORO-N-OCTANOIC ACID.
 9. PFOS - PERFLUOROCTANESULFONIC ACID.

LEGEND

--- APPROXIMATE PROPERTY BOUNDARY

⊕ SHALLOW MONITORING WELL LOCATIONS

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
PGCTL	70	70	70

- REFERENCE(S)**
1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT

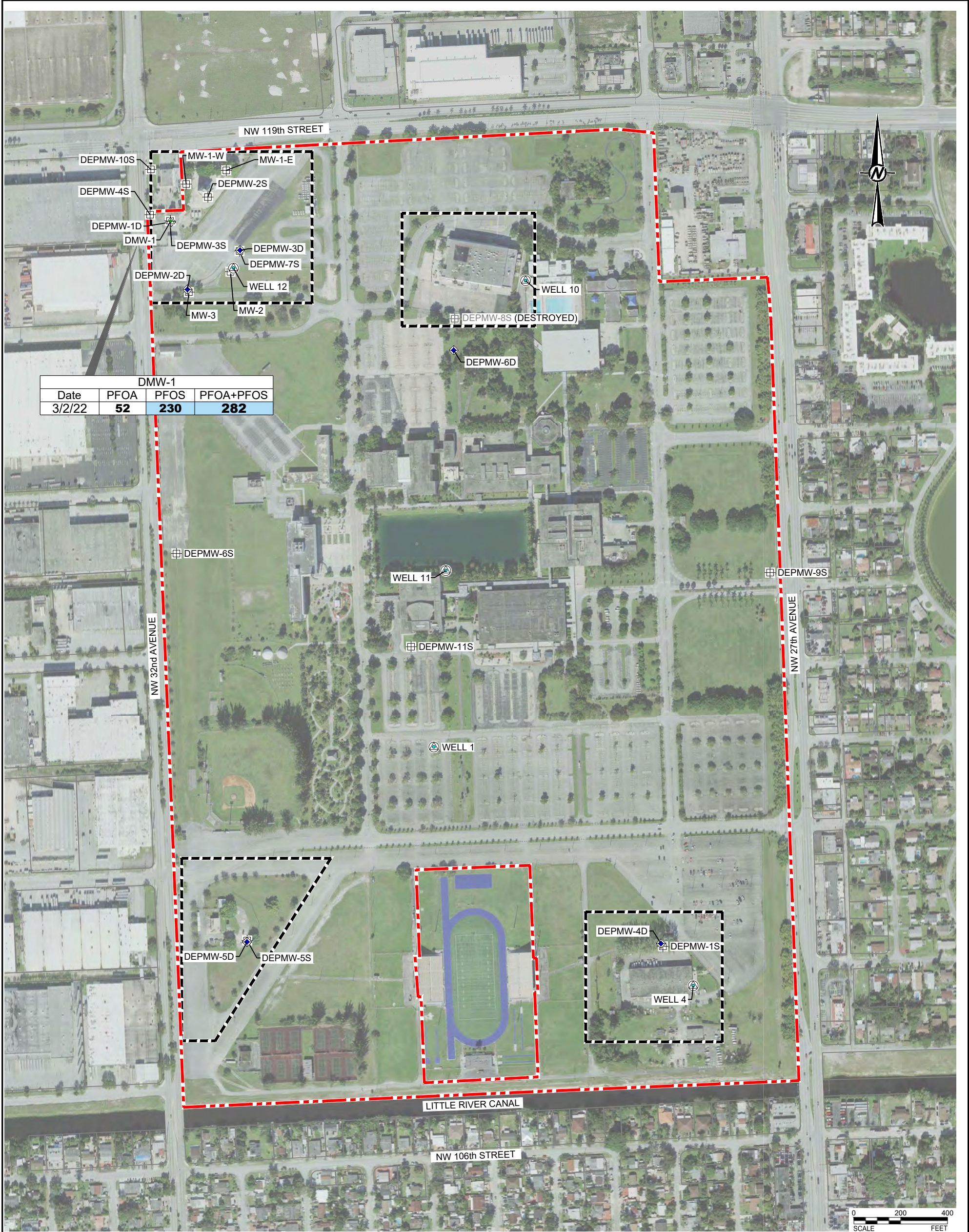
YYYY-MM-DD	2022-04-22
DESIGNED	SN
PREPARED	BCL
REVIEWED	SN
APPROVED	RMW

PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

TITLE
GROUNDWATER ANALYTICAL RESULTS FOR THE SHALLOW SURFICIAL AQUIFER

PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B015	----	12

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- NOTE(S)**
1. PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
 2. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
 3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
 4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
 5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
 6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
 7. ft bgs - FEET BELOW GROUND SURFACE.
 8. PFOA - PERFLUORO-N-OCTANOIC ACID.
 9. PFOS - PERFLUOROOCTANESULFONIC ACID.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- ⊕ SHALLOW MONITORING WELL LOCATIONS
- ⊕ INTERMEDIATE MONITORING WELL LOCATIONS
- ⊕ DEEP MONITORING WELL LOCATIONS
- ⊕ IRRIGATION WELL LOCATIONS

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
PGCTL	70	70	70

- REFERENCE(S)**
1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

CLIENT
FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT
wsp GOLDER

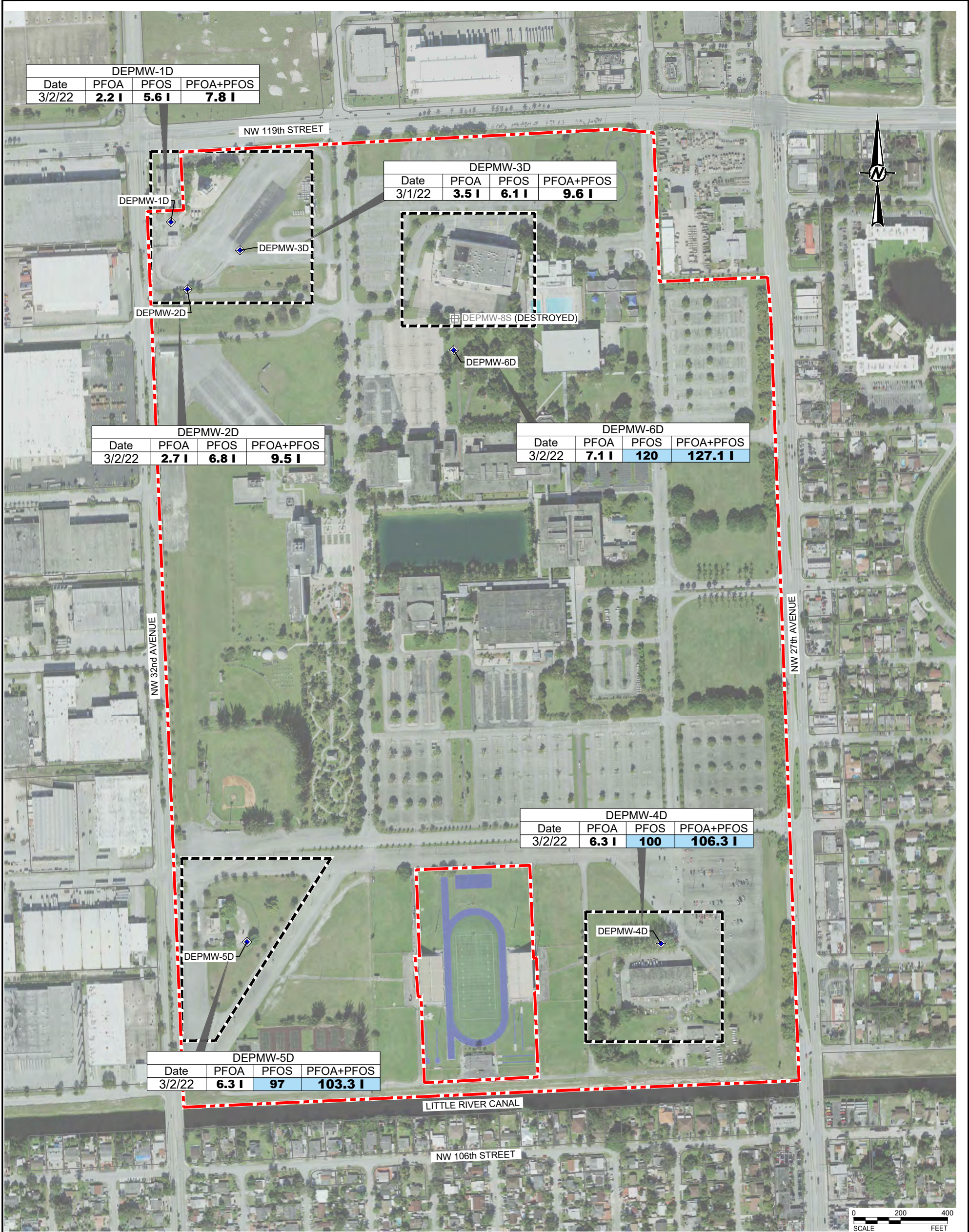
YYYY-MM-DD	2022-04-22
DESIGNED	SN
PREPARED	BCL
REVIEWED	SN
APPROVED	RMW

PROJECT
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

TITLE
GROUNDWATER ANALYTICAL RESULTS FOR THE INTERMEDIATE SURFICIAL AQUIFER

PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B016	----	13

1in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



DEPMW-1D			
Date	PFOA	PFOS	PFOA+PFOS
3/2/22	2.2 I	5.6 I	7.8 I

DEPMW-3D			
Date	PFOA	PFOS	PFOA+PFOS
3/1/22	3.5 I	6.1 I	9.6 I

DEPMW-2D			
Date	PFOA	PFOS	PFOA+PFOS
3/2/22	2.7 I	6.8 I	9.5 I

DEPMW-6D			
Date	PFOA	PFOS	PFOA+PFOS
3/2/22	7.1 I	120	127.1 I

DEPMW-4D			
Date	PFOA	PFOS	PFOA+PFOS
3/2/22	6.3 I	100	106.3 I

DEPMW-5D			
Date	PFOA	PFOS	PFOA+PFOS
3/2/22	6.3 I	97	103.3 I

NOTE(S)

1. PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. ft bgs - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROCTANESULFONIC ACID.

LEGEND

- - - - - APPROXIMATE PROPERTY BOUNDARY
- ◆ DEEP MONITORING WELL LOCATIONS

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
PGCTL	70	70	70

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

CLIENT

FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT



YYYY-MM-DD 2022-04-22

DESIGNED SN

PREPARED BCL

REVIEWED SN

APPROVED RMW

PROJECT

FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

TITLE

GROUNDWATER ANALYTICAL RESULTS FOR THE DEEP SURFICIAL AQUIFER

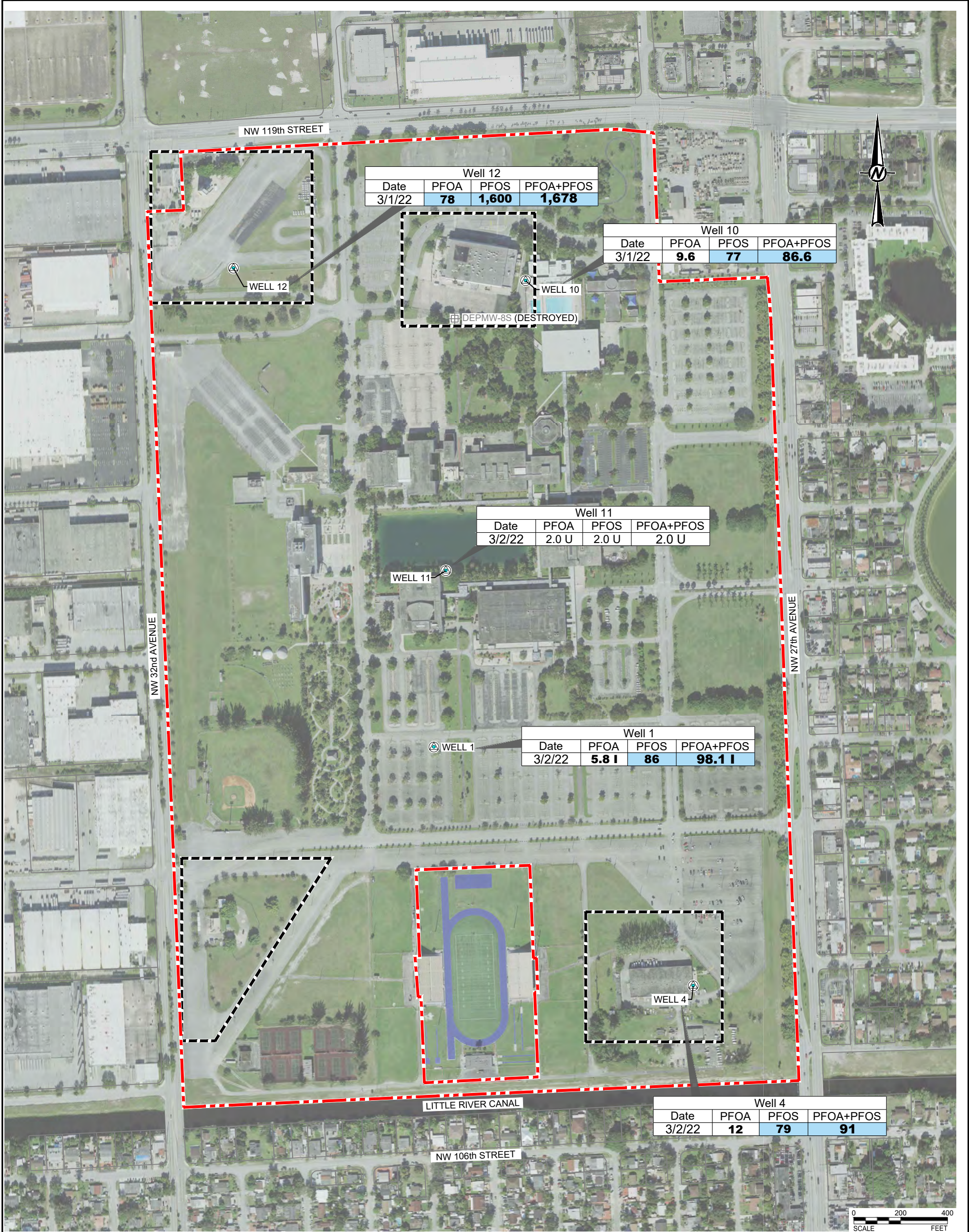
PROJECT NO. 21-451173

CONTROL 21451173-B017

REV. ----

FIGURE 14

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



NOTE(S)

1. PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. ft bgs - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROCTANESULFONIC ACID.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- ⊕ IRRIGATION WELL LOCATIONS

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
PGCTL	70	70	70

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

CLIENT

FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT

YYYY-MM-DD	2022-04-22
DESIGNED	SN
PREPARED	BCL
REVIEWED	SN
APPROVED	RMW

PROJECT

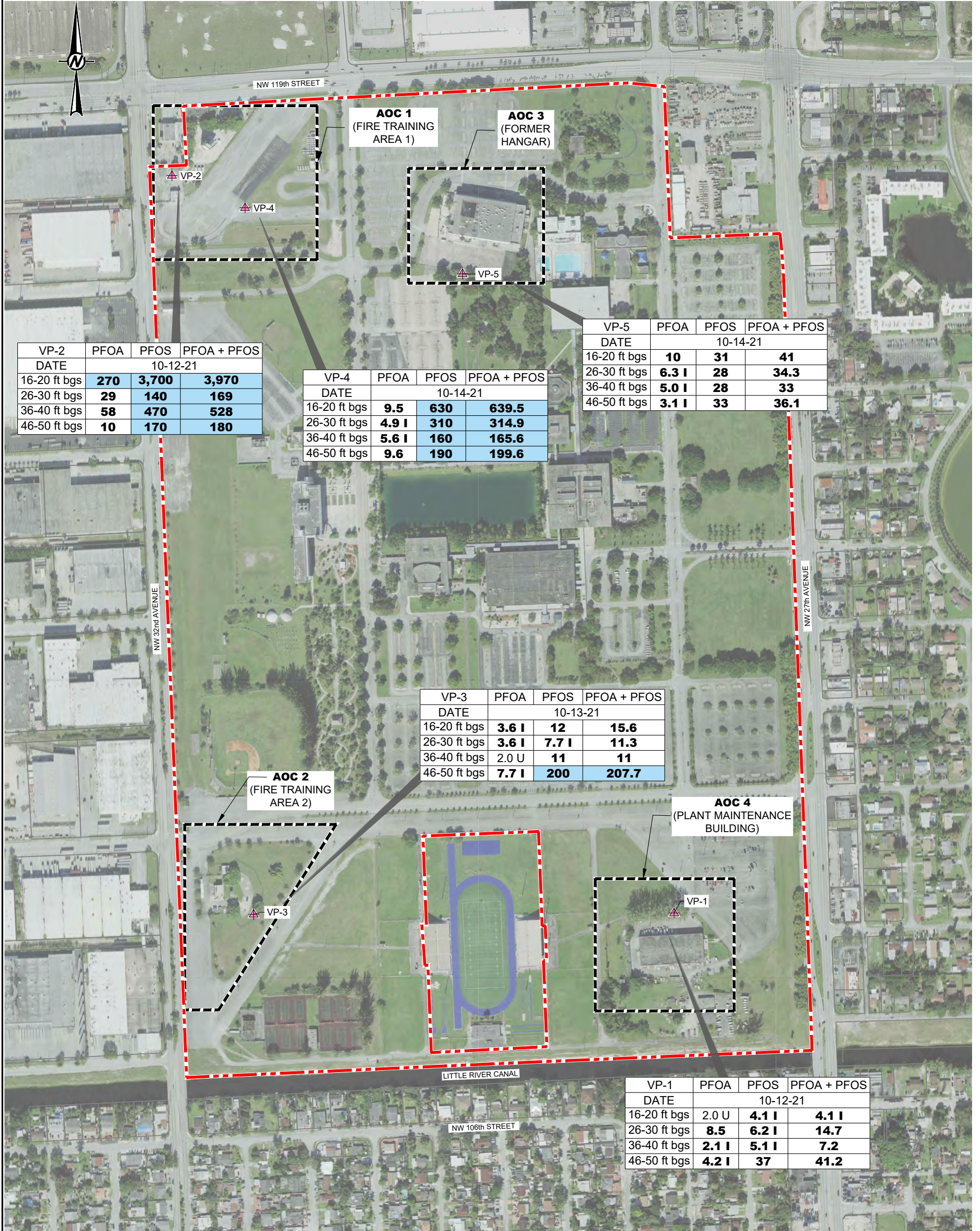
FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

TITLE

GROUNDWATER ANALYTICAL RESULTS FOR IRRIGATION WELLS

PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B018	----	15

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



VP-2	PFOA	PFOS	PFOA + PFOS
DATE	10-12-21		
16-20 ft bgs	270	3,700	3,970
26-30 ft bgs	29	140	169
36-40 ft bgs	58	470	528
46-50 ft bgs	10	170	180

VP-4	PFOA	PFOS	PFOA + PFOS
DATE	10-14-21		
16-20 ft bgs	9.5	630	639.5
26-30 ft bgs	4.9 I	310	314.9
36-40 ft bgs	5.6 I	160	165.6
46-50 ft bgs	9.6	190	199.6

VP-5	PFOA	PFOS	PFOA + PFOS
DATE	10-14-21		
16-20 ft bgs	10	31	41
26-30 ft bgs	6.3 I	28	34.3
36-40 ft bgs	5.0 I	28	33
46-50 ft bgs	3.1 I	33	36.1

VP-3	PFOA	PFOS	PFOA + PFOS
DATE	10-13-21		
16-20 ft bgs	3.6 I	12	15.6
26-30 ft bgs	3.6 I	7.7 I	11.3
36-40 ft bgs	2.0 U	11	11
46-50 ft bgs	7.7 I	200	207.7

VP-1	PFOA	PFOS	PFOA + PFOS
DATE	10-12-21		
16-20 ft bgs	2.0 U	4.1 I	4.1 I
26-30 ft bgs	8.5	6.2 I	14.7
36-40 ft bgs	2.1 I	5.1 I	7.2
46-50 ft bgs	4.2 I	37	41.2

NOTE(S)

- PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
- ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
- BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
- HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
- I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
- U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
- ft bgs - FEET BELOW GROUND SURFACE.
- PFOA - PERFLUORO-N-OCTANOIC ACID.
- PFOS - PERFLUORO-OCTANESULFONIC ACID.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VERTICAL GROUNDWATER PROFILING LOCATIONS

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
GCTL	70	70	70

REFERENCE(S)

- AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

CLIENT

FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONSULTANT

wsp GOLDER

YYYY-MM-DD 2021-05-06

DESIGNED SN
PREPARED BCL
REVIEWED SN
APPROVED RMW

PROJECT

FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT

TITLE

VERTICAL GROUNDWATER PROFILING ANALYTICAL RESULTS



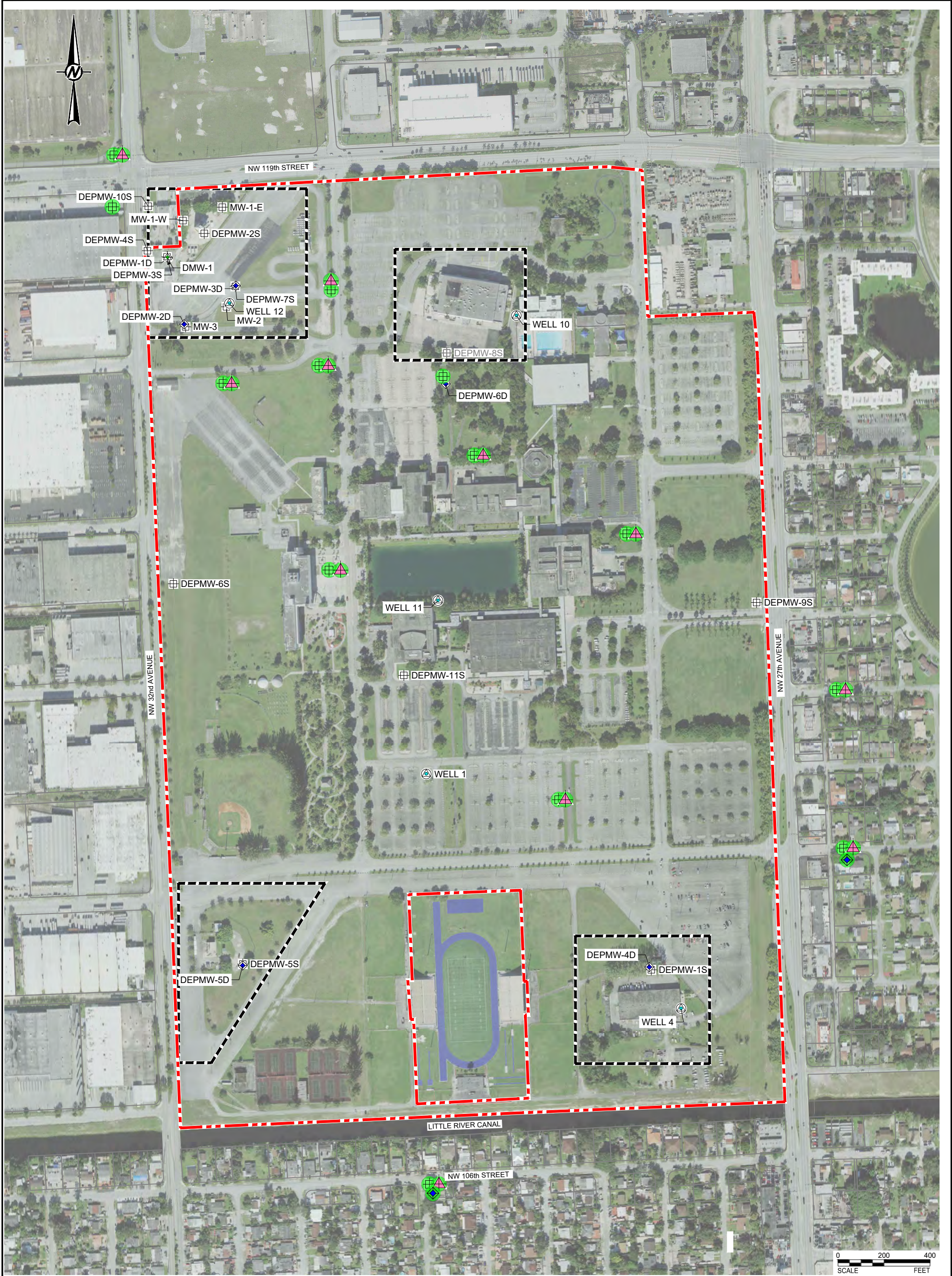
PROJECT NO. 21-451173

CONTROL 21451173-B011

REV. ----

FIGURE 16

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	SHALLOW MONITORING WELL LOCATIONS
	INTERMEDIATE MONITORING WELL LOCATIONS
	DEEP MONITORING WELL LOCATIONS
	IRRIGATION WELL LOCATIONS
	PROPOSED VERTICAL GROUNDWATER PROFILING LOCATIONS
	PROPOSED SHALLOW MONITORING WELL LOCATIONS
	PROPOSED DEEP MONITORING WELL LOCATIONS

REFERENCE(S)

- AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

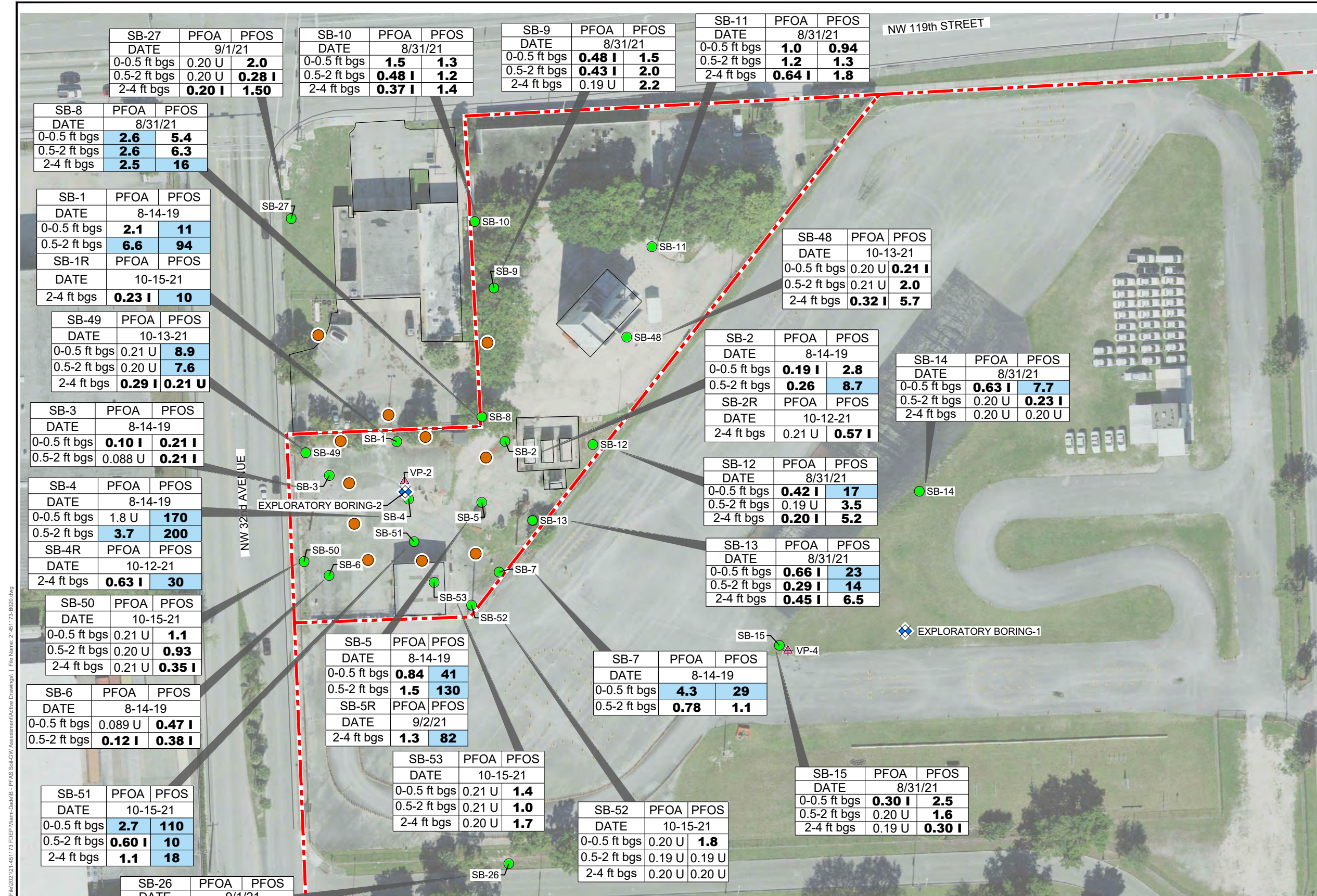
NOTE(S)

- ELEVATIONS ARE IN FEET AND RELATIVE TO NAVD88/NGVD29.
- HORIZONTAL DATUM RELATIVE TO NAD83 FLORIDA STATE PLANES, EAST ZONE, US FOOT/NAD27 FLORIDA STATE PLANES, EAST ZONE(901), US FOOT

CLIENT	FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION		
CONSULTANT	YYYY-MM-DD	2022-05-10	
	DESIGNED	SCN	
	PREPARED	BCL	
	REVIEWED	SN	
	APPROVED	RMW	

PROJECT	FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT		
TITLE	PROPOSED SHALLOW MONITORING WELL, DEEP MONITORING WELL, AND VERTICAL GROUNDWATER PROFILING LOCATIONS		
PROJECT NO.	CONTROL	REV.	FIGURE
21-451173	21451173-B019	----	17

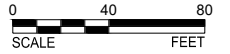
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOIL SAMPLE LOCATIONS
- ▲ VERTICAL GROUNDWATER PROFILING LOCATION
- ◆ EXPLORATORY SOIL BORING LOCATION
- PROPOSED SOIL SAMPLE LOCATION

- NOTE(S)**
1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
 2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
 3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
 4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
 5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
 6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
 7. ft bgs - FEET BELOW GROUND SURFACE.
 8. PFOA - PERFLUORO-N-OCTANOIC ACID.
 9. PFOS - PERFLUOROOCTANESULFONIC ACID.



Path: \\golder-gfiscm\projects\client\assessments\21451173\FDEP_Miami_Dade\B - PFAS_Soil_GW_Assessment\Drawings - 1 File Name: 21451173-B020.dwg

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIB

SB-26	PFOA	PFOS
DATE	9/1/21	
0-0.5 ft bgs	0.37 I	2.1
0.5-2 ft bgs	0.20 U	0.65 I
2-4 ft bgs	0.21 U	0.21 U

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

CLIENT	FL. DEPARTMENT OF ENVIRONMENTAL PROTECTION
CONSULTANT	WSP GOLDER
DESIGNED	SN
PREPARED	BCL
REVIEWED	SN
APPROVED	RMW

PROJECT	FDEP MIAMI-DADE COLLEGE FIRE ACADEMY PFAS SOIL AND GROUNDWATER ASSESSMENT
TITLE	PROPOSED SOIL SAMPLE LOCATIONS
PROJECT NO.	21-451173
CONTROL	21451173-B020
REV.	
FIGURE	18

- REFERENCE(S)**
1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED JANUARY 2020.

APPENDIX A

Field Documentation

SOIL SAMPLE COLLECTION FORM

Project Name: Miami Dade College FTF PFAS
 Project Number: 21451173
 Sampled by: Scott N. and Anthony M.
 Sampling Location: AOC-1

Sample ID: SB-8 → SB-15
 Date: 8/31/21
 Type of Sampling Equipment: _____
 Sampling Method: Hand Auger
Grab

SAMPLE COLLECTION LOCATION SKETCH:

AOC-1

See Map + GPS coordinates

Depth to Groundwater:

Sample ID	Time Collected	Depth Interval	Soil Description
SB-8-0.5	0915	0' - 0.5'	Gray Fine sand, DRY, No Odor
SB-8-2.0	0920	0.5' - 2.0'	" " "
SB-8-4.0	0930	2.0' - 4.0'	" " "
SB-9-0.5	0945	0' - 0.5'	Gray Fine Sand, DRY, N.O.
SB-9-2.0	0955	0.5' - 2.0'	Dark Gray Fine sand with gravel, M, N.O.
SB-9-4.0	1005	2.0' - 4.0'	" " "
SB-10-0.5	1010	0' - 0.5'	Gray Fine Sand, Dry, N.O. (w/ gravel)
SB-10-2.0	1015	0.5' - 2.0'	Light Tan FS, M, N.O.
SB-10-4.0	1025	2.0' - 4.0'	" " "
SB-11-0.5	1040	0' - 0.5'	Gray Fine Sand + gravel, Dry, N.O.
SB-11-2.0	1050	0.5' - 2.0'	" " " Moist, N.O.
SB-11-4.0	1100	2.0' - 4.0'	" " " "
SB-12-0.5	1120	0' - 0.5'	Gray Fine sand + gravel Dry
SB-12-2.0	1125	0.5' - 2.0'	Pan FS, Dry, No Odor
SB-12-4.0	1130	2.0' - 4.0'	" "
SB-13-0.5	1135	0' - 0.5'	Dark Gray FS + gravel, DRY, N.O.
SB-13-2.0	1140	0.5' - 2.0'	Gray FS, Dry, No odor, + gravel
SB-13-4.0	1145	2.0' - 4.0'	Tan FS, M, N.O.
SB-7R-2		0' - 0.5'	
SB-7R-4.0		2.0' - 4.0'	Refusal in Roadbase
SB-1R-4.0		2.0' - 4.0'	Refusal in Roadbase under ~3.5" asphalt
ERB-1	1230	0' - 0.5'	From HA Bucket
		0.5' - 2.0'	Limerock and gray sand, DRY, N.O. (see)
		2.0' - 4.0'	
SB-14-0.5	1305	0' - 0.5'	Limerock + gray sand, DRY N.O.
SB-14-2.0	1310	0.5' - 2.0'	" " " N.O.
SB-14-4.0	1315	2.0' - 4.0'	Light tan med. sand, M, N.O.
SB-15-0.5	1325	0' - 0.5'	Limerock + gray fine sand, DRY, N.O.
SB-15-2.0	1330	0.5' - 2.0'	Limerock + gray " " " "
SB-15-4.0	1335	2.0' - 4.0'	Light tan med. sand, M, N.O.

★ QA/QC sample

SOIL SAMPLE COLLECTION FORM

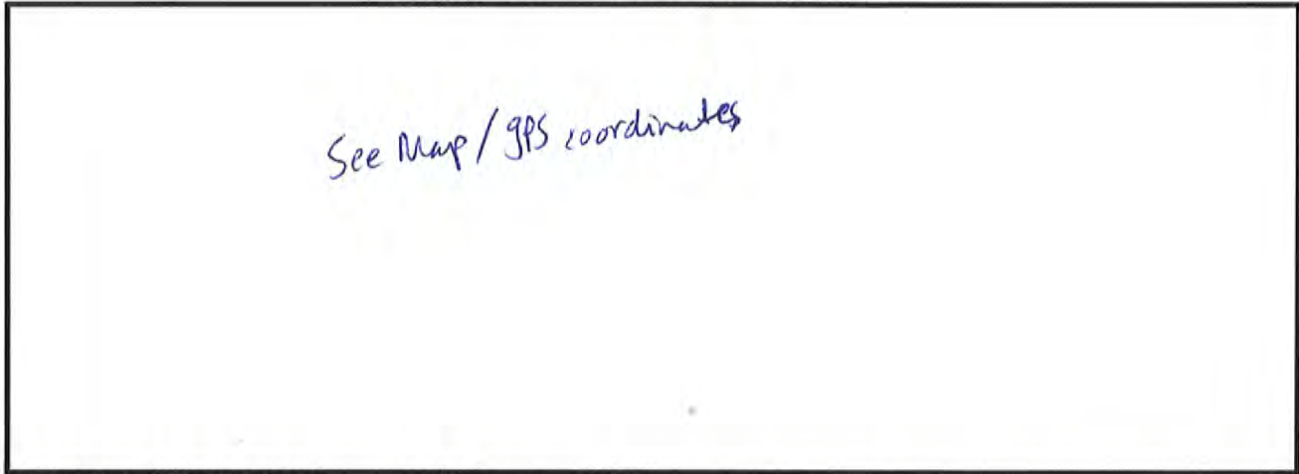
Project Name: Miami Dade College FTF PFAS
 Project Number: 21451173
 Sampled by: Scott N. and Anthony M.
 Sampling Location: _____

Sample ID: SB-16 → SB-20
 Date: 8/31/21

Type of Sampling Equipment: _____

Sampling Method: Hand Auger
Grab

SAMPLE COLLECTION LOCATION SKETCH:



Depth to Groundwater: >4

Sample ID	Time Collected	Depth Interval	Soil Description
SB-16-0.5	1500	0' - 0.5'	Gray FS SOME GRAVEL, NO odor, Dry
SB-16-2.0	1505	0.5' - 2.0'	Tan FS, NO odor, Dry
SB-16-4.0	1510	2.0' - 4.0'	" " " "
SB-17-0.5	1550	0' - 0.5'	gray FS, DRY, No odor
SB-17-2.0	1555	0.5' - 2.0'	Gray + Tan FS, Dry, No odor
SB-17-4.0	1605	2.0' - 4.0'	Tan FS, Moist, no odor
SB-18-0.5	1615	0' - 0.5'	Gray FS w/ limestone, Dry, NO odor
SB-18-2.0	1620	0.5' - 2.0'	" " " "
SB-18-4.0	1625	2.0' - 4.0'	Gray Tan FS
SB-19-0.5	1630	0' - 0.5'	Brown FS, Moist Dry, N.O.
SB-19-2.0	1635	0.5' - 2.0'	Brown + Tan FS, M, N.O.
SB-19-4.0	1645	2.0' - 4.0'	" " " "
SB-20-0.5	1650	0' - 0.5'	Brown FS, DRY, No odor
SB-20-2.0	1655	0.5' - 2.0'	Brown + Tan FS w/ limestone, Dry, N.O.
SB-20-4.0	1705	2.0' - 4.0'	Tan FS, M, N.O.
★ EQB-2	1710	0' - 0.5'	Equip Blank from Hand Auger Bucket
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	

★ QA/QC sample

SOIL SAMPLE COLLECTION FORM

Project Name: Miami Dade College FTF PFAS
 Project Number: 21451173
 Sampled by: Scott N. and Anthony M.
 Sampling Location: Miami Dade College
AOL-3

Sample ID: SB-21 → SB-28
 Date: 9/1/2021
 Type of Sampling Equipment: _____
 Sampling Method: Hand Auger
Grab

SAMPLE COLLECTION LOCATION SKETCH:



Depth to Groundwater: ~4

Sample ID	Time Collected	Depth Interval	Soil Description
SB-21-0.5	0915	0'-0.5'	Gray Fine Sand, DRY, NO odor
SB-21-2.0	0925	0.5'-2.0'	" " " "
SB-21-4.0	0930	2.0'-4.0'	Gray + white FS, Moist, No O.
SB-22-0.5	0935	0'-0.5'	Gray FS some Gravel, Dry, N.O.
SB-22-2.0	0940	0.5'-2.0'	Gray FS with Gravel, Moist, N.O.
SB-22-4.0	0945	2.0'-4.0'	Tan FS; Moist no odor
SB-23-0.5	0955	0'-0.5'	Gray FS and Gravel, Dry, N.O.
SB-23-2.0	1000	0.5'-2.0'	" " " Moist, N.O.
SB-23-4.0	1005	2.0'-4.0'	Tan FS, Moist, N.O.
SB-24-0.5	1000	0'-0.5'	Gray FS, Dry w/ Gravel N.O.
SB-24-2.0	1005	0.5'-2.0'	Gray FS, Dry AND Gravel
SB-24-4.0	1010	2.0'-4.0'	Tan FS; Moist, N.O.
SB-25-0.5	1110	0'-0.5'	Dark Brown Fine Sand, M, N.O.
SB-25-2.0	1115	0.5'-2.0'	Gray FS, M, N.O.
SB-25-4.0	1120	2.0'-4.0'	Gray + Tan FS, M, N.O.
SB-26-0.5	1215	0'-0.5'	Gray FS with gravel, Dry, N.O.
SB-26-2.0	1220	0.5'-2.0'	" " " " " "
SB-26-4.0	1230	2.0'-4.0'	Tan FS, M, N.O.
EQB-3	1230	0'-0.5'	Equip Blank from auger bucket
SB-27-0.5	1230	0.5'-2.0'	" " " " " "
SB-27-2.0	1235	2.0'-4.0'	" " " " " "
SB-27-4.0	1245	0'-0.5'	" " " " " "
		0.5'-2.0'	
		2.0'-4.0'	
SB-27-0.5	1236	0'-0.5'	Brown Fine Sand and 1/8 gravel, Dry, No odor
SB-27-2.0	1240	0.5'-2.0'	" " " " " D, N.O.
SB-27-4.0	1245	2.0'-4.0'	Tan FS with gravel, M, N.O.
SB-28-0.5	1330	0'-0.5'	gray Sand w/ Gravel, Dry, No odor
SB-28-2.0	1335	0.5'-2.0'	" " " " " "
SB-28-4.0	1340	2.0'-4.0'	Tan Fine Sand, Moist, N.O. To Dark Brown

★
 (SW)
 (SW)

★ = QA/QC - Sample

SOIL SAMPLE COLLECTION FORM

SED-1,2,3

Project Name: Miami Dade College FTF PFAS
 Project Number: 21451173
 Sampled by: Scott N. and Anthony M.
 Sampling Location: Miami Dade College
AOC 4

Sample ID: SB-29 → SB-32
 Date: 9/1/2021
 Type of Sampling Equipment: _____
 Hand Auger _____
 Sampling Method: Grab / comp.

SAMPLE COLLECTION LOCATION SKETCH:

See Maps + GPS coordinates

Depth to Groundwater: > 4

Sample ID	Time Collected	Depth Interval	Soil Description
SB-29-0.5	1340	0' - 0.5'	light gray FS + gravel, Dry, No odor
SB-29-2.0	1345	0.5' - 2.0'	Gray FS, Dry, No odor
SB-29-4.0	1350	2.0' - 4.0'	Tan FS, M, N.O.
SB-30-0.5	1400	0' - 0.5'	Light Gray FS + limrock, Dry, N.O.
SB-30-2.0	1405	0.5' - 2.0'	gray FS + gravel, Dry, N.O.
SB-30-4.0	1415	2.0' - 4.0'	Tan + white FS, M, N.O.
SB-31-0.5	1410	0' - 0.5'	Dark Gray FS + gravel, Dry, N.O.
SB-31-2.0	1415	0.5' - 2.0'	Gray to Tan FS, moist, N.O.
SB-31-4.0	1425	2.0' - 4.0'	Tan FS, moist, N.O.
FRB-SB-32	1435	0' - 0.5'	FRB collect at SB-32
		0.5' - 2.0'	(SW)
		2.0' - 4.0'	(SW)
SB-32-0.5	1440	0' - 0.5'	Gray FS, DRY, NO odor + gravel
SB-32-2.0	1445	0.5' - 2.0'	gray FS, Dry, No odor
SB-32-4.0	1455	2.0' - 4.0'	Brown + light tan Fine Sand, M, N.O.
SED-1	1630	0' - 0.5'	Tan FS + silt, Sediment sample
SED-2	1700	0.5' - 2.0'	Tan FS + Brown silt, "
SED-3	1735	2.0' - 4.0'	Brown silt + sand, "
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	

★ Field Reagent Blank QA/QC

★★ EQB-4 collected through Hilde tubing + peristaltic Pump (1705)
 FRB-SW-2 collected @ 1710

SOIL SAMPLE COLLECTION FORM

Project Name: Miami Dade College FTF PFAS
 Project Number: 21451173
 Sampled by: Scott N. and Anthony M.
 Sampling Location: _____

Sample ID: SB-33 → SB-42
 Date: 9/2/2021
 Type of Sampling Equipment: _____
 Sampling Method: Hand Auger
Grab / Comp.

SAMPLE COLLECTION LOCATION SKETCH:

See Maps + GPS coordinates

Depth to Groundwater: >4

Sample ID	Time Collected	Depth Interval	Soil Description
SB-33-0.5	0915	0' - 0.5'	Gray FS, Dry, No Odor
SB-33-2.0	0920	0.5' - 2.0'	Gray + Tan FS, M, N.O.
SB-33-4.0	0925	2.0' - 4.0'	Tan FS + gravel, M, N.O.
SB-34-0.5	0945	0' - 0.5'	Gray FS, Dry, No odor
SB-34-2.0	0950	0.5' - 2.0'	Gray + Tan FS, Moist, No odor
SB-34-4.0	0955	2.0' - 4.0'	Tan FS, M, No odor
SB-35-0.5	1015	0' - 0.5'	Gray to Dark Gray FS, Dry, N.O.
SB-35-2.0	1020	0.5' - 2.0'	Gray to Tan FS, M, N.O.
SB-35-4.0	1025	2.0' - 4.0'	Tan to Orange FS, M; TRACE GR N.O.
SB-36-0.5	1030	0' - 0.5'	Gray FS + debris, Dry, N.O.
SB-36-2.0	1035	0.5' - 2.0'	Gray FS + debris, Dry, N.O.
SB-36-4.0	1040	2.0' - 4.0'	no sample, concrete + asphalt at 2' bgs
SB-37-0.5	1045	0' - 0.5'	Black FS, Dry, N.O.
SB-37-2.0	1050	0.5' - 2.0'	light gray + Tan FS, Moist, N.O.
SB-37-4.0	1055	2.0' - 4.0'	" " " " " "
SB-38-0.5	1120	0' - 0.5'	Brown FS, Dry, N.O. odor
SB-38-2.0	1125	0.5' - 2.0'	Tan FS, M, N.O.
SB-38-4.0	1130	2.0' - 4.0'	Tan FS, M, N.O.
SB-39-0.5	1135	0' - 0.5'	Gray FS, Dry, No odor
SB-39-2.0	1140	0.5' - 2.0'	Brown + tan, FS, M, N.O.
SB-39-4.0	1145	2.0' - 4.0'	" " " " " " w/gravel
SB-40-0.5	1220	0' - 0.5'	Brown FS, Dry, No odor
SB-40-2.0	1225	0.5' - 2.0'	Tan + Brn FS, M, No odor
SB-40-4.0	1230	2.0' - 4.0'	Tan FS, M, No odor
SB-41-0.5	1235	0' - 0.5'	Brn FS, M, No odor
SB-41-2.0	1240	0.5' - 2.0'	Light Tan + Brn FS, M, No odor
SB-41-4.0	1245	2.0' - 4.0'	Light tan FS, M, No odor
SB-42-0.5	1250	0' - 0.5'	Gray FS, Dry, No odor
SB-42-2.0	1255	0.5' - 2.0'	Tan FS, M, N.O.
SB-42-4.0	1300	2.0' - 4.0'	Tan + Brn FS + gravel, M, N.O.

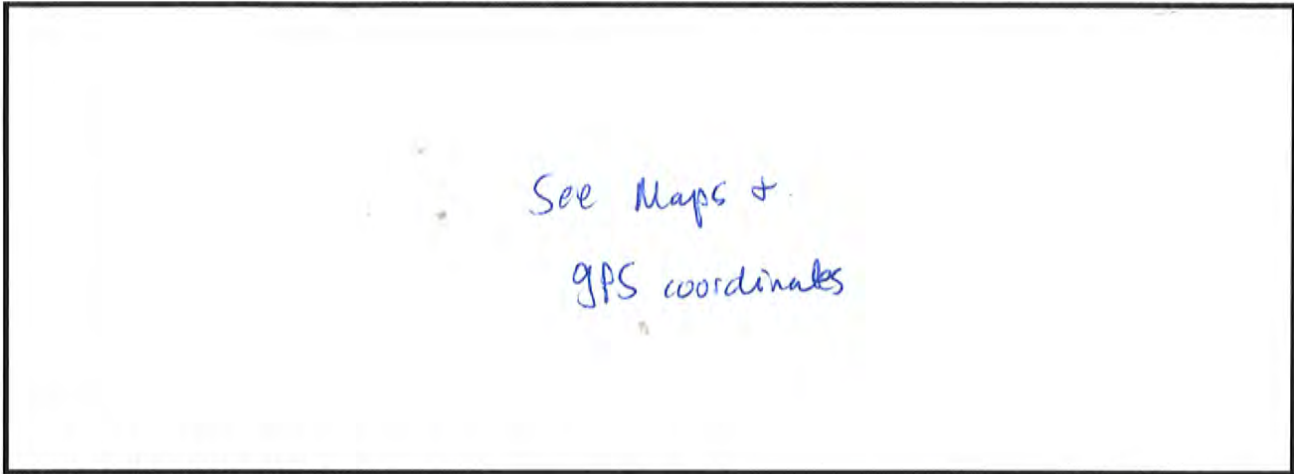
★ 0905 - EQB-5 taken from HA bucket. Plus MS/MSD, DI; Prod-0080826
 ★ 1150 - EQB-6 taken from HA Bucket, Same bottle of DI → container - 0080822

SOIL SAMPLE COLLECTION FORM

Project Name: Miami Dade College FTF PFAS
 Project Number: 21451173
 Sampled by: Scott N. and Anthony M.
 Sampling Location: _____

Sample ID: SB-43 → SB-47, SB-5R
 Date: 9/2/2021
 Type of Sampling Equipment: _____
 Sampling Method: Hand Auger
Grab

SAMPLE COLLECTION LOCATION SKETCH:



Depth to Groundwater:

Sample ID	Time Collected	Depth Interval	Soil Description
SB-43-0.5	1305	0' - 0.5'	gray FS, Dry, N.O.
SB-43-2.0	1310	0.5' - 2.0'	Tan FS, M, N.O.
SB-43-4.0	1315	2.0' - 4.0'	Tan + Brown FS, M, N.O.
SB-44-0.5	1320	0' - 0.5'	gray FS + rock, DRY, N.O.
SB-44-2.0	1325	0.5' - 2.0'	gray FS, Dry, N.O.
SB-44-4.0	1330	2.0' - 4.0'	Tan FS, M, No odor
SB-45-0.5	1335	0' - 0.5'	Light gray FS and Gravel, DRY, N.O.
SB-45-2.0	1340	0.5' - 2.0'	Grey to Tan FS / TRACE Gravel, M. no
SB-45-4.0	1345	2.0' - 4.0'	Tan FS, Moist, N.O.
SB-46-0.5	1405	0' - 0.5'	Rock and tan FS, DRY, N.O.
SB-46-2.0	1410	0.5' - 2.0'	gray FS, M, N.O.
SB-46-4.0	1415	2.0' - 4.0'	Tan FS, M, N.O.
SB-47-0.5	1420	0' - 0.5'	gray FS and rock, DRY, N.O.
SB-47-2.0	1425	0.5' - 2.0'	gray and tan FS with rock, D, N.O.
SB-47-4.0	1430	2.0' - 4.0'	Tan FS, M, N.O.
SB-5R-2.4	1500	0' - 0.5'	(SN)
_____	_____	0.5' - 2.0'	_____
SB-5R-4.0	1500	2.0' - 4.0'	Tan FS, M, N.O.
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	

EQB-7 - 1350 - Equip Blank from Auger Bucket. BI bottle: Prod # 00080826
 Container # 000826

SOIL SAMPLE COLLECTION FORM

Project Name: Miami Dade College FTF PFAS
 Project Number: 21451173
 Sampled by: Scott N. and Anthony M. (SN)
 Sampling Location: AOC-1

Sample ID: SB-1R & 2R; SB-48-53
 Date: 10/12, 10/13
 Type of Sampling Equipment: _____
 Sampling Method: Hand Auger
Grab

SAMPLE COLLECTION LOCATION SKETCH:

*SB-48 - >12" concrete. 0'-0.5' sample taken from soil/roadbase directly under slab

SEE maps for locations

Depth to Groundwater:

Sample ID	Time Collected	Depth Interval	Soil Description
SB-2R-0.5	Not Sampled	0' - 0.5'	Brown FS w/ LS, Moist, No odor
SB-2R-2.0	Not Sampled	0.5' - 2.0'	Gray FS, M, N.O.
SB-2R-4.0	1445	2.0' - 4.0'	Moist Gray FS, N.O.
SB-4R-0.5	Not Sampled	0' - 0.5'	LS Roadbase + Gray FS, M, No odor
SB-4R-2.0	Not Sampled	0.5' - 2.0'	Gray FS, M, N.O.
SB-4R-4.0	1435	2.0' - 4.0'	Gray + Dark gray FS, M/W, N.O.
SB-48-0.5	0810	0' - 0.5'	Roadbase (LS) + Gray FS, M, N.O.
SB-48-2.0	0815	0.5' - 2.0'	Brown + Gray FS w/ LS gravel, M, N.O.
SB-48-4.0	0818	2.0' - 4.0'	Light Gray FS, M, N.O.
SB-49-0.5	1003	0' - 0.5'	Brn Fine Sand w/ LS gravel, M, N.O.
SB-49-2.0	1005	0.5' - 2.0'	Light tan FS, M, N.O.
SB-49-4.0	1010	2.0' - 4.0'	" " " "
SB-1R-0.5	Not Sampled	0' - 0.5'	Brn FS + limestone rock, M, N.O.
SB-1R-2.0	Not Sampled	0.5' - 2.0'	Gray FS + gravel, M, N.O.
SB-1R-4.0	0855	2.0' - 4.0'	light gray FS, M, N.O.
SB-50-0.5	0816	0' - 0.5'	Dark Brown FS, M, No odor
SB-50-2.0	0818	0.5' - 2.0'	Brown + Gray FS, M, N.O.
SB-50-4.0	0820	2.0' - 4.0'	Light gray FS, M, N.O.
SB-51-0.5	0848	0' - 0.5'	Brown FS + LS gravel, M, N.O.
SB-51-2.0	0850	0.5' - 2.0'	Gray FS, M, N.O.
SB-51-4.0	0852	2.0' - 4.0'	Light gray
SB-52-0.5	0835	0' - 0.5'	DK Brn FS + gravel, M, N.O.
SB-52-2.0	0837	0.5' - 2.0'	gray FS, M, N.O.
SB-52-4.0	0840	2.0' - 4.0'	Light gray FS, M, N.O.
SB-53-0.5	0825	0' - 0.5'	Brown FS + gray FS, M, N.O.
SB-53-2.0	0828	0.5' - 2.0'	Light Gray FS, M, N.O.
SB-53-4.0	0830	2.0' - 4.0'	" " " "
		0' - 0.5'	
		0.5' - 2.0'	
		2.0' - 4.0'	

10/12/21

10/13/21

10/15/21

asphalt ~ 4" thick

8/21/2021

Miami - Dade College - Fire Training Facility
ERIC-7421; 3180 NW 119th St., Miami, FL

8/21/2021

Scott Neal, Anthony Morales

1200 - Pack truck at Golder, Jacksonville office

1300 - Leave Golder office.

1430 - Anthony leaves Golder office in Tampa in Rental truck

1830 - Hotel in Miami. Anthony M. (Golder) at hotel
off job

8/30/2021 Miami Dade College Fire Training Facility
ERIC-7421, 3180 NW 119th St., Miami, FL

Scott Neal, Anthony Morales, GeoTek, MDC

92°, cloudy/
light rain

0725 - MOB from hotel to site. SNeal + A. Morales (SoldeP)

0755 - Meet with Bud Connor (GeoTek), Check in with Miami-Dade College (MDC) Public Safety for badging.

0825 - Meet with Michael Allora (MDC Fire Science Coordinator), Review HASP + SOW.

0850 - lay out proposed shallow well, deep well, soil boring, vertical profiling, + exploratory soil boring locations. GeoTek scans areas with electromagnetic wand + GPR sled for subsurface utilities and/or obstructions. AOC 1 area.

1120 - Move to AOC 2 (Prop field). Layout and scan for subsurface utilities/obstructions at proposed locations same as AOC 1.

1230 - Move to AOC 3 (Former Hangar), Layout + scan locations same as AOC 1 + AOC 2.

1320-1340 - Rain - Can't use GPR. Resume at 1340.

1400 - Mark and scan 3 shallow well proposed across campus.

1500-1530 - Rain

1530 - AOC 4 (Maintenance/Receiving) to mark and scan locations.

1615 - GeoTek off site

1645 - Set up sampling equipment

1710 - off site

1740 - Hotel

~~SN~~ 8/30

8/31/2021 Miami Dade College Fire Training Facility
ERIC-7421, 3180 NW 119th St., Miami, FL

Scott Neal, Anthony Morales

92°, sunny

0725 - MoB from hotel to Miami Dade college

0755 - Check in with Security at College

0815 - Set up at AOC 1 - Fire Training Facility

0830 - Review SOW + HASP. PFAS SOPs

0900 - Begin soil sampling activities. See soil sample logs for times, lithologies, etc

1150 - Broke through asphalt (~3.5" thick) at SB-7 + SB-1 at AOC-1. Roadbase thick + compacted. Tried with breakerbars + hand augers for ~40 minutes. Abandoned borings in pavement until end of job due to slow pace.

1230 - EQB-1 equipment blank from decontaminated hand auger bucket.
DI water Prod # 0080826, container # 000301

1350 - 1440 - lunch

1445 - AOC-3, former Hangar. See Soil sample logs

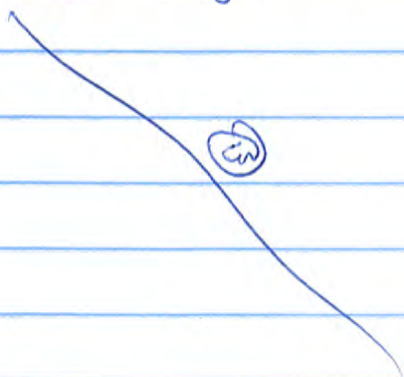
1710 - EQB-2 from Hand Auger Bucket. Same DI water as previous

1720 - ~~Empty~~ ^(C) Empty water from 5 decon buckets into labeled 55-gal drum at AOC-1.

1740 - off site

1750 - Ice for sample + drink coolers.

1820 - hotel. off job



9/1/2021 Miami-Dade College Fire Training Facility
ERIC-7421, 3180 NW 119~~th~~ St., Miami, FL

Scott Neal, Anthony Morales

92° (Rain PM)
cloudy

0700 - leave hotel

0715 - Store for water, ice, & food for lunch

0755 - Check in at Miami-Dade College Public Safety

0810 - Fire Station to load equipment. Review HASP, SOW, & PFAS SOPs.

0840 - AOC-3 (Hangar/Gym) & begin soil sampling. See Soil Sample Collection Field Forms for sample IDs, times, & lithologies

1030 - Temporary fence placed outside of SB-25. Call MDC personnel for access

1045 - Access area, resume sampling

1050 - Collect sample location coordinates with GPS

1130 - AOC-3 complete. Pack truck

1145-1215 - lunch. Move to MW-3 & county firehouse.

~~1210~~ 1215 - Resume sampling

1230 - EQB-3 from hand auger bucket

1310 - Move to AOC-4 and begin sampling. See soil collection forms.

1435 - Field reagent blank FRB-SB-32 at soil boring SB-32

1505 - Pack truck

1510 - 1600 - lightning Stand down

1610 - Begin sediment & surface water sampling. SW collected via Peristaltic Pump and helpe tubing. Sediment collected via hand auger.

1620 - SW-1 collected on western side of pond in the middle of campus

1630 - Sed-1 collected at SW-1 location

1655 - SW-2 collected in canal south of ~~SW~~ AOC-2. MS/MSD collected

1700 - Sed-2 collected at SW-2 location

1705 - EQB-4 collected through tubing and pump

1710 - Field Reagent blank FRB-SW-2 collected at SW-2 location

✓ (2)

9/1/2021 Miami-Dade College Fire Training Facility
ERIC-7421, 3180 NW 119th St. Miami, FL

(Rain in PM)

JNene, AMarales

92°, hazy

1730- collect SW-3 and duplicate Sample DUP-SW-3 from
canal south of AOC-4

1735- collect SED-3

1740- Pack trucks, Dump decon water in drum at AOC-1.

Buy ice for coolers. Drop off equip at AOC-1

1800- leave site

1825- hotel

9/2/2021 Miami-Dade College-Fire Training Facility
ERIC-7421, 3180 NW 119th St., Miami, FL

Scott Neal, Anthony Morales

90°, cloudy

0705 - leave hotel

0715 - Store for breakfast/lunch food, ice, field supplies

0800 - Check in at Campus Public Safety office

0815 - Fire College to pick up equipment. Review HASP, SOW, PFAS SOPs

0840 - AOC-4 (Plant Maintenance). Set up soil sampling equip.

0900 - Begin soil sampling. See Soil Sample collection field forms for lithologies, sample times, etc

0905 - EQB-5 from HA Bucket + MS/MSO

1105 - Move to AOC-2 (Fire Prop. training area) and begin sampling. See soil collection log.

1150 - EQB-6 collected from hand auger bucket

1155 - 1215 - lunch

1435 - Finish at AOC-3. Move to AOC-1

1500 - Resample former SB-5. Collect SB-SR-4 (2-4 ft logs)

1520 - Final decon of equipment. Drum decon water. 2 55-gal drums on site at AOC-1 and labeled

1525 - 1535 - lightning stand down

1600 - Pack all equip.

1615 - off site

1635 - hotel.

Ⓢ Ⓢ 1750 - EQB-7 from hand auger bucket

Ⓢ

Miami-Dade College - Fire Training Facility
ERIC-7421, 3180 NW 119th St. Miami, FL

9/3/2021 Scott Neal, Anthony Morales

90°, cloudy

0815 - Check out of hotel

0825 - Anthony returns to Golden Tampa office, SN returns
to Golden Jax office

1350 - Anthony ~~at~~ Tampa office

1445 - Golden Jacksonville office. Unload truck.

1530 - off job



SN

Daily PFAS Sampling Checklist

Date: 8/30/2021

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 92°, cloudy, Rain in PM^{#5}

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

No Sampling today

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 8/30/2021 0825

Daily PFAS Sampling Checklist

Date: 8/31/2021

Site Name: Miami Dade Fire Training Facility

Weather (temperature/precipitation): 92°, Sunny

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

1500, 1218
Project: ...
...
...

Notes:

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 8/31/21 0815

Daily PFAS Sampling Checklist

Date: 9/1/21

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): Hot, 92°, sunny

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Soil sampling with hand augers

Field Team Leader Name (Print): Scott Neal (Golder)

Field Team Leader Signature: Scott Neal

Date/Time: 9/1/21 0830

Daily PFAS Sampling Checklist

Date: 9/2/21

Site Name: Miami Dade College - Fire Training Facility

Weather (temperature/precipitation): hot, 93, cloudy

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Soil sampling

Field Team Leader Name (Print): Scott Neal / Gader

Field Team Leader Signature: Scott Neal

Date/Time: 9/2/21 0845

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA			
Well Number: DEPMW-1S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/12/2021
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)	Well Install Method: Direct-Push Technology
If AG, list feet of riser above land surface:		Surface Casing Install Method: Gravity	
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8
Well Pad Size: 2 feet by 2 feet		Riser Diameter and Material: 0.75-inch Sch 40 PVC	
Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 2 feet from 0 feet to 2 feet	
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	
Screen Length: 10 feet from 2 feet to 12 feet		1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	
1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	
2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	
3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Fine Sand		Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet	
Surface Seal Material: Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date: 10/13/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pum <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 5.9	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): 1	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 15	Development Duration (minutes): 20	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and Cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: Clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Started development at 1740, ended at 1757. 18 NTUs at end of development.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA			
Well Number: DEPMW-2S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/13/2021
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)	Well Install Method: Direct-Push Technology
If AG, list feet of riser above land surface:		Surface Casing Install Method: Gravity	
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8
Well Pad Size: 2 feet by 2 feet			
Riser Diameter and Material: 0.75-inch Sch 40 PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 2 feet from 0 feet to 2 feet	
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	Screen Length: 10 feet from 2 feet to 12 feet
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet	
Filter Pack Seal Material and Size: 30/65 Fine Sand		Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet	
Surface Seal Material: Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date: Not yet developed	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pum <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): --	
Pumping Rate (gallons per minute): --	Maximum Drawdown of Groundwater During Development (feet): --	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): --	Development Duration (minutes): --	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: --		Water Appearance (color and odor) At End of Development: --	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Active firefighter training did not allow for development. Well will be developed during a future mobilization.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: DEPMW-3S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/13/2021		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct-Push Technology	
If AG, list feet of riser above land surface:				Surface Casing Install Method: Gravity	
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet	
Riser Diameter and Material: 0.75-inch Sch 40 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 2 feet from 0 feet to 2 feet		
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	Screen Length: 10 feet from 2 feet to 12 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet		
Filter Pack Seal Material and Size:		30/65 Fine Sand	Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet		
Surface Seal Material:		Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date: 10/13/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 6	
Pumping Rate (gallons per minute): 1.0	Maximum Drawdown of Groundwater During Development (feet): 1	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 19	Development Duration (minutes): 20	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: 30 NTUs, clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1020 - 1050.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: DEPMW-4S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/13/2021	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct-Push Technology
If AG, list feet of riser above land surface:		Surface Casing Install Method: Gravity		
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet
Riser Diameter and Material: 0.75-inch Sch 40 PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 2 feet from 0 feet to 2 feet		
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	Screen Length: 10 feet from 2 feet to 12 feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet	
Filter Pack Seal Material and Size: 30/65 Fine Sand		Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet		
Surface Seal Material: Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date: 10/14/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 5.1	
Pumping Rate (gallons per minute): 1.0	Maximum Drawdown of Groundwater During Development (feet): 2	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 17	Development Duration (minutes): 20	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: 32 NTUs, clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1125 - 1145.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: DEPMW-5S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/13/2021	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct-Push Technology
If AG, list feet of riser above land surface:		Surface Casing Install Method: Gravity		
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet
Riser Diameter and Material: 0.75-inch Sch 40 PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 2 feet from 0 feet to 2 feet		
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	Screen Length: 10 feet from 2 feet to 12 feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet	
Filter Pack Seal Material and Size: 30/65 Fine Sand		Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet		
Surface Seal Material: Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date: 10/13/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 5.1	
Pumping Rate (gallons per minute): 1.0	Maximum Drawdown of Groundwater During Development (feet): 1.5	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 18	Development Duration (minutes): 20	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: 31.7 NTUs, clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1620 - 1640.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA			
Well Number: DEPMW-6S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/13/2021
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)	Well Install Method: Direct-Push Technology
If AG, list feet of riser above land surface:		Surface Casing Install Method: Gravity	
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8
Well Pad Size: 2 feet by 2 feet		Riser Diameter and Material: 0.75-inch Sch 40 PVC	
Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 2 feet from 0 feet to 2 feet	
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	
Screen Length: 10 feet from 2 feet to 12 feet		1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	
1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	
2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	
3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Fine Sand		Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet	
Surface Seal Material: Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date: 10/13/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 5.9	
Pumping Rate (gallons per minute): 1.0		Maximum Drawdown of Groundwater During Development (feet): 1	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons): 19	Development Duration (minutes): 20
Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs	
Water Appearance (color and odor) At End of Development: 24.3 NTUs, clear, no odor			

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1710 - 1730.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA			
Well Number: DEPMW-7S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/14/2021
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)	Well Install Method: Direct-Push Technology
If AG, list feet of riser above land surface:		Surface Casing Install Method: Gravity	
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8
Well Pad Size: 2 feet by 2 feet		Riser Diameter and Material: 0.75-inch Sch 40 PVC	
Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 2 feet from 0 feet to 2 feet	
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	
Screen Length: 10 feet from 2 feet to 12 feet		1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	
1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	
2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	
3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet
Filter Pack Seal Material and Size: 30/65 Fine Sand		Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet	
Surface Seal Material: Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date: 10/14/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 5	
Pumping Rate (gallons per minute): 1.0	Maximum Drawdown of Groundwater During Development (feet): 1.5	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 16	Development Duration (minutes): 20	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: 9.80 NTUs, clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1210 -1230.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: DEPMW-8S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/14/2021		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct-Push Technology	
If AG, list feet of riser above land surface:				Surface Casing Install Method: Gravity	
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet	
Riser Diameter and Material: 0.75-inch Sch 40 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 2 feet from 0 feet to 2 feet		
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	Screen Length: 10 feet from 2 feet to 12 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet		
Filter Pack Seal Material and Size:		30/65 Fine Sand	Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet		
Surface Seal Material:		Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date: 10/14/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 6.5	
Pumping Rate (gallons per minute): 0.6	Maximum Drawdown of Groundwater During Development (feet): 5.5	Well Purged Dry (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 20	Development Duration (minutes): 30	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: 36 NTUs, clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1625 - 1655. Pumped dry at 1.0 gpm. Recharged and developed at approx 0.6 gpm.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: DEPMW-9S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/14/2021		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct-Push Technology	
If AG, list feet of riser above land surface:				Surface Casing Install Method: Gravity	
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet	
Riser Diameter and Material: 0.75-inch Sch 40 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 2 feet from 0 feet to 2 feet		
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	Screen Length: 10 feet from 2 feet to 12 feet		
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet		
Filter Pack Seal Material and Size:		30/65 Fine Sand	Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet		
Surface Seal Material:		Porland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet	

WELL DEVELOPMENT DATA			
Well Development Date: 10/14/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 7	
Pumping Rate (gallons per minute): 0.6	Maximum Drawdown of Groundwater During Development (feet): 5	Well Purged Dry (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 19	Development Duration (minutes): 35	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: 12.1 NTUs, clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1730 - 1805. Pumped dry at 1.0 gpm. Recharged and developed at approx 0.5 gpm.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: DEPMW-10S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/15/2021	
Well Location and Type (check appropriate boxes): <input type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input checked="" type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct-Push Technology
If AG, list feet of riser above land surface:		Surface Casing Install Method: Gravity		
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet
Riser Diameter and Material: 0.75-inch Sch 40 PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 2 feet from 0 feet to 2 feet		
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch	Screen Length: 10 feet from 2 feet to 12 feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from _____ feet to _____ feet		
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet		
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet		
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet		
Filter Pack Seal Material and Size: 30/65 Fine Sand		Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet		
Surface Seal Material: Portland Type II Cement Grout		Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date: 10/15/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)	Depth to Groundwater (before developing in feet): 7		
Pumping Rate (gallons per minute): 1.0	Maximum Drawdown of Groundwater During Development (feet): 4	Well Purged Dry (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 20	Development Duration (minutes): 20	Development Water Drummed (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: 38 NTUs, clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1050 - 1110. Well located at County Fire Station NW of AOC-1.

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: DEPMW-11S	Site Name: Miami Dade College Fire Training Facility	FDEP Facility I.D. Number: ERIC_7421	Well Install Date(s): 10/15/2021		
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Direct-Push Technology	
If AG, list feet of riser above land surface:				Surface Casing Install Method: Gravity	
Borehole Depth (feet): 12	Well Depth (feet): 12	Borehole Diameter (inches): 2.25	Manhole Diameter (inches): 8	Well Pad Size: 2 feet by 2 feet	
Riser Diameter and Material: 0.75-inch Sch 40 PVC	Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: 2 feet from 0 feet to 2 feet			
Screen Diameter and Material: 2-inch O.D. Prepack with 0.75-inch Sch 40 PVC screen		Screen Slot Size: 0.010-inch		Screen Length: 10 feet from 2 feet to 12 feet	
1 st Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from _____ feet to _____ feet	
2 nd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from _____ feet to _____ feet	
3 rd Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from _____ feet to _____ feet	
Filter Pack Material and Size: 20/30 Sand	Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 10.25 feet from 1.75 feet to 12 feet		
Filter Pack Seal Material and Size: 30/65 Fine Sand			Filter Pack Seal Length: 0.25 feet from 1.5 feet to 1.75 feet		
Surface Seal Material: Portland Type II Cement Grout			Surface Seal Length: 1 feet from 0.5 feet to 1.5 feet		

WELL DEVELOPMENT DATA			
Well Development Date: 10/15/2021	Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)		
Development Pump Type (check): <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): 6	
Pumping Rate (gallons per minute): 1.0	Maximum Drawdown of Groundwater During Development (feet): 1	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 15	Development Duration (minutes): 20	Development Water Drummed (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Gray and cloudy, no odor. >1,000 NTUs		Water Appearance (color and odor) At End of Development: 9.70 NTUs, clear, no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS
Development: 1220 - 1240.

88°, cloudy

Miami Dade College - Fire Training Facility; ERIC-7421
Miami, FL

10/11/2021

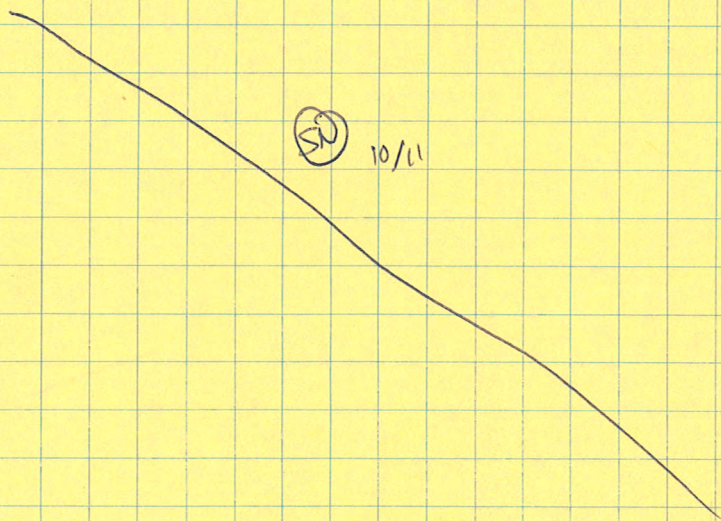
Groundwater Protection, Scott Neal

- 0445 - Pack Rental truck at Golden Jacksonville, FL office
- 0545 - Drive to Miami Dade College North Campus in Miami, FL
- 0700 - Groundwater Protection (Christian + Dave) leave Orlando, FL in Box truck with trailer, GeoProbe 8220DT drill rig, + Stakebed truck support vehicle hauling ~700 gal of PFAS-free water for decon + drilling water.
- 1130 - On site. Check in with campus personnel to discuss access
- 1200 - GWP on site. All check in with Miami Dade College (MDC) Public Safety office.
- 1230 - Move vehicles + Equip to Fire Training Facility (FTF) staging area.
- 1245 - Review HASP + SOW. GWP unloads equipment + builds decontamination ~~site~~ pit per SOPs.
*⊙ Review PFAS SOPs + complete daily checklist
- 1305 - Discuss SOW with FTF Fire Chief Noel + scheduling. Mark locations based off Previous MOB locates.
- 1350 - Heavy Rain. Lightning
- 1538 - End Stand down. Decon DPT tooling
- 1600 - DPT rig to driver training area for background Explorator Soil boring using 2 1/4" dPT barrels and 2" high-impact liner sleeves for continuous core to 100' bgs or refusal. See Log.
- 1745 - Refusal at ~51 ft bgs
- 1750 - Call Jeff Newton (FDEP) to discuss Exploratory Boring and changes to SOW *
- 1800 - Work area cleaned + borehole filled with Portland Type II grout
- 1810 - Stage equipment + drum soils
- 1830 - All off site
- 1855 - Hotel; off job

*⊙ Changes in SOW:

Shallow wells to be 12' total depth. Screened 2-12 ft

Vertical profile intervals: 16'-20', 26'-30', 36'-40', 46'-50' - if possible
continue deeper if possible



10/11/21

1600-1745

Exp. Boring - 1

Depth BGS (ft)	Lithology
0-1	Dark Brown FS M, No odor
1-2	Light gray FS, M, N.O.
2-4	Tan FS, M, N.O.
4-5	Tan FS, sat Sat, N.O.
5-6	Tan silty sand, Sat N.O.
6-7	Tan FS, Sat, N.O. w/ LS gravel (<10%)
7-10	Gray FS w/ some (<10%) LS gravel, Sat, N.O.
10-15	Brn\Light gray FS, Sat, N.O.
15-20	Light gray FS, Sat, N.O.
20-22.5	Light Gray Med sand, Sat, N.O.
22.5-25	White/light Gray coarse sand, Sat, N.O.
25-30	White/light Gray coarse sand, Sat, N.O.
30-35	No recovery - sleeve not opened
30-35	No Recovery, Sleeve not opened
35-40	White\light Gray Fine Sand, Sat, N.O.
40-44	Same as above
44-47	white limestone w/ white silt/clay ($\leq 10\%$), sat, N.O.
47-50	white limestone with hard calcite concretions, sat, N.O.
51	Refusal

Miami Dade College - Fire Training Facility, ERIC-7421 10/11/2021
Groundwater Protection - Christian & Dave - GeoProbe B2200T DPT, Golder - Scott Neal
Miami, FL

Miami Dade College - Fire Training Facility; ERIC-7421

10/12/2021

Miami, FL

Golder Assoc - Scott Neal

Groundwater Protection - Christian + Dave

83°, cloudy

- 0635 - leave hotel
- 0700 - GWP + Golder check in with Campus Public Safety
- 0715 - Fire Training Staging area. Review S.O.W. + HASP including PFAS checklist/SOPs
- 0730 - Decon DPT tooling in decon pit
- 0740 - Check with County Fire
- 0815 - Move to AOC-4 SB-33 location to install Shallow Well and Vertical Groundwater Profiling point. Vertical Profiling sampling is completed using decontaminated 2 1/4" stainless steel, decontaminated tooling with DPT rig. Each interval uses a separate 4-foot screen point decontaminated at decon pit. Purge for 5 gallons then sample. Peristaltic pump. HDPE tubing ^{replac}
- 0830 - Set up rig on VP-1. DPT to VP intervals
- 0935 - Collect VP-1-16-20 for PFAS - 19.70 ntus, 4 gal purged
- 1035 - Collect VP-1-26-30 for PFAS - 19.5 ntus, 3.5 gal purged
- 1120 - VP-1-36-40 >1000 ntus after adjusting flow rate. Sand pumping through screen. will collect 3rd bottle for filtration at lab
- 1125 - Collect VP-1-36-40 for PFAS. >1000 ntus, 5 gal purged. 3rd bottle collected for filtration
- 1215 - ~~VP-1-46-50~~ Collect VP-1-46-50 for PFAS. >1000 ntus, 5 gal purged. 3rd bottle collected for filtration
- 1230 - Refusal at 52' bgs. No further VP samples
- 1240 - Install DEPMW-15 well at VP-1/SB-33 location. See well construction Log. 0.75" well installed 12' bgs with 2-12' screen.
- 1315 - Finish 2'x2' concrete pad
- 1345 - AOC-1 staging area to decon equipment
- 1425 - Break asphalt at former SB-4 area in AOC-1. Hand auger to clear utilities SB-4R
- 0-0.5' - Roadbase + gray FS, Moist, N.O. } See soil sampling collection form
- 0.5-2.0' Gray Fine Sand, M, N.O. }
- 2.0-4.0' - Gray/Dark Gray FS, M/W, No odor }
- 1435 - Collect SB-4R-4.0 soil sample for PFAS 2-4' interval
- 1445 - Collect SB-2R-4.0 soil " " " " " " 2-4' moist Gray FS, N.O.
- 1445 - VP-2 for Vertical GW profiling samples. Same methods as VP-1
- 1510 - VP-2-16-20 collected for PFAS. 810 NTUS, 5-gal, 3rd bottle collected
- 1545 - VP-2-26-30 " " " " >1000 NTUS, 4.5 gal, " " "
- 1620 - VP-2-36-40 " " " " 900 NTUS, 4 gal, " " "
- 1700 - VP-2-46-50 " " " " >1000 NTUS, 5 gal, " " "
- 1705 - Dup-VP-2-46-50 " " " " 3 bottles collected. Duplicate Sample
- 1715 - Refusal at 51 ft
- 1720 - Clean work area
- 1745 - off site.
- 1815 - hotel. off job

85°, sunny/clouds

Miami Dade College Fire Training Facility; ERIC-7421

10/13/2021

Golder-Scott Neal, Groundwater Protection-Christian, Dave

- 0640- leave hotel
- 0700- Golder + GWP check in with campus security / Public Safety
- 0720- AOC-1 staging area. Review SOW, HASP, + PFAS Checklist
- 0735- Decontaminate DPT tooling + set up rig on DEPMW-2S/SB-48 location to the east of the training tower
- 0800- 10" core through concrete at SB-48/DEPMW-2S. Concrete > 12" thick
- 0810- Collect SB-48-0.5 soil sample (0'-0.5' bgs)
- 0815- Collect SB-48-2.0 " " (0.5'-2.0' bgs) } See Soil sample collection form
- 0818- " SB-48-4.0 " " (2.0'-4.0' bgs)
- 0820- Install DEPMW-2S to 12 ft Bgs with DPT Rig. See Well installation form
- 0845- Make donut pad + install 8" bolt-down manway/handway
- 0850- Set up at VP-2/SB-4 for installation of DEPMW-3S shallow well. 0.75" prepack screen well to 12' bgs. See Installation Log
- 0900- Collect QA/QC sample EQB-Screenpoint 1 from decontaminated ^{DPT (SW)} well screen point
- 0920- DEPMW-3S installed. Cut + pour 2'x2' concrete pad with 8" bolt-down manhole
- 0930- Decon drill tooling
- 0955- Set up rig on DEPMW-4S at SB-49 location (See Map)
- 1003- Collect soil sample SB-49-0.5
- 1005- " " " SB-49-2.0 } See Soil Sample Collection form
- 1010- " " " SB-49-4.0
- 1012- Install DEPMW-4S to 12 ft bgs. See installation Log
- 1030- Begin developing DEPMW-3S. See installation log for notes.
- 1025 - Collect Field Blank sample FRB-DEPMW-4S
- 1040- DEPMW-4S complete. Install 2'x2' pad + 8" bolt-down manhole
- 1110-1125- Rain
- 1140- Pack equipment
- 1150- Move to AOC-2, SB-40 location
- 1205- Set up on VP-3 location. Hand clear utilities to 5' bgs. Push rods to 20' bgs for vertical profile sampling. Peristaltic Pump + replaced/~~dedicated~~ ^{DPT} hape tubing
- 1235- Collect VP-3-16-20 for PFAS. 4 Gal purged. 910 ntus, 3rd Bottle Collected
- 1255- ^{DPT} collect Field Blank sample FRB-VP-3 during drilling/pumping
- 1325- Collect VP-3-26-30 for PFAS + MS/MSD
- 1430- Collect VP-3-36-40 for PFAS, 3.5 gal. 570 ntus, 3rd bottle collected
- 1525- Collect VP-3-46-50 " " , 3.5 gal, 970 ntus, " " "
- 1530- Remove tooling and begin to install DEPMW-5S adjacent to VP-3 to 12' bgs. See MW Installation Log
- 1600- Finish DEPMW-5S with 2'x2' pad + bolt-down manhole - 8"
- 1620- Pack equipment and Develop DEPMW-5S. See GW installation Log

see next page (SW) 10/13

88°, sunny

Miami Dade College Fire Training Facility; ERIC-7421

10/13/2021

Golder - Scott Neal, Groundwater Protection - Christian + Dave

1640 - Move to DEPMW-6S on west side of campus, ~~SB~~ SW 10/13

1645 - Begin installation of DEPMW-6S, 0.75" 12-ft shallow well. See Well Installation Log

1705 - Finish well with 2' x 2' pad + 8-inch bolt-down manhole

1710 - GWP to staging area to decan equip. Golder stays to develop DEPMW-6S. See well construction log.

1735 - Move to DEPMW-1S

1740 - Begin DEPMW-1S development with peristaltic pump. See Well construction log

1757 - End development. GWP off site

1820 - Dump development water into drums. at staging area

1840 - off site

1905 - Hotel

SW

10/13

84°, sunny

Miami Dade College Fire Training Facility; ERIC-7421
Golden Assoc. - Scott Neal, Groundwater Protection - Christian & Dave

10/14/2021

0630 - Leave hotel

0655 - GWP & Golden on site. Check in with Campus Public Safety office

0710 - Staging Area. Review HASP, SOW, & PFAS SOPs/checkboxlist

0730 - Move to Vertical Profiling point VP-4 located in driving course in AOC-1. Hand clear utilities to 5 ft bgs.

0740 - Push DPT rods to 20 ft bgs. Expose stainless steel slotted screen 16-20 ft bgs. Vertical Profiling sampling done with disposable HDPE tubing & silicon in Peristaltic Pump.

0815 - Collect VP-4-16-20 for PFAS, 900 ntus, 3 gal pumped, 3rd bottle for turbidity

0905 - Collect VP-4-26-30 for PFAS, >1000 ntus, 1 gal pumped, 3rd bottle collected.

* 26'-30' interval intermittently pumped due to clogged screen. Pumping DRY.

1005 - Collect VP-4-36-40 for PFAS, >1000 NTUS, 1.25 gal, 3rd bottle collected. 36'-40' interval was not producing water very well, pumping dry.

1040 - Collect VP-4-46-50 for PFAS, 520 ntus, 4 gal purged. 3rd bottle collected

1050 - Set up adjacent to VP-4 to install DEPMW-7S, 0.75" prepack shallow well to 12' bgs. See well construction log.

1130 - Finish DEPMW-7S with 2'x2' pad and 8" bolt-down manhole

1210 - Develop DEPMW-7S with peristaltic pump. See well construction log for details.

1120 - Decon drill tooling in decon pit

1150 - Collect Equipment Blank sample EQB-Screenpoint 2 from decontaminated stainless steel DPT gw sampling screenpoint for PFAS

1125-1145 - Develop DEPMW-4S. See Well Construction Log

1225 - Move to AOC-3 (former Hangar) & setup on VP-5 at SB-22

1235 - Push DPT rods to 20' bgs and begin vertical groundwater profiling activities

1310 - Collect VP-5-16-20 for PFAS, 920 ntus, 3 gal purged, 3rd bottle collected

1313 - Collect duplicate sample DUP-VP-5-16-20 for PFAS

1355 - Collect VP-5-26-30 for PFAS, 670 ntus, 3 gal purged, 3rd bottle collected

1455 - Collect VP-5-36-40 for PFAS, 820 ntus, 3 gal purged, " " "

1540 - Collect VP-5-46-50 for PFAS, >1000 ntus, 3.5 gal purged, " " "

1545 - Remove tooling and set up rig adjacent to VP-5 to install shallow 0.75" shallow well DEPMW-8S. See well installation log for details. Refusal @ 51' bgs

1620 - DEPMW-8S completed with 2'x2' concrete pad & 8" bolt-down manhole. Pack rig & equip

1625 - Begin DEPMW-8S development - See GW monitoring well construction log

1655 - Move to east side of campus along NW 27th Ave at NW 113th St. to install 0.75" prepack shallow well DEPMW-9S to 12' bgs. See Monitoring Well Installation Log.

1730 - Finish DEPMW-9S with 2'x2' concrete pad & 8" bolt-down manhole

next page

(5)

84° sunny

Miami Dade College Fire Training Facility, ERIC-7421
Golde-SNeal, GWP-Christian + Dave

10/14/2021

- 1730- Begin DEPMW-9S development. See well installation log
- 1735- GWP to staging area to unload equip. + put soil/water IDW into drums
- 1810- Move to staging area + put development water into drums
- 1815- GWP off site
- 1825- Golde off site
- 1850- Hotel. off job.

(S)

10/14

84° Sunny

Miami Dade College Fire Training Facility; ERIC-7421
Golder-Scott Neal, Groundwater Protection - Christian + Dave

10/15/2021

0635 - Check out of hotel

0705 - On site, GWP on site. Check in with Campus Public Safety

0720 - AOC-1 Staging Area. Review PFAS SOPs, SOW, + HASP

0735 - Use drill rig to core through asphalt at resample location SB-1 and new soil borings SB-50, SB-51, SB-52, and SB-53. See Soil Sample collection Form for lithologies + Sample times.

0900 - Clean staging area and pack equipment. Label 10W-Soil + 10W-Water 55-gal drums

1020 - Move to DEPMW-105 location in NW corner of County Fire Station at the SE intersection of NW 119th St + NW 32nd Ave. at SB-27.

1030 - Pea gravel encountered at 4 ft bgs. Move location of well ~15' NE of SB-27. Hand-clear utilities to 5 ft bgs. and install DEPMW-105 to 12' bgs. See Monitoring well construction Log for info.

⊛* - Could not develop ~~DEPMW-25~~ DEPMW-25 due to fire training activities in area on 10/14 + 10/15

1050 - Develop DEPMW-105 with peristaltic pump. See Well construction log.

1110 - Development complete. Finish well with 2'x2' pad + 8" bolt-down manhole

1130 - Move to DEPMW-115 installation location in the center of campus off the SW corner of Building 5

1145 - Hand Clear utilities to 5 ft bgs + install 0.75" 12' bgs shallow well. See well installation log for info.

1220-1240 - Develop DEPMW-115. See Monitoring Well Installation Log.

1245 - Finish well with 2'x2' concrete pad + 8" bolt-down manhole

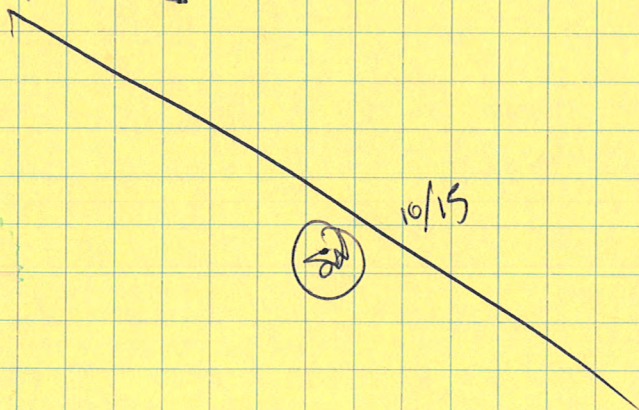
1325 - To staging area to put final development water + soil into drums. Final clean of equip. Decan water into drums. Breakdown decan pit. Final clean of staging area.

1405 - All off site

* - Final Drums on site: 1 Soil, 6 water (one 1/4 full)

2040 - office. Unpack. Ice coolers.

2110 - off job



Daily PFAS Sampling Checklist

Date: 10/11/2021

Site Name: Miami Dade College - Fire Training

Weather (temperature/precipitation): 98°, cloudy - Rain

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX[®])
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek[®] suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon[™]
- No materials containing Teflon[™], Viton[™], or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc[®] bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie[®] products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It[®] products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox[®] or Liquinox[®] used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

No sampling. Decon Pit Setup + Exploratory lithological soil boring
~~Duplicate Sample taken at VP-2-46 SO (Si) 10/13~~

Field Team Leader Name (Print): Scott Neal-Golder

Field Team Leader Signature: 

Date/Time: 10/11/21 1230

Daily PFAS Sampling Checklist

Date: 10/12/20

Site Name: Miami Dade College - Fire Training Facility

Weather (temperature/precipitation): 85°, sunny

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX[®])
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek[®] suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon[™]
- No materials containing Teflon[™], Viton[™], or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc[®] bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie[®] products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It[®] products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox[®] or Liquinox[®] used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

AOC-4 Sampling, AOC-2 Sampling

Duplicate Sample taken at VP-2-46-50

Field Team Leader Name (Print): Scott Neal - Golder

Field Team Leader Signature: Scott Neal

Date/Time: 10/12/2021 0745

Daily PFAS Sampling Checklist

Date: 10/13/2021

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 85° sunny

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX[®])
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek[®] suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon[™]
- No materials containing Teflon[™], Viton[™], or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc[®] bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie[®] products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It[®] products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox[®] or Liquinox[®] used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

MW installation

Equip Blank taken from DPT screen point

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 10/13/2021 0800

Daily PFAS Sampling Checklist

Date: 10/14/2021

Site Name: Miami Dade College - Fire Training Facility

Weather (temperature/precipitation): 86°, Sunny

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX[®])
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek[®] suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon[™]
- No materials containing Teflon[™], Viton[™], or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc[®] bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie[®] products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It[®] products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox[®] or Liquinox[®] used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

N/A

Deon in deon pit w/ water trucked in from Orlando, FL

Field Team Leader Name (Print): Scott Neal, Golder

Field Team Leader Signature: Scott Neal

Date/Time: 10/14/2021 0810

Daily PFAS Sampling Checklist

Date: 10 / 15 / 2021

Site Name: Miami Dade College Fire Training Facility; ERIC-7421

Weather (temperature/precipitation): 84°, Sunny / Cloudy

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Decon water from approved source trucked in from Orlando, FL

Field Team Leader Name (Print): Scott Neal, Golder Assoc.

Field Team Leader Signature: Scott Neal

Date/Time: 10/15/2021 0705

MONITORING WELL INSTALLATION LOG

JOB NO. 21451173	PROJECT Miami Dade College FTF - PFAS - ERIC_7404	WELL NO. <u>DEPMW-1D</u>	SHEET 1 OF 1
GA INSP. Scott Neal - Golder	DRILLING METHOD Sonic	GROUND ELEV. ---	WATER DEPTH 6.3
WEATHER East 10 mph, Cloudy	DRILLING COMPANY Preferred Drilling Solutions	COLLAR ELEV. grade	DATE/TIME 1740 / 2/1/22
TEMP. 75°	DRILL RIG Terrasonic 150 Compact Crawler	DRILLER Tim Moyer	STARTED 1400 2/1/2022 COMPLETED 1730 / 2/1/22

MATERIALS INVENTORY

WELL CASING 2 in. dia. 69.5 i.f.	WELL SCREEN 2 in. dia. 10.0 i.f.	BENTONITE SEAL na
CASING TYPE Schedule-40 PVC	SCREEN TYPE Schedule-40 PVC	INSTALLATION METHOD na
JOINT TYPE Threaded	SLOT SIZE 0.010-inch	FILTER PACK QTY 325 lb
GROUT QUANTITY ~90 gallons / 6 bags / 575 lbs	CENTRALIZERS na	FILTER PACK TYPE 20/30 silica sand
GROUT TYPE Portland Type-2 cement via tremmie with ~5 lbs bentonite	DRILLING MUD TYPE na	INSTALLATION METHOD Tremmie/gravity

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES
	GROUND SURFACE		8-inch bolt-down manhole
0.0	See EXP-Boring-2 lithology log	2' x 2' pad with 8" manhole	2' x 2' concrete pad at grade
5		6" borehole	expandable gasket well cap
10		2" schedule-40 PVC riser from 0'-69.5' bgs	25 lbs 30/65 fine sand seal
15		Portland Type-II grout 66.5' bgs to grade	- Borehole was 100' bgs. Backfilled with Bentonite pellets to 86' bgs then 4' 20/30 sand. Pressurized bentonite with water from sonic rig. ~3.5' sand blew into formation (expected). Backfilled from 85 to 80' bgs with 20/30 sand and constructed well on top of sand.
20			Approximately 800 gallons used between boring and well installations
25			
30			
35			
40			
45			
50			
55			
60			
65			
70		30/65 sand 67.5'-66.5' bgs	
75		325 lbs 20/30 sand 79.5'-67.5' bgs	
80		0.010" slotted screen 69.5'-79.5' bgs	
85		well plug	
90		~200 lbs sand	
95		20/30 sand 85'-79.5' bgs	
100		Hydrated Bentonite pellets 100'-85' bgs	

WELL DEVELOPMENT NOTES

Waited 24 hrs for grout to cure

2/3/22 1630 - Develop with 1/2" tubing & peristaltic pump into 55-gal drums.

5-gal: 8.68 ntus, clear, no odor

55-gal: 6.97 ntus, " "

100-gal: 3.21 ntus, " "

150-gal: 2.91 ntus, " "

end at 1840, 150 gal purged (3 drums mostly full)

MONITORING WELL INSTALLATION LOG

JOB NO. 21451173	PROJECT Miami Dade College FTF - PFAS - ERIC_7404	WELL NO. DEPMW-2D	SHEET 1 OF 1
GA INSP. Scott Neal - Golder	DRILLING METHOD Sonic	GROUND ELEV. ---	WATER DEPTH 6.75
WEATHER Partly Cloudy, Calm	DRILLING COMPANY Preferred Drilling Solutions	COLLAR ELEV. grade	DATE/TIME 2/2/22/1450
TEMP. 75°F	DRILL RIG Terrasonic 150 Compact Crawler	DRILLER Tim Meyer (SD)	STARTED 0930 2/2/22
			COMPLETED 1230 2/2/22

MATERIALS INVENTORY

WELL CASING 2 in. dia. 70 i.f.	WELL SCREEN 2 in. dia. 10.0 i.f.	BENTONITE SEAL na
CASING TYPE Schedule-40 PVC	SCREEN TYPE Schedule-40 PVC	INSTALLATION METHOD na
JOINT TYPE Threaded	SLOT SIZE 0.010-inch	FILTER PACK QTY 450 lbs (SD) 350 lbs
GROUT QUANTITY ~100 gal / ~575 lbs dry	CENTRALIZERS na	FILTER PACK TYPE 20/30 silica sand
GROUT TYPE Portland Type-2 cement via tremmie with ~5 lbs bentonite	DRILLING MUD TYPE na	INSTALLATION METHOD Tremmie/gravity

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES
	GROUND SURFACE		8-inch bolt-down manhole 2' x 2' concrete pad at grade expandable gasket well cap Approximately 25 lbs 30/65 sand used as fine sand seal above 20/30 sand
0.0	↑ N/A		
5			
10			Approx. 600 gallons used for drilling
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			
80			
		2" diameter schedule-40 PVC Riser grade - 70 ft bgs 30/65 sand 67-68 ft bgs 2" diameter 0.010" slotted schedule-40 screen 70-80 ft bgs 20/30 sand 68-80 ft bgs	WELL DEVELOPMENT NOTES Developed on 2/7 by Preferred Drilling Solutions. ~105 gallons pumped w/ peristaltic pump and 1/2 hdpe tubing. Water clear.

MONITORING WELL INSTALLATION LOG

JOB NO. <u>21451173</u>	PROJECT <u>Miami Dade College FTF - PFAS - ERIC_7404</u>	WELL NO. <u>DEPMW-30</u>	SHEET <u>1</u> OF <u>1</u>
GA INSP. <u>Scott Neal - Golder</u>	DRILLING METHOD <u>Sonic</u>	GROUND ELEV. <u>---</u>	WATER DEPTH <u>7.0</u>
WEATHER <u>77°, E 10mph</u>	DRILLING COMPANY <u>Preferred Drilling Solutions</u>	COLLAR ELEV. <u>grade</u>	DATE/TIME <u>2/2/22 / 1705</u>
TEMP. <u>77°, some clouds</u>	DRILL RIG <u>Terrasonic 150 Compact Crawler</u>	DRILLER <u>Tim Poyer</u>	STARTED <u>1420 / 2/2/22</u>
			COMPLETED <u>1700 / 2/2/22</u>

MATERIALS INVENTORY

WELL CASING <u>2</u> in. dia. <u>70</u> i.f.	WELL SCREEN <u>2</u> in. dia. <u>10.0</u> i.f.	BENTONITE SEAL <u>na</u>
CASING TYPE <u>Schedule-40 PVC</u>	SCREEN TYPE <u>Schedule-40 PVC</u>	INSTALLATION METHOD <u>na</u>
JOINT TYPE <u>Threaded</u>	SLOT SIZE <u>0.010-inch</u>	FILTER PACK QTY <u>350 lbs</u>
GROUT QUANTITY <u>100 gal / ~575 lbs dry</u>	CENTRALIZERS <u>na</u>	FILTER PACK TYPE <u>20/30 silica sand</u>
GROUT TYPE <u>Portland Type-2 cement via tremmie</u>	DRILLING MUD TYPE <u>na</u>	INSTALLATION METHOD <u>Tremmie/gravity</u>
<u>~5 lbs bentonite mixed in</u>		

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES
	GROUND SURFACE		8-inch bolt-down manhole 2' x 2' concrete pad at grade - expandable gasket well cap - 25 lbs 30/65 sand
0.0	T NA		
5			
10			
15		Portland Type II grout cement grade - 67 ft bgs	
20			
25			
30			
35			
40			
45		2" schedule-40 PVC Riser 0 - 70 ft bgs	
50			
55			
60		30/65 sand 67 - 68 ft bgs	
65			
70		2" dia. 0.010" screen 70 - 80 ft bgs	
75		20/30 sand 68 - 80 ft bgs	
80			
			WELL DEVELOPMENT NOTES 2/5/2022 - 1300 Initial: >1000 ntus, slight brown tint, no odor 40 gal - 28.1 ntus, clear Developed with Peristaltic Pump and 1/2" tubing End: 1420, 5.97 ntus, clear ~110 gal total

MONITORING WELL INSTALLATION LOG

JOB NO. 21451173	PROJECT Miami Dade College FTF - PFAS - ERIC_7404	WELL NO. <u>DEPMW-4D</u>	SHEET 1 OF 1
GA INSP. Scott Neal - Golder	DRILLING METHOD Sonic	GROUND ELEV. ---	WATER DEPTH <u>6.6 ft</u>
WEATHER <u>5mph, Clear</u>	DRILLING COMPANY Preferred Drilling Solutions	COLLAR ELEV. grade	DATE/TIME <u>2/3/22/1530</u>
TEMP. <u>75°F</u>	DRILL RIG Terrasonic 150 Compact Crawler	DRILLER <u>Tim Poyer Moyer</u>	STARTED <u>1000 / 2/3/22</u> COMPLETED <u>1530 / 2/3/22</u>

MATERIALS INVENTORY

WELL CASING <u>2</u> in. dia. <u>70</u> i.f.	WELL SCREEN <u>2</u> in. dia. <u>10.0</u> i.f.	BENTONITE SEAL <u>na</u>
CASING TYPE <u>Schedule-40 PVC</u>	SCREEN TYPE <u>Schedule-40 PVC</u>	INSTALLATION METHOD <u>na</u>
JOINT TYPE <u>Threaded</u>	SLOT SIZE <u>0.010-inch</u>	FILTER PACK QTY <u>350 lbs</u>
GROUT QUANTITY <u>~100 gal / ~575 lb DRY</u>	CENTRALIZERS <u>na</u>	FILTER PACK TYPE <u>20/30 silica sand</u>
GROUT TYPE <u>Portland Type-2 cement via tremmie</u>	DRILLING MUD TYPE <u>na</u>	INSTALLATION METHOD <u>Tremmie/gravity</u>
<u>5 lbs bentonite added</u>		

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES
	GROUND SURFACE		8-inch bolt-down manhole 2' x 2' concrete pad at grade expandable gasket well cap - 25 lbs 30/65 Sand - 700-16 (50) ~ 700 gal water used drilling
0.0			
5			
10			
15			
20			
25	NA		
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			
80			
			WELL DEVELOPMENT NOTES 2/5/2022 1035 • Develop with Peristaltic Pump and 1/2" tubing • A lot of sand in well during first 40 gal of development • White tint first 40 gal • 55 gal - white tint, 325 ntus • 100 gal - 27.2 ntus, clear end at 1235, 2 draws ~ 110 gal Did not pump dry

MONITORING WELL INSTALLATION LOG

JOB NO. 21451173	PROJECT Miami Dade College FTF - PFAS - ERIC_7404	WELL NO. DEPMW-SD	SHEET 1 OF 1
GA INSP. Scott Neal - Golder	DRILLING METHOD Sonic	GROUND ELEV. ---	WATER DEPTH 6.5'
WEATHER Cloudy, E 5 mph	DRILLING COMPANY Preferred Drilling Solutions	COLLAR ELEV. grade	DATE/TIME 1100 / 2/4/22
TEMP. 75°F	DRILL RIG Terrasonic 150 Compact Crawler	DRILLER Tim Moyer	STARTED 0800 / 2/4/22
			COMPLETED 1115 2/4/22

MATERIALS INVENTORY

WELL CASING 2 in. dia. 69.5 i.f.	WELL SCREEN 2 in. dia. 10.0 i.f.	BENTONITE SEAL na
CASING TYPE Schedule-40 PVC	SCREEN TYPE Schedule-40 PVC	INSTALLATION METHOD na
JOINT TYPE Threaded	SLOT SIZE 0.010-inch	FILTER PACK QTY 350 lbs
GROUT QUANTITY ~105 gal / 575 lb DRY	CENTRALIZERS na	FILTER PACK TYPE 20/30 silica sand
GROUT TYPE Portland Type-2 cement via tremmie ~5 lbs Bentonite mixed w/ grout	DRILLING MUD TYPE na	INSTALLATION METHOD Tremmie/gravity

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES	
	GROUND SURFACE	6-inch borehole, 2-inch well 2'x2' concrete pad w/ 8-inch bolt-down manhole	8-inch bolt-down manhole 2' x 2' concrete pad at grade expandable gasket well cap	
0.0			= 25 lbs 30/65 sand used ~ 620 Gallons PFAS-free water used	
5				
10				
15				
20	N/A			
25				
30				
35				
40				
45				
50				
55				
60				WELL DEVELOPMENT NOTES 2/5/2022 0900-1010 2 Drums pumped ~105 gallons 5 gal - white tint, No odor, 378 ntus 55 gal - clear - 7.85 ntus 100 - gal - clear - 4.16 ntus Did not pump dry Peristaltic pump + 1/2" tubing
65				
70				
75				
80				

MONITORING WELL INSTALLATION LOG

JOB NO. 21451173	PROJECT Miami Dade College FTF - PFAS - ERIC_7404	WELL NO. DEPMW-6D	SHEET 1 OF 1
GA INSP. Scott Neal - Golder	DRILLING METHOD Sonic	GROUND ELEV. ---	WATER DEPTH 8.0
WEATHER Sunny cloudy, E 5 mph	DRILLING COMPANY Preferred Drilling Solutions	COLLAR ELEV. grade	DATE/TIME 1705 / 2/4/22
TEMP. 78° Fahrenheit	DRILL RIG Terrasonic 150 Compact Crawler	DRILLER Tim MOYER	STARTED 1340 / 2/4/22
			COMPLETED 1700 / 2/4/22

MATERIALS INVENTORY

WELL CASING 2 in. dia.	WELL SCREEN 2 in. dia. 10.0 l.f.	BENTONITE SEAL na
CASING TYPE Schedule-40 PVC	SCREEN TYPE Schedule-40 PVC	INSTALLATION METHOD na
JOINT TYPE Threaded	SLOT SIZE 0.010-inch	FILTER PACK QTY 350 lbs
GROUT QUANTITY 575 lbs dry, ~105 gal mixed	CENTRALIZERS na	FILTER PACK TYPE 20/30 silica sand
GROUT TYPE Portland Type-2 cement via tremmie	DRILLING MUD TYPE na	INSTALLATION METHOD Tremmie/gravity
5 lbs bentonite added		

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES
	GROUND SURFACE	<p>6" borehole, 2" well, 2' x 2' concrete pad, 8" bolt-down manhole, expandable gasket wellcap</p> <p>Portland Type II Grout cement 0 - ft bgs</p> <p>2" Schedule-40 PVC riser 0 - ft bgs</p> <p>30/65 sand 67-68 ft bgs</p> <p>20/30 sand 68-80 ft bgs</p> <p>0.010" slotted screen 70 - 80 ft bgs</p>	<p>8-inch bolt-down manhole</p> <p>2' x 2' concrete pad at grade</p> <p>expandable gasket well cap</p> <p>- 25 lb 30/65 sand</p> <p>~ 600 gal PFAS-free water used during drilling</p>
0.0	N/A		
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			
80			
			<p>WELL DEVELOPMENT NOTES</p> <p>Developed 2/7/2022 by Preferred Drilling Solutions with Peristaltic pump + 1/2 tubing. Did not pump dry & clear water at end of development. ~105 gallons / 2 55-gal drums</p>



SUBJECT Miami Dade College - Fire Training Facility; ERIC_7421		
Job No. Miami, FL	Made by Scott Neal-Golder	Date 1/31/22
Ref. Preferred Drilling Solutions + Golder	Checked	Sheet 1 of 1
	Reviewed	

0830- Pack equipment in Enterprise Rental RAM 1500 at Golder - Jacksonville, FL office

0900- leave office for Miami

1300- Gas + lunch

1445- On site at Miami Dade College Campus Safety. Preferred Drilling Solutions (Tim, Doug, Ozzie, Lane, Jay) + Terrasonic (Denzel) from Lakeland + Tampa

1500- Check in with Campus Safety + Drive to Staging area at Fire Training Facility

1520- Check in with Driving Course Ranger (Bob) + discuss ingress/egress through Driving Course for the week.

1520- Drillers begin unloading equipment:

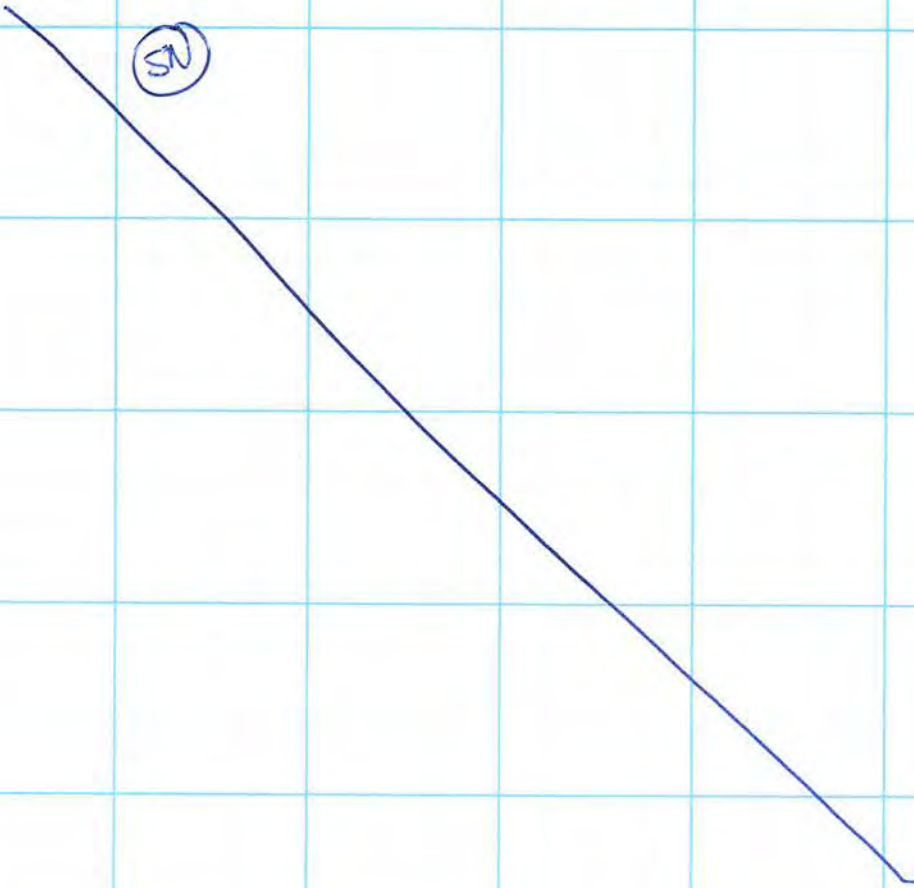
- Box Truck with well materials
- Tractor Trailer with Terrasonic TSI-150CC sonic drill rig
- Flatbed with Bobcat T740 skid-steer + sonic drill tooling
- 2 personal Trucks
- Flatbed with 9 265-gal Totes of PFAS-free drilling water

1600- Unload + equipment + construct decon pit out of 2x6's + visqueen

1725- Equipment staged + ready for decon. All off site.

1800- Hotel

(SN)





SUBJECT Miami Dade College Fire Training Facility; ERIC-7421		
Job No. 21451173	Made by Scott Neal -	Date 2/1/2022
Ref. Preferred Drilling Solutions	Checked - Golder	Sheet 1 of 1
	Reviewed	

Miami, FL

0650 - Leave Hotel in Miami, FL				
0715 - On site at Miami Dade College (MDC) public Safety.				
0720 - Preferred Drilling Solutions (PDS) on site - Tim, Lane, Jay, Denzil, + Ozzy. Check in with Campus Safety				
0735 - MOB to staging Area. Review HASP, SOW, + PFAS SOPs				
0750 - Decon sonic drill tooling + Set up Terrasonic TSE-150CC rig on EXP. Boring-2 location next to DMW001 location in AOC-1				
0840 - Collect Equipment Blank QA/QC sample EQB-sonic-1 from decontaminated sonic core bit				
0845 - Break through Asphalt + Advance soil boring to 100' bgs or refusal. See Boring Log. 4 3/4" soil core sleeves				
1230 - End Boring. Call Bob Wojcik to discuss placement of well screen intervals: <ul style="list-style-type: none"> - No obvious confining unit - Possible semi-confining unit at ~60'-63' bgs - Known presence of PFAS to at least 50' bgs based on vertical gw profiling lab data 				
1250 - Call Jeff Newton (FDEP SIS) with boring results and discuss 70'-80' screen interval. Agree on 70'-80' for all Deep Wells				
1235 - 1315 - PDS off site for lunch				
1325 - Discuss well construction with FDEP + PDS: <ul style="list-style-type: none"> - Will use 100' borehole (EXP Boring-2) to install deep well - Will avoid issue of grout/bentonite flowing into formation, esp. in vuggy limestone/voids - Will avoid issue of grout flowing from abandoned borehole into well screens - To bring to 80' bgs, fill from 100'-86' bgs with Pelletized Bentonite then ~4 ft of 20/30 sand. Pressurized with water thru drill pipe. Added 20/30 sand to 80' bgs, then install well 				
1400 - Begin installing DEPMW-1D at EXP Boring-2 location. See Monitoring Well installation Log				
1600 - Well grouted to surface. Clean work area, move rig. Decon Sonic tooling				
1635 - Doug (PDS) on site with 8 265-gal totes of PFAS free drilling water and the sonic rig tooling rack				
1725 - 2' x 2' concrete pad + 8" bolt-down manhole installed at DEPMW-1D				
1845 - Empty totes loaded onto truck + Doug off site. All off site.				
1840 - Hotel				

21451173



SUBJECT MDL-FTF, ERIC-7421 / EXP-Boring-2		
Job No. Terrasonic TSI-ISOCC sonic Ref: Drill Rig	Made by Scott Neal - Checked Golder Reviewed Driller-Tim	Date 2/1/2022 Sheet 1 of 1

DEPTH (ft)	Lithology		
EXP. Boring - 2		4 3/4" soil core tooling w/ 6" outer casing	
0-6"	Asphalt + LS road base		
1-3'	Light gray FS, M, N.O.		
3-5'	Tan/light Brn FS, M, N.O.	* 5.0'	
5-10	" " " FS, Sat, N.O.		
10-15	gray/Light tan FS, Sat, N.O.		
15-20	Tan/gray FS, Sat, N.O.		
20-22	Tan FS, Sat, N.O.		
22-25	Light gray fine to med Sand, Sat, N.O.		
25-28	Light gray med-coarse Sand, Sat, N.O.		
28-30	Light gray/white med Sand, Sat, N.O.		
30-32.5	" " Fine → Med Sand, Sat, N.O.		
32.5-33.5	Tan sandy silt + ~5% clay, Sat, N.O.		
33.5-36	Tan FS, sat Sat, N.O.		
36-39	Light gray FS w/ silt, Sat, N.O.		
39-40	Tan/gray Chalky clay with limestone gravel and larger		
40-50	light Brown porous fossiliferous limestone, Sat, N.O.	"cut" voids	
50-53	Brown porous limestone, Sat, N.O.		
53-56-	Void white drilling		
56-58	gray + Brown med-coarse sand, (80%) and LS lenses, Sat, N.O.		
58-60	Tan fossiliferous LS w/ 10% porosity, Sat (5-10% porosity)		
60-61	Brown fossiliferous LS w/ >10% porosity, Sat		
61-65	Light tan fine → med grained LS, <5% porosity, Sat		
65-69 -	Med sand → gravel with <10% LS, Sat, N.O.		
69-70	Light tan fossiliferous LS w/ ~10% porosity, Sat		
70-73	Light tan silty coarse sand + ~30% LS ~10% porosity		
73-77	Light tan fine/med grained LS (<5% porosity) + coarse sand (30%)		
77-79	Coarse Sand Tan, Sat, N.O.		
79-80	Light tan fine grained LS, N.O., <5% porosity		
80-83	Med grained Tan Sand, Sat, sl. organic odor		
83-89	interbedded tan fine/med sand (80%) + 1"-2" thick LS lenses (20%)		
89-90	Coarse sand/gravel + fossiliferous LS gravel		
90-96	Coarse Tan Sand, Sat, N.O.		
96-98.5	Tan gravel, SAT, N.O.		
98.5-100	Tan fine/med grained LS, <5% porosity		
END Boring @ 100' logs			
* - All soil drummed for disposal			

* Void 53'-56'



SUBJECT <u>Miami Dade College Fire Training Facility - ERIC-7421</u>		
Job No. <u>21451173</u>	Made by <u>Scott Neal - Golder</u>	Date <u>2/2/2022</u>
Sub: <u>Preferred Drilling Solutions</u>	Checked <u>weather:</u>	Sheet <u>1</u> of <u>1</u>
Ref:	Reviewed <u>75° clear, <5mph</u>	

75°, Partly Cloudy, Calm

0650 - leave Hotel

0715 - On site. Preferred Drilling Solutions (PDS) on site - Tim, Ozzy, Denzil, Lane, + Jay. Check-in with Miami Dade college (MDC) Campus Security.

0730 - MOB to MDC Fire College staging area. Review HASP, SOW, + PFAS SOPs.

0745 - Tooling was decontaminated 2/1, but observed residue inside tooling. Decon tooling with steam cleaner, brush, + liquorox again.

0815 - Pack/load rig + equipment and move to MW-3 location in Southern portion of AOC-1 to set up on DEPMW-2D. Will drill from north side of fence to avoid working in Road.

0830 - Collect equipment blank sample EGB-Sonic-2 for PFAS analysis from Sonic core bit

0900 - Hand clear utilities at DEPMW-2D. Drum Soil.

0930 - All equipment set up on DEPMW-2D. Began drilling 6-inch tooling to 80 ft bgs. See Well Construction Log.

1045 - Constructing ~~with~~ well

1130 - Begin mixing grout + grouting well

1230 - 1315 - Lunch

1315 - Decon tooling + set equipment at DEPMW-7S location for installation of DEPMW-3D

1345 - Hand Clear to 5 ft bgs at DEPMW-3D

1420 - Begin advancing 6-inch tooling to 80 ft bgs. See Well Construction Log.

1605 - Begin grouting well

1710 - Grouting complete. Move equipment to staging area

1815 - Equipment/site secured. All off site.

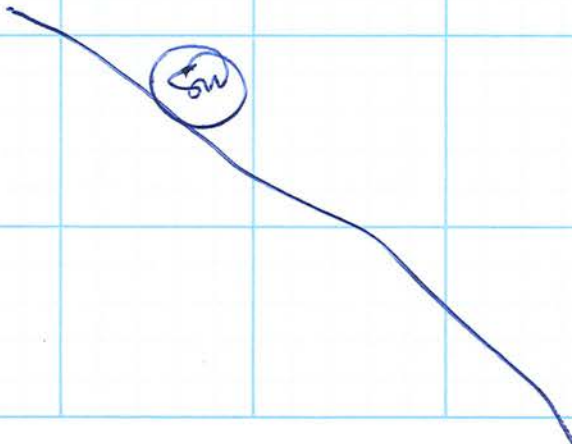
1835 - Hotel

 S 2/2



SUBJECT Miami Dade College - Fire Training Facility; ERIC-7421		
Job No. 21451173	Made by Scott Neal -	Date 2/3/2022
Subcontractors: Ref: Preferred Drilling Solutions	Checked Golder Reviewed weather: 75°, clear, <5 mph	Sheet 1 of 1

- 0700 - Leave hotel
- 0715 - At MDC Public Safety
- 0730 - Preferred Drilling Solution (Tim, Lane, Jay, Ozzy, Deniz) on site. Check in with Security.
- 0750 - At Staging area at Fire Training Facility. Review Health + Safety, SOW, + PFAS SOPs
- 0805 - Decontaminate Drill tooling + load equipment onto trucks
- 0815 - Construction ongoing at AOC-3 (Former Hangar). Speak to construction super and learn area near proposed deep well and existing DEPMW-05 will likely be covered by a building footprint in future construction. Call and confirm with MDC personnel (Raul Alfonso - Campus Facilities Planner)
- 0930 - Drillers move equipment to AOC-4 / DEPMW-15 location
- 0930 - Call Jeff Newton + discuss moving deep well location in AOC-3 south and out of future construction zones. Jeff Approves. GPR survey of area scheduled for 2/4 AM.
- 1000 - Hand clear utilities at DEPMW-4D location - approximately ^{15ft} ~~8ft~~ Northwest of DEPMW-15 in AOC-4
- 1015 - Begin pushing 6" tooling to 80 ft bgs at DEPMW-4D. See well Construction Log
- 1030 - Construction taking place to the East of AOC-2 (Fire Training Prop Field + Burn Building). Send photos to Jeff / FDEP. Should not affect drilling.
- 1130 - Doug (PDS) on site with 10 265 gallon totes of PFAS-free drilling water
- 1140 - 80' in DEPMW-4D. Begin constructing well
- 1250 - Lunch. Doug off site.
- 1330 - Begin mixing grout and grouting / finishing well
- 1515 - Pack equipment. 2x2 pad installed.
- 1600 - Staging area. Decon Drill tooling.
- 1630 - Begin developing DEPMW-1D with 1/2" tubing and peristaltic pump. See Well Installation Log
- 1655 - Move equipment / rig to AOC-2
- 1815 - PDS off site
- 1900 - Golder off site
- 1915 - Hotel





SUBJECT <u>Miami Dade College - Fire Training Facility; ERIC-7421</u>		
Job No. Subcontractors: • Preferred Drilling Solutions (PDS) • GeoTek LLC	Made by <u>Scott Neal-Golder</u> Checked Reviewed <u>21451173</u>	Date <u>2/14/2022</u> Sheet <u>1</u> of <u>1</u>

Weather: 75°, cloudy, E 5mph
 (EM)

0700 - Leave hotel

0715 - On Site at Miami Dade College Campus safety. Preferred Drilling Solutions on site:
 For (S) Tim, Ozzie, Denzil, Lane, Jaye. Check-in with Campus Safety

0730 - Get Box truck/well materials from staging area + MOB to AOC-2.

0750 - Set up on DEPMW-5D location ~8 ft of DEPMW-SS. Utilities hand cleared to 5 ft bgs on 2/3/22.

0800 - Begin pushing 6" tooling to 80 ft bgs

0805 - Meet GeoTek LLC at Campus Safety (Bud Connor)

0815 - GeoTek + Golder to AOC-3 (former Hangar). Review HASP + ROW

0825 - GeoTek uses EM Wand + GPR Sled to scan subsurface for utilities in grassy area between parking lot and sidewalk ~120 feet south of DEPMW-8S and proposed deep well location to move deep well out of future construction zone

0900 - Area cleared in AOC-3. GeoTek off site

0930 - 80 ft bgs at DEPMW-5D. Begin constructing well. See Well Construction Log

0955 - Grout DEPMW-5D

1045 - Begin loading rig + equipment on to trailers. Build 2'x2' pad w/ 8" manhole

1115 - Take tooling to Staging area to decon

1215 - Move Equipment to AOC-3 and previously GPR-cleared DEPMW-6D location. Set up rig, pipe rack, + water totes on well location

1245 - 1340 - lunch.

1340 - Hand clear utilities to 5' bgs. Lane (PDS) off site

1345 - Begin drilling to 80' bgs at DEPMW-6D. See Well Installation Log.

1455 - Begin constructing well

1540 - Grout well + construct pad

1620 - Pack equipment. Rig to stay at well overnight.

1710 - Ozzie + Denzil off site

1730 - Drop box truck at staging area. Clean + Secure staging area

1745 - All off site

1800 - Hotel

(S) 2/14 1400 - Collect Field Reagent Blank FRB-Sonic-6D near drill rig

(S)



SUBJECT Miami Dade College Fire Training Facility; ERIC-7421

Job No: Subcontractors
Preferred Drilling
Ref: Solutions (PDS)

Made by Scott Neal -golder
Checked
Reviewed

Date 2/5/2022

Sheet 1 of 1

Weather: 76°, cloudy,

0730: Check out of hotel

0745 - On site

0755 - PDS on site (Ozzie, Jay, Tim, Torry). Check in with Security. Review HASP + SOW.

0805 - At DEPMW-6D. Pack equipment + Rig. Torry, Ozzie, + Golder to DEPMW-5D (AOC-2). Jay + Tim Pack rig + clean staging area.

0900 - Develop DEPMW-5D. See Well Installation Log. End 1018

1035 - 1235 - Develop DEPMW-4D. See Well Installation Log.

1200 - Tim + Jay off site with Drill Rig + Box truck

1245 - Drop off 4 drums at staging area

1300 - Begin developing DEPMW-3D (AOC-1). See Well Installation Log

1330 - label all drums staged in SW corner of FTF in AOC-1. 15 water, 4 soil (after all development complete)

1420 - End DEPMW-3D development. Stage drums. PDS will develop wells DEPMW-2D + DEPMW-6D on Monday 2/7 and take Drill Rig off site

1445 - All off site

2005 - Golder office, Jacksonville. Unpack. off job

(SW) 2/7
1337

*Drums: 15 water, 4 soil

(SW) 2/5

(SW) 2/7

Ozzie (Preferred Drilling Solutions) develops ~105 gal, 2 55-gal drums from DEPMW-6D + DEPMW-2D.
Drill Rig Taken off site + drums staged.

Daily PFAS Sampling Checklist

Date: 1/31/2022

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 74°, 5mph N wind, cloudy

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container.

Notes:

Unload equip + setup decon pit

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 1/31/22 1540

Daily PFAS Sampling Checklist

Date: 2/1/2022

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 70°, cloudy

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): Scott Neal / Golden

Field Team Leader Signature: Scott Neal

Date/Time: 2/1/2022 0740

Daily PFAS Sampling Checklist

Date: 2/2/2022

Site Name: Miami Dade College - Fire Training Facility

Weather (temperature/precipitation): 75°, Partly Cloudy, 5-10 mph

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 2/2/2022 / 0745

Daily PFAS Sampling Checklist

Date: 2/3/2022

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 75°, clear, <5 mph

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 2/3/2022 // 0810

Daily PFAS Sampling Checklist

Date: 2/4/2022

Site Name: Miami Dade College Fire Training Facility; ERIC-7421

Weather (temperature/precipitation): 0730 (S) 73°, Partly Cloudy, ~Sunsh

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Decon tooling b/w wells

Field Team Leader Name (Print): Scott Neal - Golden

Field Team Leader Signature: Scott Neal

Date/Time: 2/4/22 0730

Daily PFAS Sampling Checklist

Date: 2/5/2022

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 75°, cloudy

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Development w/ peristaltic pump + hdpe tubing. Water drummed

Field Team Leader Name (Print): Scott Neal / Golder

Field Team Leader Signature: Scott Neal

Date/Time: 0800 / 2/15/22

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421	SITE LOCATION: Miami, FL
WELL NO: <u>MW-2-E</u>	SAMPLE ID: <u>MW-2-E</u>
DATE: <u>3 / 1 / 2022</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>5</u> feet to <u>15</u> feet	STATIC DEPTH TO WATER (feet): <u>6.35</u>	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (<u>15</u> feet - <u>6.35</u> feet) X <u>0.16</u> gallons/foot = <u>1.39</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>7.5</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>7.5</u>	PURGING INITIATED AT: <u>1148</u>	PURGING ENDED AT: <u>1202</u>	TOTAL VOLUME PURGED (gallons): <u>2.66</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
<u>1158</u>	<u>1.9</u>	<u>1.9</u>	<u>0.19</u>	<u>6.70</u>	<u>6.90</u>	<u>23.3</u>	<u>193.1</u>	<u>0.11 / 1.3</u>	<u>2.04</u>	<u>2.3</u>	<u>colorless/none</u>
<u>1200</u>	<u>0.38</u>	<u>2.28</u>	<u>0.19</u>	<u>6.70</u>	<u>6.87</u>	<u>23.3</u>	<u>193.5</u>	<u>0.12 / 1.4</u>	<u>1.68</u>	<u>2.5</u>	<u>" "</u>
<u>1202</u>	<u>0.38</u>	<u>2.66</u>	<u>0.19</u>	<u>6.70</u>	<u>6.86</u>	<u>23.3</u>	<u>193.5</u>	<u>0.11 / 1.3</u>	<u>1.63</u>	<u>2.3</u>	<u>" "</u>
								/			
								/			
								/			
								/			
								/			
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								/			
								/			
								/			
								/			
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>1203</u>		SAMPLING ENDED AT: <u>1206</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>7.5</u>				TUBING MATERIAL CODE: <u>HDPE</u>				FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) FILTER SIZE: <u> </u> μm		Filtration Equipment Type: <u> </u>	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N) TUBING Y <input checked="" type="checkbox"/> (N) (replaced)						DUPLICATE: Y <input checked="" type="checkbox"/> (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-1E</u>	<u>2</u>	<u>HDPE</u>	<u>125 mL</u>	<u> </u>	<u> </u>	<u> </u>	<u>*</u>	<u>PFAS/8321B</u>	<u>APP</u>	<u><500</u>	
							*				
							*				
							*				
							*				
REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.											
<u>Roots in well, DTW may not be accurate EB-PP-1 collected here @ 1213</u>											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 "J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421	SITE LOCATION: Miami, FL
WELL NO: MW-2	SAMPLE ID: MW-2
DATE: 3 / 1 / 2022	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 15 feet	STATIC DEPTH TO WATER (feet): 6.04	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (15 feet - 6.04 feet) X 0.16 gallons/foot = 1.44 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0812	PURGING ENDED AT: 0831	TOTAL VOLUME PURGED (gallons): 2.56							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0827	2.0	2.0	0.14	6.13	7.04	25.4	338.3	0.58/7.0	2.86	70.7	CLEAR/NO
0829	0.28	2.28	0.14	6.13	7.05	25.4	339.2	0.38/4.6	1.66	69.3	" "
0831	0.28	2.56	0.14	6.13	7.05	25.4	339.3	0.43/5.4	1.52	68.6	" "
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 0832		SAMPLING ENDED AT: 0835	
PUMP OR TUBING DEPTH IN WELL (feet): 7.5				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: -- μm			
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> N (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> N					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-2	2	HDPE	125 mL	--	--	*	PFAS/8321B	APP	<500		
						*					
						*					
						*					
						*					

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
 J - Calibrations or calibration verifications did not meet calibration acceptance criteria for 200 μs/cm standard.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 "J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC_7421	SITE LOCATION: Miami, FL
WELL NO: <i>mw-3</i>	SAMPLE ID: <i>mw-3</i>
DATE: <i>3/2/2022</i>	

PURGING DATA

WELL DIAMETER (inches): <i>2</i>	TUBING DIAMETER (inches): <i>0.25</i>	WELL SCREEN INTERVAL DEPTH: <i>5</i> feet to <i>15</i> feet	STATIC DEPTH TO WATER (feet): <i>6.63</i>	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (<i>15</i> feet - <i>6.63</i> feet) X <i>0.16</i> gallons/foot = <i>1.34</i> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <i>7.5</i>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>7.5</i>	PURGING INITIATED AT: <i>0921</i>	PURGING ENDED AT: <i>0935</i>	TOTAL VOLUME PURGED (gallons): <i>2.24</i>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
<i>0931</i>	<i>1.6</i>	<i>1.6</i>	<i>0.16</i>	<i>6.75</i>	<i>6.96</i>	<i>25.5</i>	<i>440.5</i>	<i>0.17 / 2.1</i>	<i>10.9</i>	<i>-7.8</i>	<i>colorless/none</i>
<i>0933</i>	<i>0.32</i>	<i>1.92</i>	<i>0.16</i>	<i>6.75</i>	<i>6.95</i>	<i>25.6</i>	<i>440.0</i>	<i>0.10 / 1.2</i>	<i>7.30</i>	<i>-10.1</i>	<i>" "</i>
<i>0935</i>	<i>0.32</i>	<i>2.24</i>	<i>0.16</i>	<i>6.75</i>	<i>6.93</i>	<i>25.6</i>	<i>438.33</i>	<i>0.09 / 1.1</i>	<i>6.40</i>	<i>-10.7</i>	<i>" "</i>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <i>0936</i>		SAMPLING ENDED AT: <i>0939</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>7.5</i>				TUBING MATERIAL CODE:				FIELD-FILTERED: Y <input checked="" type="checkbox"/>		FILTER SIZE: ___ μm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> (replaced)						DUPLICATE: Y <input checked="" type="checkbox"/>					

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<i>mw-3</i>	<i>2</i>	HDPE	125 mL	--	--	*	PFAS/8321B	APP	<500
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
 J - Calibrations or calibration verifications did not meet calibration acceptance criteria for 200 μs/cm standard.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 "J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421		SITE LOCATION: Miami, FL	
WELL NO: DEPMW-15		SAMPLE ID: DEPMW-15	
DATE: 3/2/2022			

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.18	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (2 - 6.18) feet - 6.18 feet X 0.04 gallons/foot = 0.24 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 1344	PURGING ENDED AT: 1353	TOTAL VOLUME PURGED (gallons): 0.90

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1349	0.5	0.5	0.10	6.20	7.13	24.1	448.6	0.54 / 6.4	6.47	-25.4	Clear/pink
1351	0.20	0.70	0.10	6.20	7.16	24.1	449.5	0.46 / 5.4	6.18	-22.2	" "
1353	0.20	0.90	0.10	6.20	7.14	24.1	446.3	0.76 / 9.1	3.93	-20.9	" "

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: 1354		SAMPLING ENDED AT: 1410	
PUMP OR TUBING DEPTH IN WELL (feet): 7.5			TUBING MATERIAL CODE:			FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)		FILTER SIZE: --- µm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N)			TUBING Y <input checked="" type="checkbox"/> (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
DEPMW-15	2	HDPE	125 mL	--	--	*	PFAS/8321B	APP	<500
DEPMW-15	2	AG	1L	--	--	*	PAH	APP	<500
DEPMW-15	4	CG	40mL	HCl	--	*	VOC	APP	100-400

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
J - Calibrations or calibration verifications did not meet calibration acceptance criteria for 200 µs/cm standard.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421	SITE LOCATION: Miami, FL
WELL NO: DEPMW-35	SAMPLE ID: DEPMW-35
DATE: 3 / 2 / 2022	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.23	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (12 feet - 6.23 feet) X 0.04 gallons/foot = 0.24 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 1122	PURGING ENDED AT: 1131	TOTAL VOLUME PURGED (gallons): 0.90

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1127	0.5	0.5	0.10	6.40	6.35	28.5	588	0.16 / 2.1	19.7	22.8	Colorless
1129	0.20	0.70	0.10	6.40	6.31	28.6	590	0.14 / 1.9	3.80	24.9	" "
1131	0.20	0.90	0.10	6.40	6.30	28.6	590.5	0.13 / 1.7	3.69	24.7	" "

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1132	SAMPLING ENDED AT: 1137	1145					
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: 1137 μ m					
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> (replaced)									
DUPLICATE: Y <input checked="" type="checkbox"/>									
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION (including wet ice)						
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-35	2	HDPE	125 mL	--	--	*	PFAS/8321B	APP	<500
DEPMW-35	2	AG	1L	-	-	*	PAH	APP	<500
DEPMW-35	4	CG	40mL	HCl	-	*	VOC	APP	100-400

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
 J - Calibrations or calibration verifications did not meet calibration acceptance criteria for 200 μ s/cm standard.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)
 "J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421		SITE LOCATION: Miami, FL	
WELL NO: <i>DEP MW-45</i>	SAMPLE ID: <i>DEP MW-45</i>	DATE: <i>3 / 1 / 2022</i>	

PURGING DATA

WELL DIAMETER (inches): <i>1</i>	TUBING DIAMETER (inches): <i>1/4</i>	WELL SCREEN INTERVAL DEPTH: <i>5</i> feet to <i>15</i> feet	STATIC DEPTH TO WATER (feet): <i>6.35</i>	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (15 \text{ feet} - 6.35 \text{ feet}) \times 0.04 \text{ gallons/foot} = 0.35 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <i>7.5</i>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>7.5</i>	PURGING INITIATED AT: <i>1221</i>	PURGING ENDED AT: <i>1232</i>	TOTAL VOLUME PURGED (gallons): <i>0.86</i>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
<i>1225</i>	<i>0.40</i>	<i>0.40</i>	<i>0.10</i>	<i>6.56</i>	<i>6.50</i>	<i>27.2</i>	<i>183.3</i>	<i>0.75 / 9.4</i>	<i>36.4</i>	<i>14.6</i>	<i>clear/none</i>
<i>1228</i>	<i>0.12</i>	<i>0.52</i>	<i>0.06</i>	<i>6.56</i>	<i>6.51</i>	<i>27.3</i>	<i>183.9</i>	<i>0.48 / 6.1</i>	<i>25.1</i>	<i>14.0</i>	<i>" "</i>
<i>1230</i>	<i>0.12</i>	<i>0.64</i>	<i>0.06</i>	<i>6.56</i>	<i>6.51</i>	<i>27.2</i>	<i>184.2</i>	<i>0.42 / 5.4</i>	<i>24.2</i>	<i>14.1</i>	<i>" "</i>
<i>1232</i>	<i>0.12</i>	<i>0.86</i>	<i>0.06</i>	<i>6.56</i>	<i>6.51</i>	<i>27.2</i>	<i>184.33</i>	<i>0.43 / 5.7</i>	<i>24.0</i>	<i>14.3</i>	<i>" "</i>
WELL CAPACITY (Gallons Per Foot): $0.75'' = 0.02$; $1'' = 0.04$; $1.25'' = 0.06$; $2'' = 0.16$; $3'' = 0.37$; $4'' = 0.65$; $5'' = 1.02$; $6'' = 1.47$; $12'' = 5.88$ TUBING INSIDE DIA. CAPACITY (Gal./Ft.): $1/8'' = 0.0006$; $3/16'' = 0.0014$; $1/4'' = 0.0026$; $5/16'' = 0.004$; $3/8'' = 0.006$; $1/2'' = 0.010$; $5/8'' = 0.016$											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: <i>1233</i>		SAMPLING ENDED AT: <i>1237</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>7.5</i>				TUBING MATERIAL CODE: <i>[Mark]</i>				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>		FILTER SIZE: -- μm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<i>DEP MW-45</i>	<i>3</i>	<i>HDPE</i>	<i>125 mL</i>	<i>--</i>	<i>--</i>	<i>*</i>	<i>PFAS/8321B</i>	<i>APP</i>	<i><500</i>		
						<i>*</i>					
						<i>*</i>					
						<i>*</i>					
						<i>*</i>					
REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab. J - Calibrations or calibration verifications did not meet <i>Extra sample bottle collected for high turbidity</i> calibration acceptance criteria for 200 $\mu\text{s/cm}$ standard.											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421 WELL NO: DEPMW-55	SITE LOCATION: Miami, FL SAMPLE ID: DEPMW-55 DATE: 3 / 2 / 2022
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PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.50	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (12 feet - 6.50 feet) X 0.04 gallons/foot = 0.22 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1541	PURGING ENDED AT: 1550	TOTAL VOLUME PURGED (gallons): 0.9							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1546	0.5	0.5	0.1	6.88	7.09	25.0	418.1	0.14 / 1.7	8.32	-54.5	CLEAR/PURE
1548	0.2	0.7	0.1	6.88	7.08	24.9	417.7	0.14 / 1.7	5.02	-55.5	" "
1550	0.2	0.9	0.1	6.88	7.08	24.9	417.3	0.12 / 1.6	4.18	-56.1	" "
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider				SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: 1551	SAMPLING ENDED AT: 1604	
PUMP OR TUBING DEPTH IN WELL (feet): 8		TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: ___ µm			
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> N (replaced)		DUPLICATE: Y <input type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
DEPMW-55	2	HDPE	125 mL	--	--	*	PFAS/8321B	APP	<500
DEPMW-55	2	AG	1L	--	--	*	PAH	APP	<500
DEPMW-55	4	CG	40mL	HCl	--	*	VOC	APP	100-400
REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab. EB collected here (EB-PP-2) @ 1613 PAH & VOC & PFAS									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 "J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.
 J - Calibrations or calibration verifications did not meet calibration acceptance criteria for 200 µs/cm standard.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421	SITE LOCATION: Miami, FL
WELL NO: DEPMW-65	SAMPLE ID: DEPMW-65
DATE: 3 / 1 / 2022	

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.16	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (12 feet - 6.16 feet) X 0.04 gallons/foot = 0.24 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 1552	PURGING ENDED AT: 1600	TOTAL VOLUME PURGED (gallons): 0.80							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1556	0.40	0.40	0.10	6.29	7.23	25.8	375.1	0.33/4.1	9.08	19.7	clear/none
1558	0.20	0.60	0.10	6.29	7.23	25.8	371.1	0.27/3.3	6.99	19.0	" "
1600	0.20	0.80	0.10	6.29	7.20	25.9	370.9	0.24/3.0	5.73	18.5	" "
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 1501		SAMPLING ENDED AT: 1504		
PUMP OR TUBING DEPTH IN WELL (feet): 7.5				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: ___ μm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>								
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
DEPMW-65	2	HDPE	125 mL	--	--	*	PFAS/8321B	APP	<500			
						*						
						*						
						*						
						*						
REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.												
J - Calibrations or calibration verifications did not meet calibration acceptance criteria for 200 μs/cm standard.												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 "J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

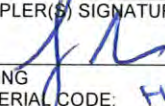
DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421		SITE LOCATION: Miami, FL	
WELL NO: <u>Dmw-1</u>	SAMPLE ID: <u>Dmw-1</u>	DATE: <u>3 / 2 / 2022</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>30</u> feet to <u>35</u> feet	STATIC DEPTH TO WATER (feet): <u>6.11</u>	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>35</u> feet - <u>6.11</u> feet) X <u>0.16</u> gallons/foot = <u>4.63</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>7.5</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>7.5</u>	PURGING INITIATED AT: <u>1102</u>	PURGING ENDED AT: <u>1149</u>	TOTAL VOLUME PURGED (gallons): <u>7.84</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1135	7.0	7.0			6.02	28.1	592	0.28 / 3.6			21.0
1135	7.0	7.0	0.22	6.24	8.78	28.3	148.2	287 / 37.1	531	-52.3	clear/pale
1145	0.60	7.60	0.06	6.24	7.15	28.9	200.1	0.11 / 1.4	468	-22.2	" "
1147	0.12	7.72	0.06	6.24	7.15	29.0	199.6	0.11 / 1.5	456	-24.2	" "
1149	0.12	7.84	0.06	6.24	7.20	29.1	199.0	0.11 / 1.5	447	-36.6	" "
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>1150</u>		SAMPLING ENDED AT: <u>1154</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>7.5</u>				TUBING MATERIAL CODE: <u>HDPE</u>				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: ___ μm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>Dmw-1</u>	<u>3</u>	<u>HDPE</u>	<u>125 mL</u>	<u>--</u>	<u>--</u>	<u>*</u>	<u>PFAS/8321B</u>	<u>APP</u>	<u><500</u>		
						*					
						*					
						*					
						*					
						*					
REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab. <u>HIGH TURBIDITY AT HIGHER FLOW RATE (OVER RANGE) Extra sample bottles</u>											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 "J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Miami Dade College Fire Training Facility ERIC 7421	SITE LOCATION: Miami, FL
WELL NO: <u>DEPmw-6D</u>	SAMPLE ID: <u>DEPmw-6D</u>
DATE: <u>3/2/2022</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>70</u> feet to <u>80</u> feet	STATIC DEPTH TO WATER (feet): <u>8.08</u>	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (<u>80</u> feet - <u>8.08</u> feet) X <u>0.16</u> gallons/foot = <u>11.51</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	PURGING INITIATED AT: <u>1649</u>	PURGING ENDED AT: <u>1732</u>	TOTAL VOLUME PURGED (gallons): <u>18</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
<u>1718</u>	<u>12</u>	<u>12</u>	<u>0.41</u>	<u>8.14</u>	<u>7.61</u>	<u>26.9</u>	<u>322.5</u>	<u>0.08/1.0</u>	<u>1.83</u>	<u>-72.4</u>	<u>colorless/none</u>
<u>1725</u>	<u>3</u>	<u>15</u>	<u>0.41</u>	<u>8.14</u>	<u>7.59</u>	<u>26.9</u>	<u>325.5</u>	<u>0.08/1.0</u>	<u>1.71</u>	<u>-82.7</u>	<u>" "</u>
<u>1732</u>	<u>3</u>	<u>18</u>	<u>0.41</u>	<u>8.14</u>	<u>7.60</u>	<u>26.9</u>	<u>325.93</u>	<u>0.07/0.8</u>	<u>0.90</u>	<u>-91.2</u>	<u>" "</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY Golder Associates: Justin Spengler Stephen Sider				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>1733</u>		SAMPLING ENDED AT: <u>1738</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>				TUBING MATERIAL CODE: <u>HDPE</u>		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: ___ μm			
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)		DUPLICATE: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>DEPmw-6D</u>	<u>4</u>	<u>HDPE</u>	<u>125 mL</u>	<u>--</u>	<u>--</u>	<u>*</u>	<u>PFAS/8321B</u>	<u>APP</u>	<u><500</u>		
<u>DUP-DEPmw-6D</u>	<u>2</u>	<u>HDPE</u>	<u>125mL</u>	<u>-</u>	<u>-</u>	<u>*</u>	<u>PFAS</u>	<u>APP</u>	<u><500</u>		
						<u>*</u>					
						<u>*</u>					
						<u>*</u>					
						<u>*</u>					

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
ms/msd and DUP collected here

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 "J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Field Instrument Dissolved Oxygen & Oxidation-Reduction Potential Calibration Records

 INSTRUMENT (MAKE/MODEL NO.) YSI Pro Plus INSTRUMENT NO. 1
STANDARD INFORMATION

 Project Number: 21451173 Project Name: Miami Dade College Fire Academy

 Standard Vendor: GEOTECH

 Prepared Date: NA Where Prepared: NA

 Grade: N/A DO Units: mg/L OR Units: mV

 ORP Standard: 220@25 °C Lot # 1GL527 Exp: Date SEP 2022 Pur. Date: APR 2022

 DO Standard Air Calibration Chamber in Air (Table FS 2200-2)

Standard _____

Standard _____

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	CHART 100% VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/1/22	0756	21.9	8.761	8.96	<0.3	P	N	Init Cont Final	JS
3/2/22	0824	21.2	8.88	8.98	<0.3	P	N	Init Cont Final	JS
3/3/22	0650	21.9	8.76	9.01	<0.3	P	N	Init Cont Final	SS
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
ORP									
3/1/22	0812	22.2	224	229.9	<10 mV	P	N	Init Cont Final	JS
3/2/22	0838	23.5	224	228.0	<10 mV	P	N	Init Cont Final	JS
3/3/22	0655	21.2	227	219.1	<10 mV	P	N	Init Cont Final	SS
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 0.3 mg/L of the value of appropriate calibration standard. Need to record DO readings in mg/L and use Table FS 2200-2 "Dissolved Oxygen Saturation". ORP calibration reading must be within +/- 10 mV from the theoretical redox standard value at that temperature.

Field Instrument pH Calibration Records

 INSTRUMENT (MAKE/MODEL NO.) YSI Pro Plus INSTRUMENT NO. 1
STANDARD INFORMATION

 Project Number: 21451173 Project Name: Miami Dade College Fire Academy

 Standard Vendor: GEOTECH

 Prepared Date: NOV 2020 Where Prepared: NA

 Purchase Date: SEE BELOW Expiration Date: Varies Grade: N/A Units: Standard Units

 Standard 4.00 @25 °C Lot # 1GF009 Exp Date JUN 2023 Purch Date SEP 2021

 Standard 7.00 @25 °C Lot # 1GF003 Exp Date JUN 2023 Purch Date SEP 2021

 Standard 10.0 @25 °C Lot # 1GF458 Exp Date JUN 2023 Purch Date SEP 2021

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/1/22	0806	22.6	7.02	6.97	< 0.2	P	N	Init Cont Final	JS
3/1/22	0808	22.4	4.00	4.18	< 0.2	P	N	Init Cont Final	JS
3/1/22	0810	22.4	10.05	9.87	< 0.2	P	N	Init Cont Final	JS
3/2/22	0832	23.6	7.02	6.99	< 0.2	P	N	Init Cont Final	JS
3/2/22	0834	23.5	4.00	4.18	< 0.2	P	N	Init Cont Final	JS
3/2/22	0836	23.5	10.05	9.87	< 0.2	P	N	Init Cont Final	JS
3/3/22	0700	20.7	7.02	7.09	< 0.2	P	N	Init Cont Final	SS
3/3/22	0705	20.7	4.00	4.17	< 0.2	P	N	Init Cont Final	SS
3/3/22	0710	20.6	10.05	9.89	< 0.2	P	N	Init Cont Final	SS
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 0.2 pH units of the value of appropriate calibration standard.

Field Instrument Conductivity Calibration Records

 INSTRUMENT (MAKE/MODEL NO.) YSI Pro Plus INSTRUMENT NO. 1
STANDARD INFORMATION

 Project Number: 21451173 Project Name: Miami Dade College Fire Academy

 Standard Vendor: Geotech

 Prepared Date: NA Where Prepared: NA

 Grade: N/A Units: umhos/uS-cm

 Standard 200 @25 °C Lot # 1GE217 Exp Date May 2022 Pur Date Apr 2021

 Standard 1000@25 °C Lot # 1GF443 Exp Date Jun 2022 Pur Date Apr 2021

 Standard 2000@25 °C Lot # 1GE871 Exp Date Feb 2022 Pur Date Jun 2021

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C°	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/1/22	0820	23.1	200	240.3	> 5%	F	N	Init Cont Final	JS
3/1/22	0802	23.2	1,000	997	< 5%	P	N	Init Cont Final	JS
3/1/22	0804	22.5	2,000	1932	< 5%	P	N	Init Cont Final	JS
3/2/22	0826	23.5	200	241.0	> 5%	F	N	Init Cont Final	JS
3/2/22	0828	23.5	1,000	993	< 5%	P	N	Init Cont Final	JS
3/2/22	0830	23.6	2,000	1930	< 5%	P	N	Init Cont Final	JS
3/3/22	0715	20.7	200	238.1	> 5%	N	N	Init Cont Final	SS
3/3/22	0720	20.7	1,000	991	< 5%	P	N	Init Cont Final	SS
3/3/22	0715	20.6	2,000	1938	< 5%	P	N	Init Cont Final	SS
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 5% of the appropriate calibration standard.

Note: Standards and instrument response readings are corrected to 25°C.

Field Instrument Turbidity Calibration Records

 INSTRUMENT (MAKE/MODEL NO.) HACH INSTRUMENT NO. GR

 Project Number: 21451173 Project Name: Miami Dade College Fire Academy

 Standard Vendor: HACH

 Prepared Date: NA Where Prepared: NA

 Purchase Date: April 2021 Expiration Date: May 2022 Lot Number: SEE BELOW
Units: Nephelometric Turbidity Unit

 Standard 10 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1050

 Standard 20 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1042

 Standard 100 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1049

 Standard 800 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1050

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/1/22	0752	-	5.34	5.46	<10%	P	N	Init Cont Final	JS
3/1/22	0753	-	55.0	55.5	<6.5%	P	N	Init Cont Final	JS
3/1/22	0754	-	545	547	<5%	P	N	Init Cont Final	JS
3/2/22	0820	-	5.34	5.39	<10%	P	N	Init Cont Final	JS
3/2/22	0821	-	55.0	55.5	<6.5%	P	N	Init Cont Final	JS
3/2/22	0822	-	545	548	<5%	P	N	Init Cont Final	JS
3/3/22	0730	-	5.34	5.48	<10%	P	N	Init Cont Final	SS
3/3/22	0732	-	55.0	55.4	<6.5%	P	N	Init Cont Final	SS
3/3/22	0731	-	545	546	<5%	P	N	Init Cont Final	SS
		-			10%			Init Cont Final	
		-			6.5%			Init Cont Final	
		-			5%			Init Cont Final	
		-			10%			Init Cont Final	
		-			6.5%			Init Cont Final	
		-			5%			Init Cont Final	
		-			10%			Init Cont Final	
		-			6.5%			Init Cont Final	
		-			5%			Init Cont Final	
		-			10%			Init Cont Final	
		-			6.5%			Init Cont Final	
		-			5%			Init Cont Final	

Calibration values for turbidity needs to be within 10% of the standard for values between 0.1-10 NTU; 8% for values between 11-40 NTU; 6.5% for values between 41-100 NTU and 5% for values >100 NTU.

2/28/22 Miami Dade College Fire Training Facility 21451173

JS/SS

Miami, FL

JS = Justin Spengler SS = Stephen Sider

0600 Arrive at Calder Jacksonville office. Load vehicle

0635 Depart for site

1255 Call from Jim at Surv Tech, he will be on site ~ 14:15

1305 On site. Review HASP. Check in with information office
(in Scott Hall) as a contractor.

1330 Call Bob Lynch of B Lynch Driving School to access gate
for Area of Concern (AOC) 1. Begin opening wells for DTW.

1405 Meet Surv Tech outside Scott Hall. Have them check in
Review HASP, scope of work.

1430 Surv Tech on site, set up and begin work.
Continue collecting DTW.

Call security to get access to gated MWS and irrigation wells

1830 Complete water levels, depart site.

Well DEPMW-85 not located, S Neal notified. Possibly buried
under dirt from construction activities.

SS

3/1/22 Miami Dade College Fire Training Facility

21451173

JS/SS

Miami, FL

0645 Depart for site

0730 Arrive on site, check in

0740 Arrive in AoCI. Well 12 irrigation well was running when we arrived.

Review HASP. Calibration checks, begin GW sampling

See calibration logs, GW purge forms

0930 Issue with large peristaltic pump not running, discuss with SNeal, troubleshoot

1037 Collect MS/MSD at DEPMW-3D

1105 Collect DUP-MW-1W 1213 Collect EB-PP-1 at MW-1E

1245 Look for ~~AO~~ DEPMW-8S missing well. Area has been scraped but well not located. Discuss with SNeal.

Access well 10 irrigation well by asking Bldg 500 (Aquatics Center) for access after waiting >15 min for campus security. Access granted via pool manager, who said campus security does not have the key. They use a 3rd party contractor for maintenance/repairs. The well is for heating pool water. It was active when accessed.

1510 Check on DEPMW-8S Has been scraped a second time, no well visible. SurvTech has metal detector, no well located

SurvTech depart site.

1645 Clean up

1700 Depart site

1800 Fuse obtained for peristaltic pump

1815 End of day.

SS

3/2/22 Miami Dade College Fire Training Facility 21451173 JS/SS

Miami, FL

0700 Depart for site

0800 Check in on site, go to AOC 1.

Peristaltic Pump still not working with new fuse.

Calibration check. Begin GW sampling.

Call JNeal, ask about PAH/VOC collection in AOC 3 since
DEPMW-85 ⁽³⁾ ~~is~~ missing was not located. Skip AOC 3 PAH/VOC.

Call RAlfonso for access to irrigation wells 1, 4, 11

RAlfonso provides plumber (Luis) to go with JS to irrigation wells.

Irrigation well 1 broken, has to be manually held in on position,
purged for 6 mins

Irrigation well 11 connected to sprinkler system for grass around
pond.

1532 FRB-DEPMW-5D collected

1534 Collect DUP-DEPMW-5D

1613 Collect EB-PP-2 at DEPMW-5S

1733 Collect MS/MSD and DUP-DEPMW-6D.

1800 Depart site.

SS

3/3/22 Miami Dade College Fire Training Facility

21451173

SS/SS

Miami, FL

0645 Begin day Review HASP

Check samples, calibration check

0750 Depart hotel

1415 Return to Jax office unload vehicle. Pack coolers.

1556 Relinquish samples to Fed Ex for overnight shipping

Will send tracking information via email to FDEP.

SS

2/28/22 Miami Dade College Fire Training Facility 21451173

JS/SS

Well ID	DTW	Sample Date	Sample Time	Analysis
MW-1W	6.61 ^x	3/1	1105	PFAS
MW-1E	6.35 ^x	3/1	1203	
MW-2	6.04	3/1	0832	
MW-3	6.63	3/2	0936	
DEPMW-15	6.18	3/2	1354	+PAH, VOC
DEPMW-25	6.37 ^x	3/1	1142	
DEPMW-35	6.23	3/2	1132	+PAH, VOC
DEPMW-45	6.35	3/1	1233	
DEPMW-55	6.50	3/2	1551	+PAH, VOC
DEPMW-6 5 ⁵	6.16	3/1	1501	
DEPMW-75	6.00	3/1	0913	↓
DEPMW-85	Not Located			
DEPMW-95	6.97	3/1	1503	PFAS
DEPMW-105	6.30	3/1	1628	
DEPMW-115	7.40	3/1	1538	
DMW-1	6.11	3/2	1150	
DEPMW-1D	6.28	3/2	1056	
DEPMW-2D	6.73	3/2	0918	
DEPMW-3D	6.10	3/1	1037	
DEPMW-4D	6.15	3/2	1339	
DEPMW-5D	6.54	3/2	1534	
DEPMW-6D	8.08	3/2	1733	
Well 1	Nm	3/2	1356	
Well 4	Nm	3/2	1341	
Well 10	Nm	3/1	1340	
Well 11	Nm	3/2	1416	
Well 12	Nm	3/1	0830	↓

x = Roots/organics
in wellDTW may not
be accurate

Daily PFAS Sampling Checklist

Date: 2/28/22

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 70s Clear

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): J Spengler

Field Team Leader Signature: *J Spengler*

Date/Time: 2/28/22 1400

Daily PFAS Sampling Checklist

Date: 3/1/22

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 70s clear

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): J Spengler

Field Team Leader Signature: 

Date/Time: 3/1/22 0645

Daily PFAS Sampling Checklist

Date: 3/2/22

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 70s Rain to Partly Cloudy

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): J Spengler

Field Team Leader Signature: 

Date/Time: 3/2/22 0655

Daily PFAS Sampling Checklist

Date: 3/3/22

Site Name: Miami Dade College Fire Training Facility

Weather (temperature/precipitation): 70s Partly Cloudy

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- No water- or stain-resistant clothing (e.g., GORE-TEX®)
- During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- Clothing has not been recently laundered with a fabric softener
- No coated HDPE suits (e.g., coated Tyvek® suits)
- Field crew has not used cosmetics, moisturizers, or other related products today
- Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- No materials containing Teflon™, Viton™, or fluoropolymers
- No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- No plastic clipboards, binders, or spiral hard cover notebooks
- No waterproof field books
- No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- No chemical (blue) ice, unless it is contained in a sealed bag
- No aluminum foil
- No sticky notes (e.g., certain Post-It® products)

Decontamination:

- Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- "PFAS-free" water is on-site for decontamination of field equipment
- Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- No food or drink on-site, except within staging area
- Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): J Spengler

Field Team Leader Signature: 

Date/Time: 3/3/22 0650



FedEx Office

Address: 9802 BAYMEADOWS RD
JACKSONVILLE
FL 32256
Location: NRBK
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
Tracking Number:
522555418207 50.10 1b (M)

FedEx Express Package(s) - Dropped Off
Tracking Number:
522555418192 48.25 1b (M)

FedEx Express Package(s) - Dropped Off
Tracking Number:
929380160990 61.60 1b (M)

Total Pieces: 3

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1.800.463.3339

Mar 03, 2022 3:56:42 PM

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Redemption Code: _____

*** Thank you ***

Chain of Custody Record

Project Name					# B O T T L E S	Analyses										Comments		
Sampled by			Module#			PFAS/W-PFAS-MMS	PAH/W-PAH-R	VOC/W-VOC-A-R										
RQ#		Site Name																
SIS-PFAS																		
J Sprangler, S Sider																		
2021-08-16-13		Miami Dade College Fire Training Facility																
Field ID	Matrix	Date	Time	Bottle Group														
MW-1W	GW	3/1/22	1105	A	2	2												
MW-1E	GW	3/1/22	1203	A	2	2												
MW-2	GW	3/1/22	0832	A	2	2												
MW-3	GW	3/2/22	0936	A	2	2												
DEPMW-15	GW	3/2/22	1354	A F	8	2	2	4										
DEPMW-25	GW	3/1/22	1142	A	2	2												
DEPMW-35	GW	3/2/22	1132	A F	8	2	2	4										
DEPMW-45	GW	3/1/22	1233	A	2	2												
DEPMW-55	GW	3/2/22	1551	A F	8	2	2	4										
DEPMW-65	GW	3/1/22	1501	A	2	2												
DEPMW-75	GW	3/1/22	0913	A	2	2												
DEPMW-95	GW	3/1/22	1503	A	2	2												
Relinquished by:		Date/Time		Method of Dispatch		Received by:				Date/Time								
[Signature] Golder		3/1/22 1545		FedEx														
Relinquished by:		Date/Time		Method of Dispatch		Received by:				Date/Time								
Relinquished by:		Date/Time		Method of Dispatch		Received by:				Date/Time								

Remarks:

Preservative Sticker 1	Preservative Sticker 2	Preservative Sticker 3	Preservative Sticker 4
------------------------	------------------------	------------------------	------------------------

Chain of Custody Record

Project Name <u>SIS-PFAS</u>					# B O T T L E S	Analyses										Comments
Sampled by <u>J Spengler, S Sider</u>			Module#			PFAS/W-PFAS-MS	PAH/W-PAH-R	VOC/W-VOC-A-R								
RQ# <u>2021-08-16-13</u>	Site Name <u>Miami Dade College Fire Training Facility</u>															
Field ID	Matrix	Date	Time	Bottle Group												
DEPMW-10S	GW	3/1/22	1628	A	3	3										Extra bottle high turbidity
DEPMW-11S	GW	3/1/22	1538	A	2	2										
DMW-1	GW	3/2/22	1150	A	3	3										Extra bottle high turbidity
DEPMW-1D	GW	3/2/22	1056	A	2	2										
DEPMW-2D	GW	3/2/22	0918	A	3	3										Extra bottle high turbidity
DEPMW-3D	GW	3/1/22	1037	A	4	4										MS/MSD
DEPMW-4D	GW	3/2/22	1339	A	2	2										
DEPMW-5D	GW	3/2/22	1534	A	2	2										
DEPMW-6D	GW	3/2/22	1733	A	4	4										ms/msd
Well 1	GW	3/2/22	1356	A	2	2										
Well 4	GW	3/2/22	1341	A	2	2										
Well 10	GW	3/1/22	1340	A	2	2										
Relinquished by: <u>[Signature]</u>		Date/Time <u>3/3/22 1545</u>		Method of Dispatch <u>Fed Ex</u>		Received by:				Date/Time						
Relinquished by:		Date/Time		Method of Dispatch		Received by:				Date/Time						
Relinquished by:		Date/Time		Method of Dispatch		Received by:				Date/Time						

Remarks:

Preservative Sticker 1	Preservative Sticker 2	Preservative Sticker 3	Preservative Sticker 4
------------------------	------------------------	------------------------	------------------------

Chain of Custody Record

Project Name					# B O T T L E S	Analyses								Comments
SIS- PFAS				Module#		PFAS/W-PFAS-MX	PAH/W-PAH-R	VOL/W-VOL-A-R						
Sampled by		SSpangler SSider												
RQ#	Site Name													
2021-08-16-13	Miami Dade College Fire Training Facility													
Field ID	Matrix	Date	Time <input type="checkbox"/> ET <input type="checkbox"/> CT	Bottle Group										
Well 11	GW	3/2/22	1416	A	2	2								
Well 12	GW	3/1/22	0830	A	2	2								
DUP - MW - 1W	GW	3/1/22	1105	A	2	2								
DUP - AW - 5D (D)	GW	3/2/22	1534	A	2	2								
DUP - DEPMW - 6D	GW	3/2/22	1733	A	2	2								
EB - PP - 1	water	3/1/22	1213	C	2	2								
EB - PP - 2	water	3/2/22	1613	CG	6	2	2	2						
FRB - MW - 5D (D)	water	3/2/22	1532	D	2	2								
Trip Blank	water	—	—	H	2			2						
Relinquished by:					Date/Time	Method of Dispatch		Received by:			Date/Time			
<i>[Signature]</i> Golder					3/3/22 1545	FedEx								
Relinquished by:					Date/Time	Method of Dispatch		Received by:			Date/Time			
Relinquished by:					Date/Time	Method of Dispatch		Received by:			Date/Time			

Remarks:

Preservative Sticker 1	Preservative Sticker 2	Preservative Sticker 3	Preservative Sticker 4
------------------------	------------------------	------------------------	------------------------

Sample Packaging/Shipping Checklist for FDEP SIS/SOL PFAS Projects

Objective: Ensure sample kits are received and samples are packaged and shipped properly.

Instructions: Please answer each question. For any question with a No answer, please provide details/justification below the question. A copy of this checklist should be saved to the project folder, accompany the sample kit, and be returned to the lab with the samples.

Project Name:

Project Number:

Cooler: # 1-3 of # 3-3
 Associated COCs: # 1 of # 3 thru # 3 of # 3

Checked by: S. Siano
 Date: 3/3/22

Final Check/Date: 3/3/22
 COC Checked: SS
 Photos Checked: SS

Item

- Sample dates, times, IDs on field notes, COC, bottle labels (in Sharpie) Match and no blind duplicates on COC Yes No
- RQ Number and Bottle Group on Samples consistent with FDEP Paperwork and Different RQs Packed in Different Coolers Yes No
- If Liquid IDW Samples Collected, Trip Blank included in Cooler and on COC Yes No
- Heavy-Duty Garbage Bag Place in Cooler and Ice in Bottom of Bag Yes No
- Bagged Samples (including Temp Blank) Placed on Ice (Photo) Yes No
- Additional Ice (Not Bagged) Placed on Samples (Photo) Yes No
- Bag Sealed and COC, RQ, Checklist in Ziplock Bag Taped to Cooler Lid (Photo) Yes No
- FDEP Notified of Shipping Date, Method, Expected Arrival Yes No







Coleman



10
A barcode sticker is located on the inner surface of the white lid, near the bottom edge. The sticker contains a barcode and some illegible text.



Rubbermaid

Rubbermaid
Cooler
60 Liter / 16 Gallon
Model # 3547
Rubbermaid
1000
1000





Rubbermaid
Crush Ice
13.5 Gallon Capacity
13.5 Gallon Capacity
13.5 Gallon Capacity

Reddy Ice







IGLOO





IGLOO

IGLOO



APPENDIX B

Photographic Log

Miami-Dade College Fire Training Facility

Photograph 1

View looking southeast across the fire training facility (AOC-1) from the northern portion of the facility.



Photograph 2

View looking north at existing deep monitoring well DMW-1 located in the southern portion of the fire training facility (AOC-1).



Miami-Dade College Fire Training Facility

Photograph 3

View looking northwest at the Fire Science Burn Building training area (AOC-2) in the southwestern portion of the Miami Dade College campus.



Photograph 4

View looking southeast at the former hangar (AOC-3) located approximately 1,000 feet to the east of the fire training facility on the Miami-Dade College campus.



Miami-Dade College Fire Training Facility

Photograph 5

View looking west at GeoTek Services, LLC performing a ground-penetrating radar survey to locate buried utilities in the western portion of AOC-1.



Photograph 6

Typical view of soil sampling activities using a decontaminated stainless steel hand auger and disposable poly sheeting.



Miami-Dade College Fire Training Facility

Photograph 7

View of Groundwater Protection's GeoProbe 7822DT direct-push drill rig used for vertical groundwater profiling and shallow monitoring well installation.



Photograph 8

View looking southeast at the decontamination pit and decontamination procedures which took place in the southern portion of AOC-1.



Miami-Dade College Fire Training Facility

Photograph 9

View looking south at vertical groundwater profile sampling activities at VP-1 in AOC-4. A peristaltic pump and disposable HDPE tubing were used for groundwater sampling.



Photograph 10

View of typical installation of 0.75-inch diameter shallow groundwater monitoring wells using prepacked screens.



Miami-Dade College Fire Training Facility

Photograph 11

View of Preferred Drilling Solutions' Terra Sonic GeoProbe 150 Compact Crawler (TSI-150CC) sonic drill rig. This rig was used to collect lithologic boring Exploratory Boring-2 and to install deep monitoring wells.



Photograph 12

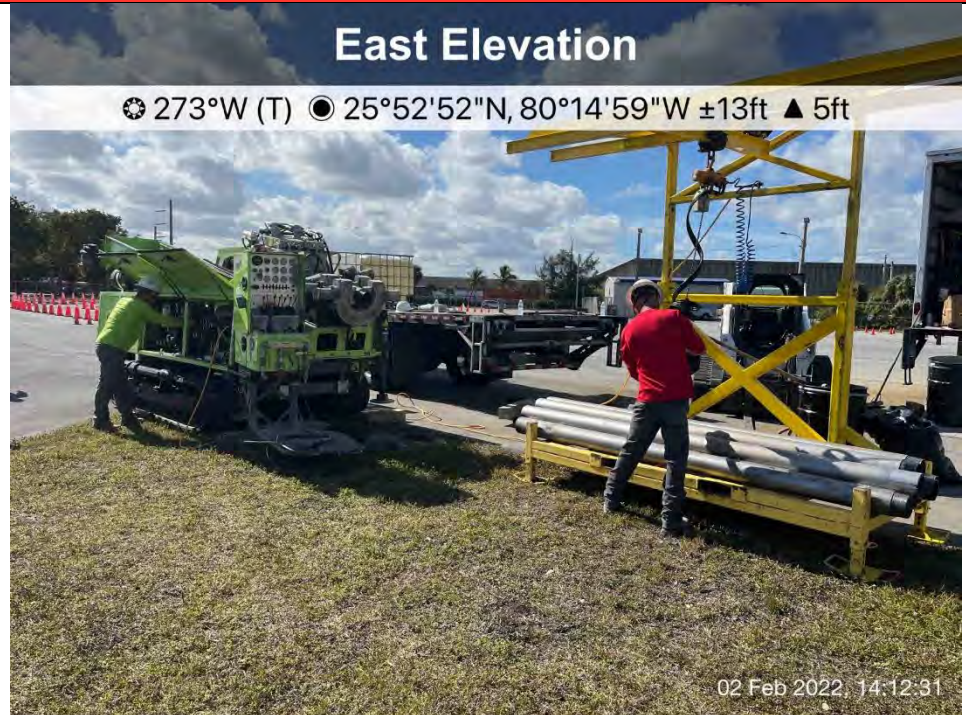
View of vuggy limestone in the 50-55 feet below ground surface interval of exploratory boring Exploratory Boring-2 located in AOC-1.



Miami-Dade College Fire Training Facility

Photograph 13

Looking west at typical sonic drilling activities at the deep monitoring well DEPMW-3D location in the eastern portion of AOC-1.



Photograph 14

Typical view of well development using a peristaltic pump and disposable 3/8-inch disposable HDPE tubing.



Miami-Dade College Fire Training Facility

Photograph 15

View looking northwest at DEPMW-5S completed with a 2-foot by 2-foot concrete pad and 8-inch bolt-down manhole located in AOC-2, typical of monitoring well surface completion.



Photograph 16

Typical view of irrigation well construction and purging prior to groundwater sampling.



Miami-Dade College Fire Training Facility

North Elevation

☉ 172°S (T) ● 25°52'45"N, 80°15'5"W ±213ft ▲ 2ft

Photograph 17

Typical view of IDW storage located in the southern portion of AOC-1.



APPENDIX C

Survey Results



SurvTech Solutions, Inc.

10220 U.S. Highway 92 East
Tampa, Florida 33610
Florida Licensed Business No. 7340

Phone: 813-621-4929

Fax: 813-621-7194

Web: www.survtechsolutions.com

Monday, April 11, 2022

Scott Neal
WSP Golder
9428 Baymeadows Road, Suite 400
Jacksonville, Florida 32256

RE: **Miami-Dade College Fire Academy – Survey of monitoring and irrigation wells**

Mr. Neal,

The purpose of this report is to explain the procedures SurvTech Solutions, Inc. utilized in surveying the wells at the Miami-Dade College Fire Academy located near East Road and Northwest 113th Street, Miami, Florida.

Task 1 (Horizontal and Vertical Control):

SurvTech has performed survey work on this project multiple times over the last couple of years. The control used for this scope was secondary control established by SurvTech during previous field events. The original control and datums were established using the following control:

Horizontal Control:

Florida Permanent Reference Network (FPRN)

Vertical Control:

“M-124 & M-125” – Miami-Dade County Benchmarks

Task 2 (Horizontal Location of Sampling Points)

SurvTech utilized Real Time Kinematic (RTK) GPS for location of the wells. The equipment used was a Champion TKO receiver with an accuracy of ± 0.1 feet.

Task 3 (Vertical Location of the Sampling Points):

All of the sampling points for this project are monitoring and irrigation wells, and must be elevated to an accuracy of ± 0.01 feet. To obtain this level of accuracy a closed loop differential level run was performed through all of the wells. The equipment used was a Sokkia SDL 30 digital level reading a bar coded rod.

Task 4 (Data Reporting, and Datum's):

Below is a table depicting the horizontal and vertical data that SurvTech obtained for each of the monitoring wells. The horizontal datum used for this project was NAD 83 Florida East State Plane coordinate system. The elevations for the wells are depicted in NAVD 1988.

Designation	Northing Florida East US Survey Feet NAD 1983	Easting Florida East US Survey Feet NAD 1983	Ground Elevation US Survey Feet NAVD 1988	Rim Elevation US Survey Feet NAVD 1988
MW-1W	563521.7	902532.5	7.3	7.03
MW-1E	563580.1	902703.7	7.1	6.84
MW-2	563147.2	902721.7	6.7	6.38
MW-3	563060.2	902544.0	7.1	6.97
DEP MW-1S	560266.8	904568.4	6.9	6.50
DEP MW-2S	563466.1	902625.1	7.1	6.87
DEP MW-3S	563364.2	902463.2	7.0	6.62
DEP MW-4S	563390.8	902378.4	7.2	6.84
DEP MW-5S	560291.8	902792.9	7.3	6.96
DEP MW-6S	561943.9	902491.0	6.8	6.47
DEP MW-7S	563236.0	902760.3	6.8	6.41
DEP MW-9S	561862.6	905025.7	7.6	7.27
DEP MW-10S	563584.3	902381.5	7.2	6.79
DEP MW-11S	561546.1	903492.8	8.1	7.76
DMW-1	563361.7	902465.3	6.9	6.45
DEP MW-1D	563359.3	902467.1	6.9	6.63
DEP MW-2D	563071.5	902537.8	7.3	7.05
DEP MW-3D	563238.8	902762.4	6.7	6.44
DEP MW-4D	560278.9	904559.7	6.6	6.40
DEP MW-5D	560285.5	902792.1	7.0	6.80
DEP MW-6D	562811.8	903674.9	8.7	8.39
WELL 1	561117.5	903590.1	6.6	7.86
WELL 4	560098.4	904697.6	7.8	8.86
WELL 10	563108.9	903982.0	7.9	9.94
WELL 11	561871.1	903641.3	4.4	6.05
WELL 12	563162.4	902734.3	6.7	7.99

Note: DEP MW-8S was not located/leveled as client confirmed well could not be identified/found.

Note: The rim elevation depicted hereon refers to the north rim of the pvc pipe inside the well casing for the monitoring wells and at the top of the 90° elbow for the irrigation wells.

SurvTech Project Number: 22102
Field Date: Tuesday, March 1, 2022
Field Crew: J. Hawxwell, A. Fitzsimmons
Field Book: 22-04, Pages 01-08

Paper copies of this report are not valid without the original signature and raised seal of a Florida Licensed Surveyor and Mapper. Digital copies are not valid without the digital signature of a Florida Licensed Surveyor and Mapper.

Respectfully submitted,
 And Certified By:
 SurvTech Solutions, Inc.

Stacy L. Brown, P.S.M. #6516
 Vice President

APPENDIX D

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 800-424-9300	4. Waste Tracking Number CEI 0078539	
5. Generator's Name and Mailing Address FDEP 3180 NORTHWEST 119TH STREET MIAMI FL 33167			Generator's Site Address (if different than mailing address)			
Generator's Phone:						
6. Transporter 1 Company Name CLARK ENVIRONMENTAL INC.			863-425-4884		U.S. EPA ID Number FL0984206003	
7. Transporter 2 Company Name					U.S. EPA ID Number	
8. Designated Facility Name and Site Address CLARK ENVIRONMENTAL INC. 755 N. PRAIRIE INDUSTRIAL PKWY MULBERRY FL 33860			863-425-4884		U.S. EPA ID Number FL0984206003	
Facility's Phone:						
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1. INDUSTRIAL WASTE NON-REGULATED MATERIAL		001	DM	00055	G
	2. INDUSTRIAL WASTE NON-REGULATED MATERIAL		006	DM	00330	G
	3.					
4.						
13. Special Handling Instructions and Additional Information 46755 a. DCO1 SOLID b. DWOZ LIQUID c. d.			WASTE PROCESS HAS NOT CHANGED SINCE PROFILED Broker: GOLDER ASSOCIATES Broker Site Contact:			
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offoror's Printed/Typed Name Matthew Crews, Agent for Generator			Signature <i>Matthew Crews, Agent for Generator</i>		Month 11	Day 22
					Year 21	
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
	16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name <i>Carl Lynn</i>			Signature <i>[Signature]</i>		Month 11	Day 22
					Year 21	
Transporter 2 Printed/Typed Name			Signature <i>[Signature]</i>		Month	Day
					Year	
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	17b. Alternate Facility (or Generator)			Manifest Reference Number:		U.S. EPA ID Number
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)					Month	Day
					Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name <i>Brandy Crawford</i>			Signature <i>[Signature]</i>		Month 11	Day 22
					Year 21	

Chemtec

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
ERIC-7421

2. Page 1 of

3. Emergency Response Phone
800-424-9300

4. Waste Tracking Number
CEI 0081399

5. Generator's Name and Mailing Address
FDEP - Miami Dade College Fire Training Facility
3180 NORTHWEST 119TH STREET
MIAMI
Generator's Site Address (if different than mailing address)
Generator's Phone: FL 33167

6. Transporter 1 Company Name
CLARK ENVIRONMENTAL INC.
863-425-4884
U.S. EPA ID Number
FLD984Z06003

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLARK ENVIRONMENTAL INC.
755 N FAIRIE INDUSTRIAL PKWY
MILBERRY FL 33960
U.S. EPA ID Number
FLD984Z06003

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit W/Vol.	
	No.	Type			
1. INDUSTRIAL WASTE NON-REGULATED MATERIAL	004	DM	00220	G	
2. INDUSTRIAL WASTE NON-REGULATED MATERIAL	018	DM	00980	G	
3.					
4.					

13. Special Handling Instructions and Additional Information
WASTE PROCESS HAS NOT CHANGED SINCE PROFILED
46755 a. DCO1 SOLID
b. DW02 LIQUID
c.
d.
Broker:
GOLDER ASSOCIATES
Broker Site Contact:

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name
Scott Neal - Agent of FDEP
Signature
Scott Neal
Month Day Year
04 27 2022

15. International Shipments
 Import to U.S. Export from U.S.
Port of entry/exit:
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only):
Date leaving U.S.:

Transporter 1 Printed/Typed Name
Signature
Month Day Year
5 2 22
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year



18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Brand Crawford
Signature
Brand Crawford
Month Day Year
5 2 22

APPENDIX E

Laboratory Analytical Reports

Chemical Analysis Report

SIS-2022-03-04-02

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

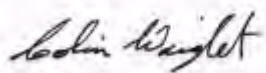
Event Description: **Miami Dade College Fire Training Facility**
Request ID: **RQ-2021-08-16-13**
Customer: **SIS**
Project ID: **SIS-PFAS**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: Jeff Newton

For additional information please contact
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Certified by: Colin Wright, Program Administrator

Date Certified: 24-MAR-2022 09:40



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Pesticides and Priority Organic Pollutants.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 11:05

Field ID: MW-1W

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310339	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	5.7		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	160		ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	14	I	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.2	I	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	240		ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	12		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	350		ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	12		ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	62		ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	41		ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	720		ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	3.7	I	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	1.8		ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.5	I	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	11		ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	5.4		ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	3.4	I	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.2E+03		ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	62		ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: MW-1W

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310339	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 12:03

Field ID: MW-1E

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310340	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.3		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	24		ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	19		ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	6.1		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	32		ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.4	I	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	9.6		ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	6.0	I	ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	46		ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	1.3	I	ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.5	I	ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: MW-1E

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310340	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 08:32

Field ID: MW-2

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310341	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.0	I	ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	1.4	I	ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	3.8	I	ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	60		ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	5.2	I	ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: MW-2

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310341	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 09:36

Field ID: MW-3

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310342	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.0		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	15	I	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	15		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	2.4	I	ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	10		ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	3.2	I	ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	0.70	I	ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: MW-3

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310342	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 13:54

Field ID: DEPMW-1S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310343	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.3		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	5.5	I	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	3.2	I	ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	2.6	I	ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: DEPMW-1S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310343	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 13:54

Field ID: DEPMW-1S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310336	EPA 8270E	Acenaphthene	0.024	U	ug/L	P410770	
		Acenaphthylene	0.024	U	ug/L	P410770	
		Anthracene	0.024	U	ug/L	P410770	
		Benzo(a)anthracene	0.024	U	ug/L	P410770	
		Benzo(a)pyrene	0.024	U	ug/L	P410770	
		Benzo(b)fluoranthene	0.024	U	ug/L	P410770	
		Benzo(k)fluoranthene	0.024	U	ug/L	P410770	
		Benzo(g,h,i)perylene	0.024	U	ug/L	P410770	
		Chrysene	0.024	U	ug/L	P410770	
		Dibenzo(a,h)anthracene	0.024	U	ug/L	P410770	
		Fluoranthene	0.024	U	ug/L	P410770	
		Fluorene	0.024	U	ug/L	P410770	
		Indeno(1,2,3-cd)pyrene	0.024	U	ug/L	P410770	
		2-Methylnaphthalene	0.024	U	ug/L	P410770	
		Naphthalene	0.049	U	ug/L	P410770	
		Phenanthrene	0.024	U	ug/L	P410770	
		Pyrene	0.024	U	ug/L	P410770	
		Biphenyl**	0.024	U	ug/L	P410770	
		Dibenzothiophene**	0.024	U	ug/L	P410770	
		2,6-Dimethylnaphthalene**	0.024	U	ug/L	P410770	
		1-Methylnaphthalene	0.024	U	ug/L	P410770	
		1-Methylphenanthrene**	0.024	UJ	ug/L	P410770	LCS
		2,3,5-Trimethylnaphthalene**	0.024	U	ug/L	P410770	
2310363	EPA 8260D	Benzene	0.20	U	ug/L	P410836	
		Bromodichloromethane	0.20	U	ug/L	P410836	
		Bromoform	0.50	U	ug/L	P410836	
		Bromomethane	0.50	U	ug/L	P410836	
		2-Butanone	3.0	U	ug/L	P410836	
		Carbon tetrachloride	0.20	U	ug/L	P410836	
		Chlorobenzene	0.20	U	ug/L	P410836	
		Chloroethane	0.50	U	ug/L	P410836	
		Chloroform	0.20	U	ug/L	P410836	
		Chloromethane	0.50	U	ug/L	P410836	
		Dibromochloromethane	0.20	U	ug/L	P410836	
		1,2-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,3-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,4-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,1-Dichloroethane	0.20	U	ug/L	P410836	
		1,2-Dichloroethane	0.20	U	ug/L	P410836	
		1,1-Dichloroethene	0.20	U	ug/L	P410836	
		cis-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		trans-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		1,2-Dichloropropane	0.20	U	ug/L	P410836	
cis-1,3-Dichloropropene	0.50	U	ug/L	P410836			

Field ID: DEPMW-1S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310363	EPA 8260D	trans-1,3-Dichloropropene	0.50	U	ug/L	P410836	
		Ethylbenzene	0.20	U	ug/L	P410836	
		Methyl-t-butyl ether	0.20	U	ug/L	P410836	
		Methylene chloride	1.0	U	ug/L	P410836	
		1,1,2,2-Tetrachloroethane	0.20	U	ug/L	P410836	
		Tetrachloroethene	0.20	U	ug/L	P410836	
		Toluene	0.50	U	ug/L	P410836	
		1,1,1-Trichloroethane	0.20	U	ug/L	P410836	
		1,1,2-Trichloroethane	0.20	U	ug/L	P410836	
		Trichloroethene	0.20	U	ug/L	P410836	
		Trichlorofluoromethane	0.20	U	ug/L	P410836	
		Vinyl chloride	0.20	U	ug/L	P410836	
		o-Xylene	0.50	U	ug/L	P410836	
		m,p-Xylene	0.50	U	ug/L	P410836	

Ref. Method and Comment:

EPA 8270E: No sample available for matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 11:42

Field ID: DEPMW-2S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310344	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	100		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	240		ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	8.7	I	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	310		ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	2.7E+03		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	570		ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	21		ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	290		ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	2.4E+03		ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	550		ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	270		ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	100		ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	1.5	I	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	54		ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	270		ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	19		ng/L	P410740	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	730		ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	32		ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: DEPMW-2S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310344	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	11	I	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 11:32

Field ID: DEPMW-3S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310345	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	350		ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	1.1E+03		ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	11	I	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	1.6E+03		ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	6.1E+03		ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.9E+03		ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	97		ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	980		ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.2E+04		ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	4.4E+03		ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	540		ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	300		ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	3.1		ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	370		ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.8E+03		ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	3.5		ng/L	P410908	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	45		ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.3E+04		ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	640		ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: DEPMW-3S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310345	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	68		ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 11:32

Field ID: DEPMW-3S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310337	EPA 8270E	Acenaphthene	0.024	U	ug/L	P410770	
		Acenaphthylene	0.024	U	ug/L	P410770	
		Anthracene	0.024	U	ug/L	P410770	
		Benzo(a)anthracene	0.024	U	ug/L	P410770	
		Benzo(a)pyrene	0.024	U	ug/L	P410770	
		Benzo(b)fluoranthene	0.024	U	ug/L	P410770	
		Benzo(k)fluoranthene	0.024	U	ug/L	P410770	
		Benzo(g,h,i)perylene	0.024	U	ug/L	P410770	
		Chrysene	0.024	U	ug/L	P410770	
		Dibenzo(a,h)anthracene	0.024	U	ug/L	P410770	
		Fluoranthene	0.024	U	ug/L	P410770	
		Fluorene	0.024	U	ug/L	P410770	
		Indeno(1,2,3-cd)pyrene	0.024	U	ug/L	P410770	
		2-Methylnaphthalene	0.024	U	ug/L	P410770	
		Naphthalene	0.047	U	ug/L	P410770	
		Phenanthrene	0.024	U	ug/L	P410770	
		Pyrene	0.024	U	ug/L	P410770	
		Biphenyl**	0.024	U	ug/L	P410770	
		Dibenzothiophene**	0.024	U	ug/L	P410770	
		2,6-Dimethylnaphthalene**	0.024	U	ug/L	P410770	
		1-Methylnaphthalene	0.024	U	ug/L	P410770	
		1-Methylphenanthrene**	0.024	UJ	ug/L	P410770	LCS
		2,3,5-Trimethylnaphthalene**	0.024	U	ug/L	P410770	
2310364	EPA 8260D	Benzene	0.20	U	ug/L	P410836	
		Bromodichloromethane	0.20	U	ug/L	P410836	
		Bromoform	0.50	U	ug/L	P410836	
		Bromomethane	0.50	U	ug/L	P410836	
		2-Butanone	3.0	U	ug/L	P410836	
		Carbon tetrachloride	0.20	U	ug/L	P410836	
		Chlorobenzene	0.20	U	ug/L	P410836	
		Chloroethane	0.50	U	ug/L	P410836	
		Chloroform	0.20	U	ug/L	P410836	
		Chloromethane	0.50	U	ug/L	P410836	
		Dibromochloromethane	0.20	U	ug/L	P410836	
		1,2-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,3-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,4-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,1-Dichloroethane	0.20	U	ug/L	P410836	
		1,2-Dichloroethane	0.20	U	ug/L	P410836	
		1,1-Dichloroethene	0.20	U	ug/L	P410836	
		cis-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		trans-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		1,2-Dichloropropane	0.20	U	ug/L	P410836	
cis-1,3-Dichloropropene	0.50	U	ug/L	P410836			

Field ID: DEPMW-3S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310364	EPA 8260D	trans-1,3-Dichloropropene	0.50	U	ug/L	P410836	
		Ethylbenzene	0.20	U	ug/L	P410836	
		Methyl-t-butyl ether	0.20	U	ug/L	P410836	
		Methylene chloride	1.0	U	ug/L	P410836	
		1,1,2,2-Tetrachloroethane	0.20	U	ug/L	P410836	
		Tetrachloroethene	0.20	U	ug/L	P410836	
		Toluene	0.50	U	ug/L	P410836	
		1,1,1-Trichloroethane	0.20	U	ug/L	P410836	
		1,1,2-Trichloroethane	0.20	U	ug/L	P410836	
		Trichloroethene	0.20	U	ug/L	P410836	
		Trichlorofluoromethane	0.20	U	ug/L	P410836	
		Vinyl chloride	0.20	U	ug/L	P410836	
		o-Xylene	0.50	U	ug/L	P410836	
		m,p-Xylene	0.50	U	ug/L	P410836	

Ref. Method and Comment:

EPA 8270E: No sample available for matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 12:33

Field ID: DEPMW-4S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310346	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	6.3		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	190		ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	10	I	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	150		ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	21		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	230		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	37		ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	16		ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	320		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	500		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	3.3		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.2	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	36	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-4S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310346	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 15:51

Field ID: DEPMW-5S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310347	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.5		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	6.1	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	33		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	11		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	3.0		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.96	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-5S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310347	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 15:51

Field ID: DEPMW-5S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310338	EPA 8270E	Acenaphthene	0.024	U	ug/L	P410770	
		Acenaphthylene	0.024	U	ug/L	P410770	
		Anthracene	0.024	U	ug/L	P410770	
		Benzo(a)anthracene	0.024	U	ug/L	P410770	
		Benzo(a)pyrene	0.024	U	ug/L	P410770	
		Benzo(b)fluoranthene	0.024	U	ug/L	P410770	
		Benzo(k)fluoranthene	0.024	U	ug/L	P410770	
		Benzo(g,h,i)perylene	0.024	U	ug/L	P410770	
		Chrysene	0.024	U	ug/L	P410770	
		Dibenzo(a,h)anthracene	0.024	U	ug/L	P410770	
		Fluoranthene	0.024	U	ug/L	P410770	
		Fluorene	0.024	U	ug/L	P410770	
		Indeno(1,2,3-cd)pyrene	0.024	U	ug/L	P410770	
		2-Methylnaphthalene	0.024	U	ug/L	P410770	
		Naphthalene	0.048	U	ug/L	P410770	
		Phenanthrene	0.024	U	ug/L	P410770	
		Pyrene	0.024	U	ug/L	P410770	
		Biphenyl**	0.024	U	ug/L	P410770	
		Dibenzothiophene**	0.024	U	ug/L	P410770	
		2,6-Dimethylnaphthalene**	0.024	U	ug/L	P410770	
		1-Methylnaphthalene	0.024	U	ug/L	P410770	
		1-Methylphenanthrene**	0.024	UJ	ug/L	P410770	LCS
		2,3,5-Trimethylnaphthalene**	0.024	U	ug/L	P410770	
2310365	EPA 8260D	Benzene	0.20	U	ug/L	P410836	
		Bromodichloromethane	0.20	U	ug/L	P410836	
		Bromoform	0.50	U	ug/L	P410836	
		Bromomethane	0.50	U	ug/L	P410836	
		2-Butanone	3.0	U	ug/L	P410836	
		Carbon tetrachloride	0.20	U	ug/L	P410836	
		Chlorobenzene	0.20	U	ug/L	P410836	
		Chloroethane	0.50	U	ug/L	P410836	
		Chloroform	0.20	U	ug/L	P410836	
		Chloromethane	0.50	U	ug/L	P410836	
		Dibromochloromethane	0.20	U	ug/L	P410836	
		1,2-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,3-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,4-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,1-Dichloroethane	0.20	U	ug/L	P410836	
		1,2-Dichloroethane	0.20	U	ug/L	P410836	
		1,1-Dichloroethene	0.20	U	ug/L	P410836	
		cis-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		trans-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		1,2-Dichloropropane	0.20	U	ug/L	P410836	
cis-1,3-Dichloropropene	0.50	U	ug/L	P410836			

Field ID: DEPMW-5S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310365	EPA 8260D	trans-1,3-Dichloropropene	0.50	U	ug/L	P410836	
		Ethylbenzene	0.20	U	ug/L	P410836	
		Methyl-t-butyl ether	0.20	U	ug/L	P410836	
		Methylene chloride	1.0	U	ug/L	P410836	
		1,1,2,2-Tetrachloroethane	0.20	U	ug/L	P410836	
		Tetrachloroethene	0.20	U	ug/L	P410836	
		Toluene	0.50	U	ug/L	P410836	
		1,1,1-Trichloroethane	0.20	U	ug/L	P410836	
		1,1,2-Trichloroethane	0.20	U	ug/L	P410836	
		Trichloroethene	0.20	U	ug/L	P410836	
		Trichlorofluoromethane	0.20	U	ug/L	P410836	
		Vinyl chloride	0.20	U	ug/L	P410836	
		o-Xylene	0.50	U	ug/L	P410836	
		m,p-Xylene	0.50	U	ug/L	P410836	

Ref. Method and Comment:

EPA 8270E: No sample available for matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 15:01

Field ID: DEPMW-6S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310348	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.1	I	ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	1.1	I	ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	3.6	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	35		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-6S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310348	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 09:13

Field ID: DEPMW-7S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310349	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.9		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	37		ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	22		ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	36		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	45		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	4.6	I	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	14		ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	400		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	97		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	4.1		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.2	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-7S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310349	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 15:03

Field ID: DEPMW-9S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310350	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.1		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	14	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	14		ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	10		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	26		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.2	I	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	19		ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	110		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	35		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	0.96	I	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-9S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310350	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 16:28

Field ID: DEPMW-10S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310351	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.5		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	250		ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	8.0	I	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	3.3	I	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	150		ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	4.1		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	340		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	9.8		ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	13		ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	11		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	670		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	3.3	I	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	1.1	I	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	2.0	I	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.96	I	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	40	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-10S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310351	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 15:38

Field ID: DEPMW-11S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310352	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.3		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	5.4	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	5.6	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	3.2	I	ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	6.7	I	ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	40		ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	140		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	5.7	I	ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	0.74	I	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.7		ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-11S

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310352	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 11:50

Field ID: DMW-1

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310353	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	6.2		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	83		ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	49		ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	7.9	I	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	110		ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	53		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	190		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	18		ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	52		ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	230		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	300		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	23		ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	7.6		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.3	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	1.9		ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	2.7		ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	9.0		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	96		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	21		ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	270		ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	620		ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DMW-1

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310353	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 10:56

Field ID: DEPMW-1D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310354	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.2	I	ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	2.1	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	0.83	I	ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	6.0	I	ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	2.2	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	5.6	I	ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	12		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-1D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310354	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 09:18

Field ID: DEPMW-2D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310355	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.3	I	ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.3	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	2.9	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	1.3	I	ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	5.7	I	ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	2.7	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	6.8	I	ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	13		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-2D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310355	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 10:37

Field ID: DEPMW-3D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310356	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.42	I	ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.0	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	5.5	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	2.2	I	ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	15		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	3.5	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	6.1	I	ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	20		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.9	I	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	62	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.6	I	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	8.0	UJ	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	8.0	UJ	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-3D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310356	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample. Some MDLs are elevated due to required dilution of sample matrix. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 13:39

Field ID: DEPMW-4D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310357	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.8		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.0	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	3.2	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	21		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	8.0	I	ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	6.3	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	100		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	9.0		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	3.1	I	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	3.5		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.5	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	11		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	39		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-4D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310357	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonfluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 15:34

Field ID: DEPMW-5D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310358	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	7.8		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.4	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	3.6	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	28		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	13		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	6.3	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	97		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	12		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	4.1		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.4	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	17		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	67		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	I	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	21	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-5D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310358	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 17:33

Field ID: DEPMW-6D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310359	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.4		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.1	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	6.4	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	27		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	14		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	7.1	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	120		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	16		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	4.1		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.6	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	15		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	32		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.56	I	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	40	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	5.8	I	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DEPMW-6D

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310359	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 13:56

Field ID: Well 1

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310360	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	23		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	5.3	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	8.9		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	4.1	I	ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	5.8	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	86		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	4.5	I	ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	17		ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	1.1	I	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	13		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	12		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: Well 1

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310360	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 13:41

Field ID: Well 4

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310361	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	13		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	12	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	5.4	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	11		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	11		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	12		ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	79		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	14		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	3.4	I	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	2.1		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.96	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	5.6		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	12		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: Well 4

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310361	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 13:40

Field ID: Well 10

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310362	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	7.3		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	12	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	15		ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	20		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	26		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	9.6		ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	77		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	35		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	2.5		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	5.7		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	20		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.90	I	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	52	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	19		ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: Well 10

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310362	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 14:16

Field ID: Well 11

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310394	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	4.0	I	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	3.1	I	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: Well 11

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310394	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 08:30

Field ID: Well 12

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310395	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	15		ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	83		ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	16	I	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	130		ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	290		ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	210		ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	11		ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	78		ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	1.6E+03		ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	280		ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.8	I	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	23		ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	11		ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	2.4		ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	1.0	I	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	21		ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	550		ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	19		ng/L	P410908	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.2E+03		ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	550		ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: Well 12

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310395	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 11:05

Field ID: DUP-MW-1W

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310396	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	5.6		ng/L	P411043	
		Perfluorobutanoic acid (PFBA)**	150		ng/L	P411043	
		Perfluorodecanoic acid (PFDA)**	16		ng/L	P411043	
		Perfluorododecanoic acid (PFDoA)**	2.2	I	ng/L	P411043	
		Perfluoroheptanoic acid (PFHpA)**	250		ng/L	P411043	
		Perfluorohexanesulfonic acid (PFHxS)**	11		ng/L	P411043	
		Perfluorohexanoic acid (PFHxA)**	350		ng/L	P411043	
		Perfluorononanoic acid (PFNA)**	11		ng/L	P411043	
		Perfluorooctanoic acid (PFOA)**	64		ng/L	P411043	
		Perfluorooctanesulfonic acid (PFOS)**	35		ng/L	P411043	
		Perfluoropentanoic acid (PFPeA)**	680		ng/L	P411043	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411043	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411043	
		Perfluoroundecanoic acid (PFUnA)**	4.2	I	ng/L	P411043	
		Perfluoropentanesulfonic acid (PFPeS)**	1.8		ng/L	P411043	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.2	I	ng/L	P411043	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411043	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411043	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411043	
		Perfluoro-1-butane sulfonamide (FBSA)**	13		ng/L	P411043	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	6.1		ng/L	P411043	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411043	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411043	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411043	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	3.1	I	ng/L	P411043	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.1E+03		ng/L	P411043	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	74		ng/L	P411043	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411043	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411043	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411043	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411043	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411043	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411043	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411043	

Field ID: DUP-MW-1W

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310396	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411043	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411043	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFPeA could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 15:34

Field ID: DUP-DEPMW-5D

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310397	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	7.7		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.6	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	4.0	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	29		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	12		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	6.3	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	110		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	12		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	4.1		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.3	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	19		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	76		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.46	I	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	22	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DUP-DEPMW-5D

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310397	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 17:33

Field ID: DUP-DEPMW-6D

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310398	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.3		ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.4	I	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	6.8	I	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	23		ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	15		ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	6.9	I	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	140		ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	18		ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	4.1		ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.4	I	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	16		ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	32		ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.69	I	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	33	I	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	6.4	I	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: DUP-DEPMW-6D

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310398	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/01/2022 12:13

Field ID: EB-PP-1

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310399	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410779	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410779	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410779	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410779	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410779	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410779	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410779	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410779	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410779	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410779	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410779	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410779	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410779	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410779	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410779	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410779	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410779	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410779	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410779	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410779	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410779	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410779	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410779	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410779	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410779	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410779	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410779	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410779	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410779	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410779	RPD
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410779	

Field ID: EB-PP-1

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310399	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410779	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410779	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for 6:2 FTS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 16:13

Field ID: EB-PP-2

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310400	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: EB-PP-2

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310400	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 16:13

Field ID: EB-PP-2

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310393	EPA 8270E	Acenaphthene	0.024	U	ug/L	P410770	
		Acenaphthylene	0.024	U	ug/L	P410770	
		Anthracene	0.024	U	ug/L	P410770	
		Benzo(a)anthracene	0.024	U	ug/L	P410770	
		Benzo(a)pyrene	0.024	U	ug/L	P410770	
		Benzo(b)fluoranthene	0.024	U	ug/L	P410770	
		Benzo(k)fluoranthene	0.024	U	ug/L	P410770	
		Benzo(g,h,i)perylene	0.024	U	ug/L	P410770	
		Chrysene	0.024	U	ug/L	P410770	
		Dibenzo(a,h)anthracene	0.024	U	ug/L	P410770	
		Fluoranthene	0.024	U	ug/L	P410770	
		Fluorene	0.024	U	ug/L	P410770	
		Indeno(1,2,3-cd)pyrene	0.024	U	ug/L	P410770	
		2-Methylnaphthalene	0.024	U	ug/L	P410770	
		Naphthalene	0.048	U	ug/L	P410770	
		Phenanthrene	0.024	U	ug/L	P410770	
		Pyrene	0.024	U	ug/L	P410770	
		Biphenyl**	0.024	U	ug/L	P410770	
		Dibenzothiophene**	0.024	U	ug/L	P410770	
		2,6-Dimethylnaphthalene**	0.024	U	ug/L	P410770	
		1-Methylnaphthalene	0.024	U	ug/L	P410770	
		1-Methylphenanthrene**	0.024	UJ	ug/L	P410770	LCS
		2,3,5-Trimethylnaphthalene**	0.024	U	ug/L	P410770	
2310402	EPA 8260D	Benzene	0.20	U	ug/L	P410836	
		Bromodichloromethane	0.20	U	ug/L	P410836	
		Bromoform	0.50	U	ug/L	P410836	
		Bromomethane	0.50	U	ug/L	P410836	
		2-Butanone	3.0	U	ug/L	P410836	
		Carbon tetrachloride	0.20	U	ug/L	P410836	
		Chlorobenzene	0.20	U	ug/L	P410836	
		Chloroethane	0.50	U	ug/L	P410836	
		Chloroform	1.6		ug/L	P410836	
		Chloromethane	0.50	U	ug/L	P410836	
		Dibromochloromethane	0.20	U	ug/L	P410836	
		1,2-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,3-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,4-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,1-Dichloroethane	0.20	U	ug/L	P410836	
		1,2-Dichloroethane	0.20	U	ug/L	P410836	
		1,1-Dichloroethene	0.20	U	ug/L	P410836	
		cis-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		trans-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		1,2-Dichloropropane	0.20	U	ug/L	P410836	
cis-1,3-Dichloropropene	0.50	U	ug/L	P410836			

Field ID: EB-PP-2

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310402	EPA 8260D	trans-1,3-Dichloropropene	0.50	U	ug/L	P410836	
		Ethylbenzene	0.20	U	ug/L	P410836	
		Methyl-t-butyl ether	0.20	U	ug/L	P410836	
		Methylene chloride	1.0	U	ug/L	P410836	
		1,1,2,2-Tetrachloroethane	0.20	U	ug/L	P410836	
		Tetrachloroethene	0.20	U	ug/L	P410836	
		Toluene	0.50	U	ug/L	P410836	
		1,1,1-Trichloroethane	0.20	U	ug/L	P410836	
		1,1,2-Trichloroethane	0.20	U	ug/L	P410836	
		Trichloroethene	0.20	U	ug/L	P410836	
		Trichlorofluoromethane	0.20	U	ug/L	P410836	
		Vinyl chloride	0.20	U	ug/L	P410836	
		o-Xylene	0.50	U	ug/L	P410836	
		m,p-Xylene	0.50	U	ug/L	P410836	

Ref. Method and Comment:

EPA 8270E: No sample available for matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8260D: Results were confirmed with re-analysis.

Sample Location: Miami Dade College Fire Training Facility

Collection Date/Time: 03/02/2022 15:32

Field ID: FRB-DEPMW-5D

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310401	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: FRB-DEPMW-5D

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310401	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: ;Trip Blank

Collection Date/Time: 03/01/2022 08:30

Field ID: ;00079123-TB 11-MAY-2021

Matrix: W-TRIP-BLK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310403	EPA 8260D	Benzene	0.20	U	ug/L	P410836	
		Bromodichloromethane	0.20	U	ug/L	P410836	
		Bromoform	0.50	U	ug/L	P410836	
		Bromomethane	0.50	U	ug/L	P410836	
		2-Butanone	3.0	U	ug/L	P410836	
		Carbon tetrachloride	0.20	U	ug/L	P410836	
		Chlorobenzene	0.20	U	ug/L	P410836	
		Chloroethane	0.50	U	ug/L	P410836	
		Chloroform	0.20	U	ug/L	P410836	
		Chloromethane	0.50	U	ug/L	P410836	
		Dibromochloromethane	0.20	U	ug/L	P410836	
		1,2-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,3-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,4-Dichlorobenzene	0.50	U	ug/L	P410836	
		1,1-Dichloroethane	0.20	U	ug/L	P410836	
		1,2-Dichloroethane	0.20	U	ug/L	P410836	
		1,1-Dichloroethene	0.20	U	ug/L	P410836	
		cis-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		trans-1,2-Dichloroethene	0.20	U	ug/L	P410836	
		1,2-Dichloropropane	0.20	U	ug/L	P410836	
		cis-1,3-Dichloropropene	0.50	U	ug/L	P410836	
		trans-1,3-Dichloropropene	0.50	U	ug/L	P410836	
		Ethylbenzene	0.20	U	ug/L	P410836	
		Methyl-t-butyl ether	0.20	U	ug/L	P410836	
		Methylene chloride	1.0	U	ug/L	P410836	
		1,1,2,2-Tetrachloroethane	0.20	U	ug/L	P410836	
		Tetrachloroethene	0.20	U	ug/L	P410836	
		Toluene	0.50	U	ug/L	P410836	
		1,1,1-Trichloroethane	0.20	U	ug/L	P410836	
		1,1,2-Trichloroethane	0.20	U	ug/L	P410836	
		Trichloroethene	0.20	U	ug/L	P410836	
		Trichlorofluoromethane	0.20	U	ug/L	P410836	
		Vinyl chloride	0.20	U	ug/L	P410836	
		o-Xylene	0.50	U	ug/L	P410836	
		m,p-Xylene	0.50	U	ug/L	P410836	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P410779

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P410779

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3
Batch ID: P410908

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P410908

Component	Result	Code	Units
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3
Batch ID: P411043

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P411043

Component	Result	Code	Units
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: EPA 8260D
Batch ID: P410836

Component	Result	Code	Units
1,1-Dichloroethane	0.20	U	ug/L
1,1-Dichloroethene	0.20	U	ug/L
1,1,1-Trichloroethane	0.20	U	ug/L
1,1,2-Trichloroethane	0.20	U	ug/L
1,1,2,2-Tetrachloroethane	0.20	U	ug/L
1,2-Dichlorobenzene	0.50	U	ug/L
1,2-Dichloroethane	0.20	U	ug/L
1,2-Dichloropropane	0.20	U	ug/L
1,3-Dichlorobenzene	0.50	U	ug/L
1,4-Dichlorobenzene	0.50	U	ug/L
2-Butanone	3.0	U	ug/L
Benzene	0.20	U	ug/L
Bromodichloromethane	0.20	U	ug/L
Bromoform	0.50	U	ug/L
Bromomethane	0.50	U	ug/L
Carbon tetrachloride	0.20	U	ug/L
Chlorobenzene	0.20	U	ug/L
Chloroethane	0.50	U	ug/L
Chloroform	0.20	U	ug/L
Chloromethane	0.50	U	ug/L
cis-1,2-Dichloroethene	0.20	U	ug/L
cis-1,3-Dichloropropene	0.50	U	ug/L
Dibromochloromethane	0.20	U	ug/L
Ethylbenzene	0.20	U	ug/L
m,p-Xylene	0.50	U	ug/L
Methyl-t-butyl ether	0.20	U	ug/L
Methylene chloride	1.0	U	ug/L
o-Xylene	0.50	U	ug/L
Tetrachloroethene	0.20	U	ug/L
Toluene	0.50	U	ug/L
trans-1,2-Dichloroethene	0.20	U	ug/L
trans-1,3-Dichloropropene	0.50	U	ug/L
Trichloroethene	0.20	U	ug/L
Trichlorofluoromethane	0.20	U	ug/L
Vinyl chloride	0.20	U	ug/L

Reference Method: EPA 8270E
Batch ID: P410770

Component	Result	Code	Units
1-Methylnaphthalene	0.025	U	ug/L
1-Methylphenanthrene	0.025	U	ug/L
2-Methylnaphthalene	0.025	U	ug/L
2,3,5-Trimethylnaphthalene	0.025	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P410770

Component	Result	Code	Units
2,6-Dimethylnaphthalene	0.025	U	ug/L
Acenaphthene	0.025	U	ug/L
Acenaphthylene	0.025	U	ug/L
Anthracene	0.025	U	ug/L
Benzo(a)anthracene	0.025	U	ug/L
Benzo(a)pyrene	0.025	U	ug/L
Benzo(b)fluoranthene	0.025	U	ug/L
Benzo(g,h,i)perylene	0.025	U	ug/L
Benzo(k)fluoranthene	0.025	U	ug/L
Biphenyl	0.025	U	ug/L
Chrysene	0.025	U	ug/L
Dibenzo(a,h)anthracene	0.025	U	ug/L
Dibenzothiophene	0.025	U	ug/L
Fluoranthene	0.025	U	ug/L
Fluorene	0.025	U	ug/L
Indeno(1,2,3-cd)pyrene	0.025	U	ug/L
Naphthalene	0.050	U	ug/L
Phenanthrene	0.025	U	ug/L
Pyrene	0.025	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	127		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	157		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	130		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	159		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	156		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	104		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	136		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	121		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	125		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	139		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	141		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	148		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	144		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	117		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	156		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	152		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	133		P	30 - 160
Perfluorobutanoic acid (PFBA)	128		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	136		P	30 - 160
Perfluorodecanoic acid (PFDA)	116		P	30 - 160
Perfluorododecanoic acid (PFDoA)	119		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	105		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	142		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	125		P	30 - 160
Perfluorohexanoic acid (PFHxA)	132		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	135		P	30 - 160
Perfluorononanoic acid (PFNA)	134		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	116		P	30 - 160
Perfluorooctanoic acid (PFOA)	137		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	143		P	30 - 160
Perfluoropentanoic acid (PFPeA)	156		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	134		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	107		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	142		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	100		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410779

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	123		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	159		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	125		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	150		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	159		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	153		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	131		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	144		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	124		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	142		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	126		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P410779

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	133		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	146		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	154		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	121		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	153		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	158		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	145		P	30 - 160
Perfluorobutanoic acid (PFBA)	135		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	128		P	30 - 160
Perfluorodecanoic acid (PFDA)	118		P	30 - 160
Perfluorododecanoic acid (PFDoA)	104		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	103		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	150		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	126		P	30 - 160
Perfluorohexanoic acid (PFHxA)	143		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	132		P	30 - 160
Perfluorononanoic acid (PFNA)	102		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	129		P	30 - 160
Perfluorooctanoic acid (PFOA)	144		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	155		P	30 - 160
Perfluoropentanoic acid (PFPeA)	159		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	151		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	125		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	156		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	148		P	30 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P410908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.5		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.8		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.3		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	122		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	127		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.8		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	90.4		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	91.6		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	153		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	156		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	156		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	100		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	112		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	85.2		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	106		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	135		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	101		P	30 - 160
Perfluorobutanoic acid (PFBA)	94.3		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	105		P	30 - 160
Perfluorodecanoic acid (PFDA)	90.1		P	30 - 160
Perfluorododecanoic acid (PFDoA)	93.1		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P410908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	77.4		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	98.7		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.5		P	30 - 160
Perfluorohexanoic acid (PFHxA)	120		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	98.0		P	30 - 160
Perfluorononanoic acid (PFNA)	73.4		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	94.8		P	30 - 160
Perfluorooctanoic acid (PFOA)	110		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	116		P	30 - 160
Perfluoropentanoic acid (PFPeA)	126		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	114		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	84.8		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	148		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	134		P	30 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P411043

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	78.6		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.3		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	84.7		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.1		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	117		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	103		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.3		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	77.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.3		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	95.8		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	156		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	145		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	97.0		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	106		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.2		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	107		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	127		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	100		P	30 - 160
Perfluorobutanoic acid (PFBA)	91.3		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	89.9		P	30 - 160
Perfluorodecanoic acid (PFDA)	111		P	30 - 160
Perfluorododecanoic acid (PFDoA)	82.1		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	73.9		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	88.3		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.4		P	30 - 160
Perfluorohexanoic acid (PFHxA)	101		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	95.4		P	30 - 160
Perfluorononanoic acid (PFNA)	70.7		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	92.0		P	30 - 160
Perfluorooctanoic acid (PFOA)	115		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	106		P	30 - 160
Perfluoropentanoic acid (PFPeA)	98.1		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	86.9		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P411043

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluorotetradecanoic acid (PFTeA)	116		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	140		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	126		P	30 - 160

Reference Method: EPA 8260D
Batch ID: P410836

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1,1-Dichloroethane	103	110	P/P	70 - 130
1,1-Dichloroethene	96.2	103	P/P	70 - 130
1,1,1-Trichloroethane	99.4	106	P/P	70 - 130
1,1,2-Trichloroethane	99.2	106	P/P	70 - 130
1,1,2,2-Tetrachloroethane	93.2	97.2	P/P	60 - 140
1,2-Dichlorobenzene	89.0	97.2	P/P	70 - 130
1,2-Dichloroethane	107	112	P/P	70 - 130
1,2-Dichloropropane	102	109	P/P	70 - 130
1,3-Dichlorobenzene	88.5	96.7	P/P	70 - 130
1,4-Dichlorobenzene	88.1	96.6	P/P	70 - 130
2-Butanone	109	113	P/P	60 - 140
Benzene	98.6	105	P/P	70 - 130
Bromodichloromethane	103	108	P/P	70 - 130
Bromoform	96.7	102	P/P	60 - 140
Bromomethane	98.4	108	P/P	60 - 140
Carbon tetrachloride	101	107	P/P	70 - 130
Chlorobenzene	94.8	103	P/P	70 - 130
Chloroethane	104	110	P/P	60 - 140
Chloroform	102	109	P/P	70 - 130
Chloromethane	100	106	P/P	60 - 140
cis-1,2-Dichloroethene	97.4	104	P/P	70 - 130
cis-1,3-Dichloropropene	99.2	104	P/P	60 - 140
Dibromochloromethane	98.2	105	P/P	60 - 140
Ethylbenzene	94.9	103	P/P	70 - 130
m,p-Xylene	97.8	106	P/P	70 - 130
Methyl-t-butyl ether	92.4	99.1	P/P	60 - 140
Methylene chloride	99.5	106	P/P	70 - 130
o-Xylene	96.2	104	P/P	70 - 130
Tetrachloroethene	92.7	101	P/P	70 - 130
Toluene	100	107	P/P	70 - 130
trans-1,2-Dichloroethene	97.2	104	P/P	70 - 130
trans-1,3-Dichloropropene	98.2	105	P/P	60 - 140
Trichloroethene	100	109	P/P	70 - 130
Trichlorofluoromethane	104	110	P/P	60 - 140
Vinyl chloride	102	110	P/P	60 - 140

Reference Method: EPA 8270E
Batch ID: P410770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1-Methylnaphthalene	95.8	104	P/P	50 - 130
1-Methylphenanthrene	105	139	P/F	50 - 130
2-Methylnaphthalene	95.4	105	P/P	50 - 130
2,3,5-Trimethylnaphthalene	100	113	P/P	50 - 130

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P410770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,6-Dimethylnaphthalene	97.8	109	P/P	50 - 130
Acenaphthene	98.2	111	P/P	50 - 130
Acenaphthylene	99.6	110	P/P	50 - 130
Anthracene	104	117	P/P	50 - 130
Benzo(a)anthracene	102	117	P/P	50 - 130
Benzo(a)pyrene	105	114	P/P	50 - 130
Benzo(b)fluoranthene	88.4	98.8	P/P	50 - 130
Benzo(g,h,i)perylene	99.8	109	P/P	50 - 130
Benzo(k)fluoranthene	95.4	98.0	P/P	50 - 130
Biphenyl	99.6	111	P/P	50 - 130
Chrysene	99.6	114	P/P	50 - 130
Dibenzo(a,h)anthracene	90.8	97.0	P/P	50 - 130
Dibenzothiophene	99.6	115	P/P	50 - 130
Fluoranthene	105	118	P/P	50 - 130
Fluorene	108	122	P/P	50 - 130
Indeno(1,2,3-cd)pyrene	92.2	98.2	P/P	50 - 130
Naphthalene	92.4	103	P/P	50 - 130
Phenanthrene	107	126	P/P	50 - 130
Pyrene	113	130	P/P	50 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310325	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	80.5	75.1	P/P	30 - 160
2310325	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	134	136	P/P	30 - 160
2310325	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	126	121	P/P	30 - 160
2310325	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	157	144	P/P	30 - 160
2310325	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	155	159	P/P	30 - 160
2310325	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	137	125	P/P	30 - 160
2310325	Hexafluoropropylene oxide dimer acid (HFPO-DA)	111	93.1	P/P	30 - 160
2310325	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	114	118	P/P	30 - 160
2310325	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	114	112	P/P	30 - 160
2310325	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	147	153	P/P	30 - 160
2310325	Perfluoro-1-butane sulfonamide (FBSA)	156	156	P/P	30 - 160
2310325	Perfluoro-1-hexane sulfonamide (FHxSA)	156	156	P/P	30 - 160
2310325	Perfluoro-1-octane sulfonamide (FOSA)	134	128	P/P	30 - 160
2310325	Perfluoro-3-methoxypropanoic acid (PFMPA)	144	144	P/P	30 - 160
2310325	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	105	114	P/P	30 - 160
2310325	Perfluoro-4-methoxybutanoic acid (PFMBA)	139	130	P/P	30 - 160
2310325	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	156	148	P/P	30 - 160
2310325	Perfluorobutanesulfonic acid (PFBS)	137	121	P/P	30 - 160
2310325	Perfluorobutanoic acid (PFBA)	118	121	P/P	30 - 160
2310325	Perfluorodecanesulfonic acid (PFDS)	94.1	79.4	P/P	30 - 160
2310325	Perfluorodecanoic acid (PFDA)	103	107	P/P	30 - 160
2310325	Perfluorododecanoic acid (PFDoA)	87.8	97.3	P/P	30 - 160
2310325	Perfluoroheptanesulfonic acid (PFHpS)	93.6	96.8	P/P	30 - 160
2310325	Perfluoroheptanoic acid (PFHpA)	118	130	P/P	30 - 160
2310325	Perfluorohexanesulfonic acid (PFHxS)	105	115	P/P	30 - 160
2310325	Perfluorohexanoic acid (PFHxA)	132	137	P/P	30 - 160
2310325	Perfluorononanesulfonic acid (PFNS)	114	105	P/P	30 - 160
2310325	Perfluorononanoic acid (PFNA)	96.7	91.5	P/P	30 - 160
2310325	Perfluorooctanesulfonic acid (PFOS)	110	112	P/P	30 - 160
2310325	Perfluorooctanoic acid (PFOA)	156	153	P/P	30 - 160
2310325	Perfluoropentanesulfonic acid (PFPeS)	151	133	P/P	30 - 160
2310325	Perfluoropentanoic acid (PFPeA)	157	137	P/P	30 - 160
2310325	Perfluoropropanesulfonic acid (PFPrS)	129	110	P/P	30 - 160
2310325	Perfluorotetradecanoic acid (PFTeA)	119	116	P/P	30 - 160
2310325	Perfluorotridecanoic acid (PFTriA)	145	152	P/P	30 - 160
2310325	Perfluoroundecanoic acid (PFUnA)	98.9	117	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410779

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310356	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	89.2	72.6	P/P	30 - 160
2310356	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	140	122	P/P	30 - 160
2310356	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	150	152	P/P	30 - 160
2310356	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158	158	P/P	30 - 160
2310356	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	147	134	P/P	30 - 160
2310356	Hexafluoropropylene oxide dimer acid (HFPO-DA)	121	132	P/P	30 - 160
2310356	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	124	131	P/P	30 - 160
2310356	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	140	123	P/P	30 - 160
2310356	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	132	139	P/P	30 - 160
2310356	Perfluoro-1-butane sulfonamide (FBSA)	154	159	P/P	30 - 160
2310356	Perfluoro-1-hexane sulfonamide (FHxSA)	151	152	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410779

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310356	Perfluoro-1-octane sulfonamide (FOSA)	136	139	P/P	30 - 160
2310356	Perfluoro-3-methoxypropanoic acid (PFMPA)	109	62.4	P/P	30 - 160
2310356	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	124	118	P/P	30 - 160
2310356	Perfluoro-4-methoxybutanoic acid (PFMBA)	168	201	F/F	30 - 160
2310356	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	158	158	P/P	30 - 160
2310356	Perfluorobutanesulfonic acid (PFBS)	131	152	P/P	30 - 160
2310356	Perfluorobutanoic acid (PFBA)	112	123	P/P	30 - 160
2310356	Perfluorodecanesulfonic acid (PFDS)	103	81.7	P/P	30 - 160
2310356	Perfluorodecanoic acid (PFDA)	112	123	P/P	30 - 160
2310356	Perfluorododecanoic acid (PFDoA)	114	116	P/P	30 - 160
2310356	Perfluoroheptanesulfonic acid (PFHpS)	102	105	P/P	30 - 160
2310356	Perfluoroheptanoic acid (PFHpA)	126	153	P/P	30 - 160
2310356	Perfluorohexanesulfonic acid (PFHxS)	130	118	P/P	30 - 160
2310356	Perfluorohexanoic acid (PFHxA)	152	118	P/P	30 - 160
2310356	Perfluorononanesulfonic acid (PFNS)	110	114	P/P	30 - 160
2310356	Perfluorononanoic acid (PFNA)	126	125	P/P	30 - 160
2310356	Perfluorooctanesulfonic acid (PFOS)	126	118	P/P	30 - 160
2310356	Perfluorooctanoic acid (PFOA)	134	120	P/P	30 - 160
2310356	Perfluoropentanesulfonic acid (PFPeS)	149	156	P/P	30 - 160
2310356	Perfluoropentanoic acid (PFPeA)	98.2	118	P/P	30 - 160
2310356	Perfluoropropanesulfonic acid (PFPrS)	145	125	P/P	30 - 160
2310356	Perfluorotetradecanoic acid (PFTeA)	142	140	P/P	30 - 160
2310356	Perfluorotridecanoic acid (PFTriA)	159	158	P/P	30 - 160
2310356	Perfluoroundecanoic acid (PFUnA)	116	138	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310433	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	77.4	87.1	P/P	30 - 160
2310433	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.3	124	P/P	30 - 160
2310433	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	106	108	P/P	30 - 160
2310433	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	132	117	P/P	30 - 160
2310433	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	121	129	P/P	30 - 160
2310433	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	112	112	P/P	30 - 160
2310433	Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.9	98.1	P/P	30 - 160
2310433	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.5	112	P/P	30 - 160
2310433	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	72.6	84.1	P/P	30 - 160
2310433	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	116	108	P/P	30 - 160
2310433	Perfluoro-1-butane sulfonamide (FBSA)	134	148	P/P	30 - 160
2310433	Perfluoro-1-hexane sulfonamide (FHxSA)	137	142	P/P	30 - 160
2310433	Perfluoro-1-octane sulfonamide (FOSA)	105	111	P/P	30 - 160
2310433	Perfluoro-3-methoxypropanoic acid (PFMPA)	121	120	P/P	30 - 160
2310433	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	96.8	84.9	P/P	30 - 160
2310433	Perfluoro-4-methoxybutanoic acid (PFMBA)	116	120	P/P	30 - 160
2310433	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	117	124	P/P	30 - 160
2310433	Perfluorobutanesulfonic acid (PFBS)	92.6	103	P/P	30 - 160
2310433	Perfluorobutanoic acid (PFBA)	112	120	P/P	30 - 160
2310433	Perfluorodecanesulfonic acid (PFDS)	77.2	97.4	P/P	30 - 160
2310433	Perfluorodecanoic acid (PFDA)	92.0	89.1	P/P	30 - 160
2310433	Perfluorododecanoic acid (PFDoA)	98.7	87.4	P/P	30 - 160
2310433	Perfluoroheptanesulfonic acid (PFHpS)	82.4	79.2	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310433	Perfluoroheptanoic acid (PFHpA)	109	145	P/P	30 - 160
2310433	Perfluorohexanesulfonic acid (PFHxS)	105	105	P/P	30 - 160
2310433	Perfluorohexanoic acid (PFHxA)	95.1	101	P/P	30 - 160
2310433	Perfluorononanesulfonic acid (PFNS)	96.0	97.2	P/P	30 - 160
2310433	Perfluorononanoic acid (PFNA)	98.2	111	P/P	30 - 160
2310433	Perfluorooctanoic acid (PFOA)	103	91.2	P/P	30 - 160
2310433	Perfluoropentanesulfonic acid (PFPeS)	107	114	P/P	30 - 160
2310433	Perfluoropentanoic acid (PFPeA)	110	142	P/P	30 - 160
2310433	Perfluoropropanesulfonic acid (PFPrS)	110	124	P/P	30 - 160
2310433	Perfluorotetradecanoic acid (PFTeA)	122	109	P/P	30 - 160
2310433	Perfluorotridecanoic acid (PFTriA)	153	136	P/P	30 - 160
2310433	Perfluoroundecanoic acid (PFUnA)	85.7	92.6	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312036	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	58.2	53.9	P/P	30 - 160
2312036	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	138	P/P	30 - 160
2312036	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	105	89.5	P/P	30 - 160
2312036	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	83.5	P/P	30 - 160
2312036	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	98.3	123	P/P	30 - 160
2312036	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	86.8	90.6	P/P	30 - 160
2312036	Hexafluoropropylene oxide dimer acid (HFPO-DA)	85.8	96.6	P/P	30 - 160
2312036	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	93.9	93.4	P/P	30 - 160
2312036	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	84.7	88.8	P/P	30 - 160
2312036	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	125	119	P/P	30 - 160
2312036	Perfluoro-1-butane sulfonamide (FBSA)	138	134	P/P	30 - 160
2312036	Perfluoro-1-hexane sulfonamide (FHxSA)	125	116	P/P	30 - 160
2312036	Perfluoro-1-octane sulfonamide (FOSA)	108	97.0	P/P	30 - 160
2312036	Perfluoro-3-methoxypropanoic acid (PFMPA)	122	119	P/P	30 - 160
2312036	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	86.7	84.9	P/P	30 - 160
2312036	Perfluoro-4-methoxybutanoic acid (PFMBA)	118	117	P/P	30 - 160
2312036	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	122	110	P/P	30 - 160
2312036	Perfluorobutanesulfonic acid (PFBS)	94.3	84.5	P/P	30 - 160
2312036	Perfluorobutanoic acid (PFBA)	99.2	96.2	P/P	30 - 160
2312036	Perfluorodecanesulfonic acid (PFDS)	60.9	60.9	P/P	30 - 160
2312036	Perfluorodecanoic acid (PFDA)	95.4	88.7	P/P	30 - 160
2312036	Perfluorododecanoic acid (PFDoA)	91.1	108	P/P	30 - 160
2312036	Perfluoroheptanesulfonic acid (PFHpS)	85.0	83.3	P/P	30 - 160
2312036	Perfluoroheptanoic acid (PFHpA)	96.9	114	P/P	30 - 160
2312036	Perfluorohexanesulfonic acid (PFHxS)	97.2	99.2	P/P	30 - 160
2312036	Perfluorohexanoic acid (PFHxA)	52.8	37.1	P/P	30 - 160
2312036	Perfluorononanesulfonic acid (PFNS)	81.5	80.9	P/P	30 - 160
2312036	Perfluorononanoic acid (PFNA)	94.9	86.9	P/P	30 - 160
2312036	Perfluorooctanesulfonic acid (PFOS)	95.3	97.6	P/P	30 - 160
2312036	Perfluorooctanoic acid (PFOA)	129	128	P/P	30 - 160
2312036	Perfluoropentanesulfonic acid (PFPeS)	120	109	P/P	30 - 160
2312036	Perfluoropropanesulfonic acid (PFPrS)	100	82.4	P/P	30 - 160
2312036	Perfluorotetradecanoic acid (PFTeA)	123	107	P/P	30 - 160
2312036	Perfluorotridecanoic acid (PFTriA)	126	124	P/P	30 - 160
2312036	Perfluoroundecanoic acid (PFUnA)	87.8	91.5	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8260D
 Batch ID: P410836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309757	1,1-Dichloroethane	99.4	105	P/P	70 - 130
2309757	1,1-Dichloroethene	93.2	97.8	P/P	70 - 130
2309757	1,1,1-Trichloroethane	95.8	100	P/P	70 - 130
2309757	1,1,2-Trichloroethane	95.2	100	P/P	70 - 130
2309757	1,1,2,2-Tetrachloroethane	95.2	99.6	P/P	60 - 140
2309757	1,2-Dichlorobenzene	86.1	91.2	P/P	70 - 130
2309757	1,2-Dichloroethane	102	107	P/P	70 - 130
2309757	1,2-Dichloropropane	99.7	105	P/P	70 - 130
2309757	1,3-Dichlorobenzene	85.6	90.1	P/P	70 - 130
2309757	1,4-Dichlorobenzene	85.3	89.8	P/P	70 - 130
2309757	2-Butanone	107	110	P/P	60 - 140
2309757	Benzene	95.5	100	P/P	70 - 130
2309757	Bromodichloromethane	97.8	103	P/P	70 - 130
2309757	Bromoform	91.7	96.6	P/P	60 - 140
2309757	Bromomethane	95.0	101	P/P	60 - 140
2309757	Carbon tetrachloride	96.6	101	P/P	70 - 130
2309757	Chlorobenzene	91.4	96.4	P/P	70 - 130
2309757	Chloroethane	104	110	P/P	60 - 140
2309757	Chloroform	98.2	103	P/P	70 - 130
2309757	Chloromethane	98.0	104	P/P	60 - 140
2309757	cis-1,2-Dichloroethene	95.0	99.5	P/P	70 - 130
2309757	cis-1,3-Dichloropropene	96.7	102	P/P	60 - 140
2309757	Dibromochloromethane	93.3	98.3	P/P	60 - 140
2309757	Ethylbenzene	91.3	96.4	P/P	70 - 130
2309757	m,p-Xylene	94.0	98.7	P/P	70 - 130
2309757	Methyl-t-butyl ether	91.6	96.8	P/P	60 - 140
2309757	Methylene chloride	94.2	100	P/P	70 - 130
2309757	o-Xylene	92.2	97.5	P/P	70 - 130
2309757	Tetrachloroethene	89.2	93.1	P/P	70 - 130
2309757	Toluene	96.8	102	P/P	70 - 130
2309757	trans-1,2-Dichloroethene	94.0	98.7	P/P	70 - 130
2309757	trans-1,3-Dichloropropene	94.7	99.0	P/P	60 - 140
2309757	Trichloroethene	93.5	98.3	P/P	70 - 130
2309757	Trichlorofluoromethane	98.4	103	P/P	60 - 140
2309757	Vinyl chloride	100	105	P/P	60 - 140

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310325	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.94	Spike	P	0 - 30
2310325	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.04	Spike	P	0 - 30
2310325	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	3.49	Spike	P	0 - 30
2310325	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.64	Spike	P	0 - 30
2310325	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.49	Spike	P	0 - 30
2310325	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	8.62	Spike	P	0 - 30
2310325	Hexafluoropropylene oxide dimer acid (HFPO-DA)	17.9	Spike	P	0 - 30
2310325	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.88	Spike	P	0 - 30
2310325	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.48	Spike	P	0 - 30
2310325	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.06	Spike	P	0 - 30
2310325	Perfluoro-1-butane sulfonamide (FBSA)	0.0639	Spike	P	0 - 30
2310325	Perfluoro-1-hexane sulfonamide (FHxSA)	0.192	Spike	P	0 - 30
2310325	Perfluoro-1-octane sulfonamide (FOSA)	4.28	Spike	P	0 - 30
2310325	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.278	Spike	P	0 - 30
2310325	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	7.93	Spike	P	0 - 30
2310325	Perfluoro-4-methoxybutanoic acid (PFMBA)	6.60	Spike	P	0 - 30
2310325	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	5.53	Spike	P	0 - 30
2310325	Perfluorobutanesulfonic acid (PFBS)	12.4	Spike	P	0 - 30
2310325	Perfluorobutanoic acid (PFBA)	2.76	Spike	P	0 - 30
2310325	Perfluorodecanesulfonic acid (PFDS)	16.9	Spike	P	0 - 30
2310325	Perfluorodecanoic acid (PFDA)	3.14	Spike	P	0 - 30
2310325	Perfluorododecanoic acid (PFDoA)	10.3	Spike	P	0 - 30
2310325	Perfluoroheptanesulfonic acid (PFHpS)	3.36	Spike	P	0 - 30
2310325	Perfluoroheptanoic acid (PFHpA)	9.36	Spike	P	0 - 30
2310325	Perfluorohexanesulfonic acid (PFHxS)	8.93	Spike	P	0 - 30
2310325	Perfluorohexanoic acid (PFHxA)	3.20	Spike	P	0 - 30
2310325	Perfluorononanesulfonic acid (PFNS)	7.58	Spike	P	0 - 30
2310325	Perfluorononanoic acid (PFNA)	5.53	Spike	P	0 - 30
2310325	Perfluorooctanesulfonic acid (PFOS)	1.35	Spike	P	0 - 30
2310325	Perfluorooctanoic acid (PFOA)	1.49	Spike	P	0 - 30
2310325	Perfluoropentanesulfonic acid (PFPeS)	12.7	Spike	P	0 - 30
2310325	Perfluoropentanoic acid (PFPeA)	13.8	Spike	P	0 - 30
2310325	Perfluoropropanesulfonic acid (PFPrS)	15.7	Spike	P	0 - 30
2310325	Perfluorotetradecanoic acid (PFTeA)	2.37	Spike	P	0 - 30
2310325	Perfluorotridecanoic acid (PFTriA)	4.18	Spike	P	0 - 30
2310325	Perfluoroundecanoic acid (PFUnA)	16.8	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P410779

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310356	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	20.5	Spike	P	0 - 30
2310356	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	12.5	Spike	P	0 - 30
2310356	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.13	Spike	P	0 - 30
2310356	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	2.02	Spike	P	0 - 30
2310356	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.317	Spike	P	0 - 30
2310356	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.16	Spike	P	0 - 30
2310356	Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.62	Spike	P	0 - 30
2310356	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.78	Spike	P	0 - 30
2310356	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	12.6	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410779

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310356	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.23	Spike	P	0 - 30
2310356	Perfluoro-1-butane sulfonamide (FBSA)	2.87	Spike	P	0 - 30
2310356	Perfluoro-1-hexane sulfonamide (FHxSA)	0.735	Spike	P	0 - 30
2310356	Perfluoro-1-octane sulfonamide (FOSA)	2.62	Spike	P	0 - 30
2310356	Perfluoro-3-methoxypropanoic acid (PFMPA)	54.0	Spike	F	0 - 30
2310356	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	5.30	Spike	P	0 - 30
2310356	Perfluoro-4-methoxybutanoic acid (PFMBA)	17.9	Spike	P	0 - 30
2310356	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.316	Spike	P	0 - 30
2310356	Perfluorobutanesulfonic acid (PFBS)	14.8	Spike	P	0 - 30
2310356	Perfluorobutanoic acid (PFBA)	7.79	Spike	P	0 - 30
2310356	Perfluorodecanesulfonic acid (PFDS)	23.1	Spike	P	0 - 30
2310356	Perfluorodecanoic acid (PFDA)	9.81	Spike	P	0 - 30
2310356	Perfluorododecanoic acid (PFDoA)	1.04	Spike	P	0 - 30
2310356	Perfluoroheptanesulfonic acid (PFHpS)	2.51	Spike	P	0 - 30
2310356	Perfluoroheptanoic acid (PFHpA)	15.2	Spike	P	0 - 30
2310356	Perfluorohexanesulfonic acid (PFHxS)	9.30	Spike	P	0 - 30
2310356	Perfluorohexanoic acid (PFHxA)	14.6	Spike	P	0 - 30
2310356	Perfluorononanesulfonic acid (PFNS)	3.83	Spike	P	0 - 30
2310356	Perfluorononanoic acid (PFNA)	1.43	Spike	P	0 - 30
2310356	Perfluorooctanesulfonic acid (PFOS)	5.12	Spike	P	0 - 30
2310356	Perfluorooctanoic acid (PFOA)	9.26	Spike	P	0 - 30
2310356	Perfluoropentanesulfonic acid (PFPeS)	4.46	Spike	P	0 - 30
2310356	Perfluoropentanoic acid (PFPeA)	8.40	Spike	P	0 - 30
2310356	Perfluoropropanesulfonic acid (PFPrS)	15.0	Spike	P	0 - 30
2310356	Perfluorotetradecanoic acid (PFTeA)	1.06	Spike	P	0 - 30
2310356	Perfluorotridecanoic acid (PFTriA)	0.821	Spike	P	0 - 30
2310356	Perfluoroundecanoic acid (PFUnA)	16.5	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P410908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310433	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	11.8	Spike	P	0 - 30
2310433	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	23.9	Spike	P	0 - 30
2310433	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.59	Spike	P	0 - 30
2310433	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.7	Spike	P	0 - 30
2310433	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.33	Spike	P	0 - 30
2310433	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.269	Spike	P	0 - 30
2310433	Hexafluoropropylene oxide dimer acid (HFPO-DA)	19.2	Spike	P	0 - 30
2310433	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16.1	Spike	P	0 - 30
2310433	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	14.7	Spike	P	0 - 30
2310433	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.24	Spike	P	0 - 30
2310433	Perfluoro-1-butane sulfonamide (FBSA)	9.65	Spike	P	0 - 30
2310433	Perfluoro-1-hexane sulfonamide (FHxSA)	3.72	Spike	P	0 - 30
2310433	Perfluoro-1-octane sulfonamide (FOSA)	5.93	Spike	P	0 - 30
2310433	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.748	Spike	P	0 - 30
2310433	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	13.1	Spike	P	0 - 30
2310433	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.39	Spike	P	0 - 30
2310433	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	5.15	Spike	P	0 - 30
2310433	Perfluorobutanesulfonic acid (PFBS)	6.64	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310433	Perfluorobutanoic acid (PFBA)	4.37	Spike	P	0 - 30
2310433	Perfluorodecanesulfonic acid (PFDS)	22.1	Spike	P	0 - 30
2310433	Perfluorodecanoic acid (PFDA)	3.20	Spike	P	0 - 30
2310433	Perfluorododecanoic acid (PFDoA)	12.1	Spike	P	0 - 30
2310433	Perfluoroheptanesulfonic acid (PFHpS)	3.61	Spike	P	0 - 30
2310433	Perfluoroheptanoic acid (PFHpA)	16.7	Spike	P	0 - 30
2310433	Perfluorohexanesulfonic acid (PFHxS)	0.412	Spike	P	0 - 30
2310433	Perfluorohexanoic acid (PFHxA)	2.79	Spike	P	0 - 30
2310433	Perfluorononanesulfonic acid (PFNS)	1.24	Spike	P	0 - 30
2310433	Perfluorononanoic acid (PFNA)	11.9	Spike	P	0 - 30
2310433	Perfluorooctanesulfonic acid (PFOS)	1.82	Spike	P	0 - 30
2310433	Perfluorooctanoic acid (PFOA)	4.09	Spike	P	0 - 30
2310433	Perfluoropentanesulfonic acid (PFPeS)	6.09	Spike	P	0 - 30
2310433	Perfluoropentanoic acid (PFPeA)	11.5	Spike	P	0 - 30
2310433	Perfluoropropanesulfonic acid (PFPrS)	12.1	Spike	P	0 - 30
2310433	Perfluorotetradecanoic acid (PFTeA)	11.5	Spike	P	0 - 30
2310433	Perfluorotridecanoic acid (PFTriA)	12.1	Spike	P	0 - 30
2310433	Perfluoroundecanoic acid (PFUnA)	7.74	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P411043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312036	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	7.67	Spike	P	0 - 30
2312036	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	23.0	Spike	P	0 - 30
2312036	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	15.9	Spike	P	0 - 30
2312036	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	23.1	Spike	P	0 - 30
2312036	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	22.1	Spike	P	0 - 30
2312036	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.28	Spike	P	0 - 30
2312036	Hexafluoropropylene oxide dimer acid (HFPO-DA)	11.8	Spike	P	0 - 30
2312036	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.534	Spike	P	0 - 30
2312036	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.73	Spike	P	0 - 30
2312036	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.43	Spike	P	0 - 30
2312036	Perfluoro-1-butane sulfonamide (FBSA)	2.80	Spike	P	0 - 30
2312036	Perfluoro-1-hexane sulfonamide (FHxSA)	7.62	Spike	P	0 - 30
2312036	Perfluoro-1-octane sulfonamide (FOSA)	11.2	Spike	P	0 - 30
2312036	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.15	Spike	P	0 - 30
2312036	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	2.10	Spike	P	0 - 30
2312036	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.768	Spike	P	0 - 30
2312036	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	9.82	Spike	P	0 - 30
2312036	Perfluorobutanesulfonic acid (PFBS)	3.49	Spike	P	0 - 30
2312036	Perfluorobutanoic acid (PFBA)	1.46	Spike	P	0 - 30
2312036	Perfluorodecanesulfonic acid (PFDS)	0.0	Spike	P	0 - 30
2312036	Perfluorodecanoic acid (PFDA)	7.28	Spike	P	0 - 30
2312036	Perfluorododecanoic acid (PFDoA)	17.1	Spike	P	0 - 30
2312036	Perfluoroheptanesulfonic acid (PFHpS)	2.02	Spike	P	0 - 30
2312036	Perfluoroheptanoic acid (PFHpA)	7.45	Spike	P	0 - 30
2312036	Perfluorohexanesulfonic acid (PFHxS)	1.16	Spike	P	0 - 30
2312036	Perfluorohexanoic acid (PFHxA)	5.53	Spike	P	0 - 30
2312036	Perfluorononanesulfonic acid (PFNS)	0.739	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312036	Perfluorononanoic acid (PFNA)	8.80	Spike	P	0 - 30
2312036	Perfluorooctanesulfonic acid (PFOS)	0.876	Spike	P	0 - 30
2312036	Perfluorooctanoic acid (PFOA)	0.416	Spike	P	0 - 30
2312036	Perfluoropentanesulfonic acid (PFPeS)	8.55	Spike	P	0 - 30
2312036	Perfluoropentanoic acid (PFPeA)	5.49	Spike	P	0 - 30
2312036	Perfluoropropanesulfonic acid (PFPrS)	19.4	Spike	P	0 - 30
2312036	Perfluorotetradecanoic acid (PFTeA)	13.7	Spike	P	0 - 30
2312036	Perfluorotridecanoic acid (PFTriA)	1.44	Spike	P	0 - 30
2312036	Perfluoroundecanoic acid (PFUnA)	4.13	Spike	P	0 - 30

Reference Method: EPA 8260D

Batch ID: P410836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309757	1,1-Dichloroethane	5.34	Spike	P	0 - 30
2309757	1,1-Dichloroethene	4.92	Spike	P	0 - 30
2309757	1,1,1-Trichloroethane	4.54	Spike	P	0 - 30
2309757	1,1,2-Trichloroethane	5.02	Spike	P	0 - 30
2309757	1,1,2,2-Tetrachloroethane	4.47	Spike	P	0 - 30
2309757	1,2-Dichlorobenzene	5.75	Spike	P	0 - 30
2309757	1,2-Dichloroethane	4.50	Spike	P	0 - 30
2309757	1,2-Dichloropropane	5.37	Spike	P	0 - 30
2309757	1,3-Dichlorobenzene	5.18	Spike	P	0 - 30
2309757	1,4-Dichlorobenzene	5.08	Spike	P	0 - 30
2309757	2-Butanone	3.19	Spike	P	0 - 40
2309757	Benzene	4.85	Spike	P	0 - 30
2309757	Bromodichloromethane	4.74	Spike	P	0 - 30
2309757	Bromoform	5.15	Spike	P	0 - 30
2309757	Bromomethane	5.62	Spike	P	0 - 40
2309757	Carbon tetrachloride	4.05	Spike	P	0 - 30
2309757	Chlorobenzene	5.32	Spike	P	0 - 30
2309757	Chloroethane	5.93	Spike	P	0 - 40
2309757	Chloroform	4.92	Spike	P	0 - 30
2309757	Chloromethane	6.08	Spike	P	0 - 40
2309757	cis-1,2-Dichloroethene	4.68	Spike	P	0 - 30
2309757	cis-1,3-Dichloropropene	5.04	Spike	P	0 - 30
2309757	Dibromochloromethane	5.22	Spike	P	0 - 30
2309757	Ethylbenzene	5.38	Spike	P	0 - 30
2309757	m,p-Xylene	4.93	Spike	P	0 - 30
2309757	Methyl-t-butyl ether	5.52	Spike	P	0 - 30
2309757	Methylene chloride	6.17	Spike	P	0 - 30
2309757	o-Xylene	5.53	Spike	P	0 - 30
2309757	Tetrachloroethene	4.28	Spike	P	0 - 30
2309757	Toluene	4.74	Spike	P	0 - 30
2309757	trans-1,2-Dichloroethene	4.93	Spike	P	0 - 30
2309757	trans-1,3-Dichloropropene	4.49	Spike	P	0 - 30
2309757	Trichloroethene	5.01	Spike	P	0 - 30
2309757	Trichlorofluoromethane	4.42	Spike	P	0 - 40
2309757	Vinyl chloride	4.97	Spike	P	0 - 40
LFB	1,1-Dichloroethane	6.39	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8260D

Batch ID: P410836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	1,1-Dichloroethene	6.83	LCS	P	0 - 30
LFB	1,1,1-Trichloroethane	6.38	LCS	P	0 - 30
LFB	1,1,2-Trichloroethane	7.10	LCS	P	0 - 30
LFB	1,1,2,2-Tetrachloroethane	4.10	LCS	P	0 - 30
LFB	1,2-Dichlorobenzene	8.80	LCS	P	0 - 30
LFB	1,2-Dichloroethane	4.01	LCS	P	0 - 30
LFB	1,2-Dichloropropane	6.29	LCS	P	0 - 30
LFB	1,3-Dichlorobenzene	8.86	LCS	P	0 - 30
LFB	1,4-Dichlorobenzene	9.26	LCS	P	0 - 30
LFB	2-Butanone	3.38	LCS	P	0 - 40
LFB	Benzene	6.62	LCS	P	0 - 30
LFB	Bromodichloromethane	5.45	LCS	P	0 - 30
LFB	Bromoform	5.58	LCS	P	0 - 30
LFB	Bromomethane	8.89	LCS	P	0 - 40
LFB	Carbon tetrachloride	5.76	LCS	P	0 - 30
LFB	Chlorobenzene	8.10	LCS	P	0 - 30
LFB	Chloroethane	6.26	LCS	P	0 - 40
LFB	Chloroform	6.07	LCS	P	0 - 30
LFB	Chloromethane	6.05	LCS	P	0 - 40
LFB	cis-1,2-Dichloroethene	7.08	LCS	P	0 - 30
LFB	cis-1,3-Dichloropropene	5.06	LCS	P	0 - 30
LFB	Dibromochloromethane	6.65	LCS	P	0 - 30
LFB	Ethylbenzene	8.52	LCS	P	0 - 30
LFB	m,p-Xylene	8.19	LCS	P	0 - 30
LFB	Methyl-t-butyl ether	6.94	LCS	P	0 - 30
LFB	Methylene chloride	6.09	LCS	P	0 - 30
LFB	o-Xylene	8.32	LCS	P	0 - 30
LFB	Tetrachloroethene	8.37	LCS	P	0 - 30
LFB	Toluene	6.38	LCS	P	0 - 30
LFB	trans-1,2-Dichloroethene	6.67	LCS	P	0 - 30
LFB	trans-1,3-Dichloropropene	6.74	LCS	P	0 - 30
LFB	Trichloroethene	7.95	LCS	P	0 - 30
LFB	Trichlorofluoromethane	5.34	LCS	P	0 - 40
LFB	Vinyl chloride	6.89	LCS	P	0 - 40

Reference Method: EPA 8270E

Batch ID: P410770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	1-Methylnaphthalene	7.82	LCS	P	0 - 40
LFB	1-Methylphenanthrene	27.7	LCS	P	0 - 40
LFB	2-Methylnaphthalene	9.96	LCS	P	0 - 40
LFB	2,3,5-Trimethylnaphthalene	12.2	LCS	P	0 - 40
LFB	2,6-Dimethylnaphthalene	10.6	LCS	P	0 - 40
LFB	Acenaphthene	11.9	LCS	P	0 - 40
LFB	Acenaphthylene	9.56	LCS	P	0 - 40
LFB	Anthracene	12.1	LCS	P	0 - 40
LFB	Benzo(a)anthracene	13.8	LCS	P	0 - 40
LFB	Benzo(a)pyrene	8.04	LCS	P	0 - 40
LFB	Benzo(b)fluoranthene	11.1	LCS	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Benzo(g,h,i)perylene	8.63	LCS	P	0 - 40
LFB	Benzo(k)fluoranthene	2.69	LCS	P	0 - 40
LFB	Biphenyl	11.0	LCS	P	0 - 40
LFB	Chrysene	13.8	LCS	P	0 - 40
LFB	Dibenzo(a,h)anthracene	6.60	LCS	P	0 - 40
LFB	Dibenzothiophene	14.2	LCS	P	0 - 40
LFB	Fluoranthene	12.4	LCS	P	0 - 40
LFB	Fluorene	12.2	LCS	P	0 - 40
LFB	Indeno(1,2,3-cd)pyrene	6.30	LCS	P	0 - 40
LFB	Naphthalene	10.8	LCS	P	0 - 40
LFB	Phenanthrene	16.2	LCS	P	0 - 40
LFB	Pyrene	14.2	LCS	P	0 - 40

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2310336
Field Sample ID: DEPMW-1S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	2-Fluorobiphenyl	43.8	P	30 - 150
EPA 8270E	Nitrobenzene-d5	52.4	P	30 - 150
EPA 8270E	Terphenyl-d14	73.7	P	30 - 150

Lab Sample ID: 2310337
Field Sample ID: DEPMW-3S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	2-Fluorobiphenyl	98.0	P	30 - 150
EPA 8270E	Nitrobenzene-d5	105	P	30 - 150
EPA 8270E	Terphenyl-d14	145	P	30 - 150

Lab Sample ID: 2310338
Field Sample ID: DEPMW-5S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	2-Fluorobiphenyl	89.8	P	30 - 150
EPA 8270E	Nitrobenzene-d5	104	P	30 - 150
EPA 8270E	Terphenyl-d14	123	P	30 - 150

Lab Sample ID: 2310339
Field Sample ID: MW-1W

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	58.6	P	30 - 160
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	56.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	73.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	67.5	P	30 - 160

Lab Sample ID: 2310340
Field Sample ID: MW-1E

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	82.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.1	P	30 - 160

Lab Sample ID: 2310341
Field Sample ID: MW-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160

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Lab Sample ID: 2310341
Field Sample ID: MW-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.6	P	30 - 160

Lab Sample ID: 2310342
Field Sample ID: MW-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.3	P	30 - 160

Lab Sample ID: 2310343
Field Sample ID: DEPMW-1S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	47.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.8	P	30 - 160

Lab Sample ID: 2310344
Field Sample ID: DEPMW-2S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.2	P	30 - 160

Lab Sample ID: 2310345
Field Sample ID: DEPMW-3S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	98.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	103	P	30 - 160

Lab Sample ID: 2310346
Field Sample ID: DEPMW-4S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	58.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	72.5	P	30 - 160

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Lab Sample ID: 2310347
Field Sample ID: DEPMW-5S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	50.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.1	P	30 - 160

Lab Sample ID: 2310348
Field Sample ID: DEPMW-6S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	49.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.1	P	30 - 160

Lab Sample ID: 2310349
Field Sample ID: DEPMW-7S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	47.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.5	P	30 - 160

Lab Sample ID: 2310350
Field Sample ID: DEPMW-9S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	58.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	82.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.7	P	30 - 160

Lab Sample ID: 2310351
Field Sample ID: DEPMW-10S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	65.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	80.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	149	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.5	P	30 - 160

Lab Sample ID: 2310352
Field Sample ID: DEPMW-11S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	63.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.3	P	30 - 160

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Lab Sample ID: 2310352
Field Sample ID: DEPMW-11S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.8	P	30 - 160

Lab Sample ID: 2310353
Field Sample ID: DMW-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.7	P	30 - 160

Lab Sample ID: 2310354
Field Sample ID: DEPMW-1D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	57.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	81.4	P	30 - 160

Lab Sample ID: 2310355
Field Sample ID: DEPMW-2D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	53.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.8	P	30 - 160

Lab Sample ID: 2310356
Field Sample ID: DEPMW-3D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	56.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.2	P	30 - 160

Lab Sample ID: 2310357
Field Sample ID: DEPMW-4D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.7	P	30 - 160

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Lab Sample ID: 2310357
Field Sample ID: DEPMW-4D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	79.6	P	30 - 160

Lab Sample ID: 2310358
Field Sample ID: DEPMW-5D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	58.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	83.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	71.4	P	30 - 160

Lab Sample ID: 2310359
Field Sample ID: DEPMW-6D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	56.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	139	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	83.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.2	P	30 - 160

Lab Sample ID: 2310360
Field Sample ID: Well 1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	53.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.7	P	30 - 160

Lab Sample ID: 2310361
Field Sample ID: Well 4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	64.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.9	P	30 - 160

Lab Sample ID: 2310362
Field Sample ID: Well 10

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.4	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2310363
Field Sample ID: DEPMW-1S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8260D	1,2-Dichloroethane-d4	114	P	70 - 130
EPA 8260D	1,4-Dichlorobenzene-d4	97.4	P	70 - 130
EPA 8260D	Dibromofluoromethane	105	P	70 - 130
EPA 8260D	Toluene-d8	93.4	P	70 - 130

Lab Sample ID: 2310364
Field Sample ID: DEPMW-3S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8260D	1,2-Dichloroethane-d4	115	P	70 - 130
EPA 8260D	1,4-Dichlorobenzene-d4	98.8	P	70 - 130
EPA 8260D	Dibromofluoromethane	105	P	70 - 130
EPA 8260D	Toluene-d8	95.8	P	70 - 130

Lab Sample ID: 2310365
Field Sample ID: DEPMW-5S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8260D	1,2-Dichloroethane-d4	117	P	70 - 130
EPA 8260D	1,4-Dichlorobenzene-d4	95.4	P	70 - 130
EPA 8260D	Dibromofluoromethane	104	P	70 - 130
EPA 8260D	Toluene-d8	93.2	P	70 - 130

Lab Sample ID: 2310393
Field Sample ID: EB-PP-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	2-Fluorobiphenyl	96.0	P	30 - 150
EPA 8270E	Nitrobenzene-d5	105	P	30 - 150
EPA 8270E	Terphenyl-d14	141	P	30 - 150

Lab Sample ID: 2310394
Field Sample ID: Well 11

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.5	P	30 - 160

Lab Sample ID: 2310395
Field Sample ID: Well 12

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	60.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	91.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.9	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2310396
Field Sample ID: DUP-MW-1W

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	66.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	136	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.1	P	30 - 160

Lab Sample ID: 2310397
Field Sample ID: DUP-DEPMW-5D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	142	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.9	P	30 - 160

Lab Sample ID: 2310398
Field Sample ID: DUP-DEPMW-6D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	67.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.0	P	30 - 160

Lab Sample ID: 2310399
Field Sample ID: EB-PP-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	65.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	83.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.4	P	30 - 160

Lab Sample ID: 2310400
Field Sample ID: EB-PP-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	55.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	79.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.0	P	30 - 160

Lab Sample ID: 2310401
Field Sample ID: FRB-DEPMW-5D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	44.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	78.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2310401
Field Sample ID: FRB-DEPMW-5D

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.8	P	30 - 160

Lab Sample ID: 2310402
Field Sample ID: EB-PP-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8260D	1,2-Dichloroethane-d4	113	P	70 - 130
EPA 8260D	1,4-Dichlorobenzene-d4	101	P	70 - 130
EPA 8260D	Dibromofluoromethane	104	P	70 - 130
EPA 8260D	Toluene-d8	93.8	P	70 - 130

Lab Sample ID: 2310403
Field Sample ID: ;00079123-TB 11-MAY-2021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8260D	1,2-Dichloroethane-d4	113	P	70 - 130
EPA 8260D	1,4-Dichlorobenzene-d4	101	P	70 - 130
EPA 8260D	Dibromofluoromethane	103	P	70 - 130
EPA 8260D	Toluene-d8	95.6	P	70 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 8260D

Run ID: A110828

Included Lab Sample IDs: 2310363, 2310364, 2310365, 2310402, 2310403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1,1-Dichloroethane	107		P	80 - 120
1,1-Dichloroethene	82.6		P	80 - 120
1,1,1-Trichloroethane	98.0		P	80 - 120
1,1,2-Trichloroethane	93.9		P	80 - 120
1,1,2,2-Tetrachloroethane	89.4		P	80 - 120
1,2-Dichlorobenzene	89.6		P	80 - 120
1,2-Dichloroethane	105		P	80 - 120
1,2-Dichloropropane	103		P	80 - 120
1,3-Dichlorobenzene	88.3		P	80 - 120
1,4-Dichlorobenzene	88.8		P	80 - 120
2-Butanone	111		P	70 - 130
Benzene	99.3		P	80 - 120
Bromodichloromethane	105		P	80 - 120
Bromoform	98.0		P	80 - 120
Bromomethane	100		P	70 - 130
Carbon tetrachloride	104		P	80 - 120
Chlorobenzene	98.2		P	80 - 120
Chloroethane	88.8		P	70 - 130
Chloroform	106		P	80 - 120
Chloromethane	87.6		P	70 - 130
cis-1,2-Dichloroethene	95.9		P	80 - 120
cis-1,3-Dichloropropene	104		P	80 - 120
Dibromochloromethane	104		P	80 - 120
Ethylbenzene	97.0		P	80 - 120
m,p-Xylene	99.7		P	80 - 120
Methyl-t-butyl ether	92.4		P	80 - 120
Methylene chloride	98.8		P	80 - 120
o-Xylene	99.8		P	80 - 120
Tetrachloroethene	91.4		P	80 - 120
Toluene	103		P	80 - 120
trans-1,2-Dichloroethene	89.2		P	80 - 120
trans-1,3-Dichloropropene	95.4		P	80 - 120
Trichloroethene	103		P	80 - 120
Trichlorofluoromethane	103		P	70 - 130
Vinyl chloride	100		P	70 - 130

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310340, 2310341, 2310342, 2310343, 2310344, 2310345, 2310346, 2310347, 2310348, 2310349, 2310350, 2310351, 2310352, 2310353, 2310354, 2310355, 2310356, 2310357, 2310358, 2310359, 2310360, 2310361, 2310362, 2310394, 2310395, 2310397, 2310398, 2310399, 2310400, 2310401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroecosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	105	159	P/P	60 - 160
11-Chloroecosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	105	105	P/P	60 - 160
11-Chloroecosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	105	96.0	P/P	60 - 160
11-Chloroecosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.5	99.1	P/P	60 - 160
11-Chloroecosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.0	94.5	P/P	60 - 160
11-Chloroecosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	99.1	99.3	P/P	60 - 160
11-Chloroecosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	99.3	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	108	95.0	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310340, 2310341, 2310342, 2310343, 2310344, 2310345, 2310346, 2310347, 2310348, 2310349, 2310350, 2310351, 2310352, 2310353, 2310354, 2310355, 2310356, 2310357, 2310358, 2310359, 2310360, 2310361, 2310362, 2310394, 2310395, 2310397, 2310398, 2310399, 2310400, 2310401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	113	84.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	119	91.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	119	93.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	84.4	90.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	84.5	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	91.6	116	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.0	119	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	97.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	109	97.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	91.0	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.7	91.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.4	87.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.7	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	96.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	116	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	125	89.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	126	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.2	125	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.3	89.2	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	113	131	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	142	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	130	153	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	131	136	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	136	139	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	139	130	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	142	113	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	107	113	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	108	119	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	113	115	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	115	108	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	119	112	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120	98.4	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	98.4	107	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	101	78.7	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	107	101	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	77.5	88.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	78.2	107	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	78.7	92.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	92.2	77.5	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	94.9	78.2	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	101	95.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	101	95.4	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	103	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	104	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	86.1	103	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	95.1	86.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	95.4	111	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310340, 2310341, 2310342, 2310343, 2310344, 2310345, 2310346, 2310347, 2310348, 2310349, 2310350, 2310351, 2310352, 2310353, 2310354, 2310355, 2310356, 2310357, 2310358, 2310359, 2310360, 2310361, 2310362, 2310394, 2310395, 2310397, 2310398, 2310399, 2310400, 2310401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	93.8	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	81.1	88.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	83.3	81.1	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.4	100	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.8	94.2	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	94.2	94.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	94.9	83.3	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	106	142	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	128	135	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	135	156	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	137	138	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	138	128	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	142	137	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	156	156	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	118	147	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	119	129	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	123	119	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	124	123	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	124	130	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	129	118	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	130	124	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	115	128	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	118	115	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	120	123	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	121	118	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	123	121	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	128	108	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	155	110	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	102	95.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	102	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	108	92.6	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	92.6	108	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	94.8	108	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.0	94.8	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.8	105	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110	111	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110	96.7	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	111	114	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	112	118	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	114	106	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	115	112	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	116	110	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	118	116	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.7	91.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.0	86.6	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	86.6	92.2	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	88.0	75.7	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	91.4	84.0	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	91.9	91.4	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310340, 2310341, 2310342, 2310343, 2310344, 2310345, 2310346, 2310347, 2310348, 2310349, 2310350, 2310351, 2310352, 2310353, 2310354, 2310355, 2310356, 2310357, 2310358, 2310359, 2310360, 2310361, 2310362, 2310394, 2310395, 2310397, 2310398, 2310399, 2310400, 2310401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	92.2	68.8	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	101	99.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	102	79.6	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	102	94.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	107	116	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	109	107	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	112	109	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	116	102	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	94.5	101	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111	103	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111	122	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	116	127	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	118	124	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	122	111	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	124	116	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	127	111	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	100	95.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	105	96.0	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	106	98.4	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	95.8	105	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.0	106	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	98.2	100	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	98.4	101	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	90.2	97.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	91.7	93.4	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	93.3	90.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	93.4	93.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	93.5	91.7	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	95.4	99.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	97.8	95.4	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	99.8	102	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	105	106	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	105	95.1	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	106	110	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	110	98.9	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	95.1	95.6	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	95.6	105	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	98.9	122	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	100	70.0	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	104	90.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	70.0	104	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	73.3	92.5	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	80.0	73.3	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	90.2	128	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	92.5	100	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	75.8	94.6	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	79.6	75.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	83.3	79.6	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	87.2	83.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310340, 2310341, 2310342, 2310343, 2310344, 2310345, 2310346, 2310347, 2310348, 2310349, 2310350, 2310351, 2310352, 2310353, 2310354, 2310355, 2310356, 2310357, 2310358, 2310359, 2310360, 2310361, 2310362, 2310394, 2310395, 2310397, 2310398, 2310399, 2310400, 2310401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorododecanoic acid (PFDoA)	87.3	108	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	90.9	87.3	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	94.6	90.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	68.2	75.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.8	82.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	73.6	76.3	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.3	78.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	78.5	80.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	80.4	68.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	82.2	73.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	83.1	72.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	105	84.9	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	107	94.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	107	116	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	84.9	93.6	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	88.4	105	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	93.2	98.6	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	93.6	93.2	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	98.6	107	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	103	92.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	110	94.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	87.0	103	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	90.9	110	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.2	93.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.3	90.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.7	87.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	94.7	104	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	111	96.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	86.1	81.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	89.2	94.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	93.9	111	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	94.3	97.7	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	95.9	89.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	96.0	99.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	97.7	156	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	101	99.7	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	103	110	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	104	103	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	93.5	104	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	94.6	98.4	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	98.4	93.5	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	99.7	94.6	P/P	60 - 160
Perfluorononanoic acid (PFNA)	75.6	84.2	P/P	60 - 160
Perfluorononanoic acid (PFNA)	80.1	75.6	P/P	60 - 160
Perfluorononanoic acid (PFNA)	84.2	94.7	P/P	60 - 160
Perfluorononanoic acid (PFNA)	89.3	80.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	93.1	91.4	P/P	60 - 160
Perfluorononanoic acid (PFNA)	94.7	93.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	94.8	89.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310340, 2310341, 2310342, 2310343, 2310344, 2310345, 2310346, 2310347, 2310348, 2310349, 2310350, 2310351, 2310352, 2310353, 2310354, 2310355, 2310356, 2310357, 2310358, 2310359, 2310360, 2310361, 2310362, 2310394, 2310395, 2310397, 2310398, 2310399, 2310400, 2310401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorooctanesulfonic acid (PFOS)	86.3	86.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	86.7	94.5	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	87.2	86.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	87.7	92.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	92.7	92.5	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	94.5	87.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	95.5	107	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	101	117	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	101	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	116	96.1	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	117	111	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	121	122	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	96.1	99.2	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	96.7	108	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	99.2	88.2	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	102	116	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	105	117	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	109	113	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	109	120	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	110	109	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	116	105	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	117	110	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	120	102	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	104	101	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	108	117	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	110	118	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	111	113	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	113	104	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	117	125	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	118	108	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	125	109	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	125	111	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	102	127	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	110	85.5	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	127	97.5	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	81.7	110	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	85.5	102	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	89.8	81.7	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	90.6	89.8	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	120	121	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	81.8	87.9	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	87.6	120	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	87.9	89.4	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	89.4	91.3	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	91.1	87.6	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	91.3	91.1	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	104	104	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	104	119	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	117	119	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310340, 2310341, 2310342, 2310343, 2310344, 2310345, 2310346, 2310347, 2310348, 2310349, 2310350, 2310351, 2310352, 2310353, 2310354, 2310355, 2310356, 2310357, 2310358, 2310359, 2310360, 2310361, 2310362, 2310394, 2310395, 2310397, 2310398, 2310399, 2310400, 2310401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorotridecanoic acid (PFTriA)	119	117	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	119	128	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	122	104	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	128	154	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	103	97.8	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	117	111	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	85.3	117	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	91.2	99.8	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.4	91.2	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	97.8	95.4	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	99.8	85.3	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A110942

Included Lab Sample IDs: 2310336, 2310337, 2310338, 2310393

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1-Methylnaphthalene	104		P	70 - 130
1-Methylphenanthrene	106		P	70 - 130
2-Methylnaphthalene	105		P	70 - 130
2,3,5-Trimethylnaphthalene	104		P	70 - 130
2,6-Dimethylnaphthalene	104		P	70 - 130
Acenaphthene	104		P	70 - 130
Acenaphthylene	102		P	70 - 130
Anthracene	105		P	70 - 130
Benzo(a)anthracene	98.6		P	70 - 130
Benzo(a)pyrene	112		P	70 - 130
Benzo(b)fluoranthene	101		P	70 - 130
Benzo(g,h,i)perylene	97.6		P	70 - 130
Benzo(k)fluoranthene	96.2		P	70 - 130
Biphenyl	105		P	70 - 130
Chrysene	116		P	70 - 130
Dibenzo(a,h)anthracene	81.8		P	70 - 130
Dibenzothiophene	99.2		P	70 - 130
Fluoranthene	110		P	70 - 130
Fluorene	99.4		P	70 - 130
Indeno(1,2,3-cd)pyrene	86.8		P	70 - 130
Naphthalene	112		P	70 - 130
Phenanthrene	100		P	70 - 130
Pyrene	114		P	70 - 130

Reference Method: DEP SOP: LC-001-3

Run ID: A110951

Included Lab Sample IDs: 2310344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	124	106	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	89.0	111	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	90.2	102	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110951

Included Lab Sample IDs: 2310344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorohexanesulfonic acid (PFHxS)	90.3	96.8	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	84.7	113	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	86.3	95.4	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	107	95.9	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A111038

Included Lab Sample IDs: 2310339, 2310396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	100	92.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	108	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.5	88.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.1	105	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	142	116	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	107	102	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	81.2	75.3	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	115	114	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	96.8	83.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	128	128	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	140	152	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	138	141	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	101	99.8	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	114	114	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.6	77.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	117	119	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	112	122	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	100	107	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	92.1	94.2	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	99.4	105	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	99.7	86.7	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	105	70.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	79.7	78.6	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	107	95.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	90.6	84.5	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	99.0	96.6	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	104	95.0	P/P	60 - 160
Perfluorononanoic acid (PFNA)	84.5	68.1	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	95.7	95.7	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	99.3	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	110	116	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	114	116	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	103	106	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	93.4	91.2	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	128	116	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	91.1	77.3	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements. Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
DEP SOP: LC-001-3	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	127		80.5	75.1		6.94
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	123		89.2	72.6		20.5
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.5		77.4	87.1		11.8
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	78.6		58.2	53.9		7.67
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	157		134	136		1.04
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	159		140	122		12.5
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.8		97.3	124		23.9
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.3		110	138		23.0
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	130		126	121		3.49
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	125		150	152		1.13
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.3		106	108		1.59
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	84.7		105	89.5		15.9
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	159		157	144		8.64
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	150					2.02
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	122		132	117		11.7
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.1		105	83.5		23.1
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158		155	159		2.49
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	159		158	158		0.317
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	127		121	129		6.33
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	117		98.3	123		22.1
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	156		137	125		8.62
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	153		147	134		9.16
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	120		112	112		0.269
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	103		86.8	90.6		4.28
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	104		111	93.1		17.9
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	131		121	132		8.62
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.8		80.9	98.1		19.2
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.3		85.8	96.6		11.8
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	136		114	118		3.88

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	144	124	131		4.78
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	90.4	95.5	112		16.1
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	77.6	93.9	93.4		0.534
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	121	114	112		2.48
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	124	140	123		12.6
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	91.6	72.6	84.1		14.7
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.3	84.7	88.8		4.73
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	125	147	153		4.06
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	142	132	139		5.23
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	153	116	108		7.24
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	95.8	125	119		4.43
	Perfluoro-1-butane sulfonamide (FBSA)	139	156	156		0.0639
	Perfluoro-1-butane sulfonamide (FBSA)	126	154	159		2.87
	Perfluoro-1-butane sulfonamide (FBSA)	156	134	148		9.65
	Perfluoro-1-butane sulfonamide (FBSA)	156	138	134		2.80
	Perfluoro-1-hexane sulfonamide (FHxSA)	141	156	156		0.192
	Perfluoro-1-hexane sulfonamide (FHxSA)	133	151	152		0.735
	Perfluoro-1-hexane sulfonamide (FHxSA)	156	137	142		3.72
	Perfluoro-1-hexane sulfonamide (FHxSA)	145	125	116		7.62
	Perfluoro-1-octane sulfonamide (FOSA)	148	134	128		4.28
	Perfluoro-1-octane sulfonamide (FOSA)	146	136	139		2.62
	Perfluoro-1-octane sulfonamide (FOSA)	100	105	111		5.93
	Perfluoro-1-octane sulfonamide (FOSA)	97.0	108	97.0		11.2
	Perfluoro-3-methoxypropanoic acid (PFMPA)	144	144	144		0.278
	Perfluoro-3-methoxypropanoic acid (PFMPA)	154	109	62.4		54.0
	Perfluoro-3-methoxypropanoic acid (PFMPA)	112	121	120		0.748
	Perfluoro-3-methoxypropanoic acid (PFMPA)	106	122	119		3.15

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
DEP SOP: LC-001-3	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	117	105	114		7.93
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	121	124	118		5.30
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	85.2	96.8	84.9		13.1
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.2	86.7	84.9		2.10
	Perfluoro-4-methoxybutanoic acid (PFMBA)	156	139	130		6.60
	Perfluoro-4-methoxybutanoic acid (PFMBA)	153	168	201		17.9
	Perfluoro-4-methoxybutanoic acid (PFMBA)	106	116	120		3.39
	Perfluoro-4-methoxybutanoic acid (PFMBA)	107	118	117		0.768
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	152	156	148		5.53
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	158	158	158		0.316
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	135	117	124		5.15
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	127	122	110		9.82
	Perfluorobutanesulfonic acid (PFBS)	133	137	121		12.4
	Perfluorobutanesulfonic acid (PFBS)	145	131	152		14.8
	Perfluorobutanesulfonic acid (PFBS)	101	92.6	103		6.64
	Perfluorobutanesulfonic acid (PFBS)	100	94.3	84.5		3.49
	Perfluorobutanoic acid (PFBA)	128	118	121		2.76
	Perfluorobutanoic acid (PFBA)	135	123	112		7.79
	Perfluorobutanoic acid (PFBA)	94.3	112	120		4.37
	Perfluorobutanoic acid (PFBA)	91.3	99.2	96.2		1.46
	Perfluorodecanesulfonic acid (PFDS)	136	94.1	79.4		16.9
	Perfluorodecanesulfonic acid (PFDS)	128	103	81.7		23.1
	Perfluorodecanesulfonic acid (PFDS)	105	77.2	97.4		22.1
	Perfluorodecanesulfonic acid (PFDS)	89.9	60.9	60.9		0.0
	Perfluorodecanoic acid (PFDA)	116	103	107		3.14
	Perfluorodecanoic acid (PFDA)	118	112	123		9.81
	Perfluorodecanoic acid (PFDA)	90.1	92.0	89.1		3.20
	Perfluorodecanoic acid (PFDA)	111	95.4	88.7		7.28
	Perfluorododecanoic acid (PFDoA)	119	87.8	97.3		10.3
	Perfluorododecanoic acid (PFDoA)	104	114	116		1.04
	Perfluorododecanoic acid (PFDoA)	93.1	98.7	87.4		12.1
	Perfluorododecanoic acid (PFDoA)	82.1	91.1	108		17.1
	Perfluoroheptanesulfonic acid (PFHpS)	105	93.6	96.8		3.36
	Perfluoroheptanesulfonic acid (PFHpS)	103	102	105		2.51
	Perfluoroheptanesulfonic acid (PFHpS)	77.4	82.4	79.2		3.61

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	Perfluoroheptanesulfonic acid (PFHpS)	73.9	85.0	83.3		2.02
	Perfluoroheptanoic acid (PFHpA)	142	118	130		9.36
	Perfluoroheptanoic acid (PFHpA)	150	126	153		15.2
	Perfluoroheptanoic acid (PFHpA)	98.7	109	145		16.7
	Perfluoroheptanoic acid (PFHpA)	88.3	96.9	114		7.45
	Perfluorohexanesulfonic acid (PFHxS)	125	105	115		8.93
	Perfluorohexanesulfonic acid (PFHxS)	126	130	118		9.30
	Perfluorohexanesulfonic acid (PFHxS)	92.5	105	105		0.412
	Perfluorohexanesulfonic acid (PFHxS)	91.4	97.2	99.2		1.16
	Perfluorohexanoic acid (PFHxA)	132	132	137		3.20
	Perfluorohexanoic acid (PFHxA)	143	152	118		14.6
	Perfluorohexanoic acid (PFHxA)	120	95.1	101		2.79
	Perfluorohexanoic acid (PFHxA)	101	52.8	37.1		5.53
	Perfluorononanesulfonic acid (PFNS)	135	114	105		7.58
	Perfluorononanesulfonic acid (PFNS)	132	110	114		3.83
	Perfluorononanesulfonic acid (PFNS)	98.0	96.0	97.2		1.24
	Perfluorononanesulfonic acid (PFNS)	95.4	81.5	80.9		0.739
	Perfluorononanoic acid (PFNA)	134	96.7	91.5		5.53
	Perfluorononanoic acid (PFNA)	102	126	125		1.43
	Perfluorononanoic acid (PFNA)	73.4	98.2	111		11.9
	Perfluorononanoic acid (PFNA)	70.7	94.9	86.9		8.80
	Perfluorooctanesulfonic acid (PFOS)	116	110	112		1.35
	Perfluorooctanesulfonic acid (PFOS)	129	126	118		5.12
	Perfluorooctanesulfonic acid (PFOS)	94.8				1.82
	Perfluorooctanesulfonic acid (PFOS)	92.0	95.3	97.6		0.876
	Perfluorooctanoic acid (PFOA)	137	156	153		1.49
	Perfluorooctanoic acid (PFOA)	144	134	120		9.26
	Perfluorooctanoic acid (PFOA)	110	103	91.2		4.09
	Perfluorooctanoic acid (PFOA)	115	129	128		0.416
	Perfluoropentanesulfonic acid (PFPeS)	143	151	133		12.7
	Perfluoropentanesulfonic acid (PFPeS)	155	149	156		4.46
	Perfluoropentanesulfonic acid (PFPeS)	116	107	114		6.09
	Perfluoropentanesulfonic acid (PFPeS)	106	120	109		8.55
Perfluoropentanoic acid (PFPeA)	156	157	137		13.8	
Perfluoropentanoic acid (PFPeA)	159	98.2	118		8.40	
Perfluoropentanoic acid (PFPeA)	126	110	142		11.5	
Perfluoropentanoic acid (PFPeA)	98.1				5.49	
Perfluoropropanesulfonic acid (PFPrS)	134	129	110		15.7	
Perfluoropropanesulfonic acid (PFPrS)	151	145	125		15.0	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS	
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	114		110	124			12.1	
	Perfluoropropanesulfonic acid (PFPrS)	86.9		100	82.4			19.4	
	Perfluorotetradecanoic acid (PFTeA)	107		119	116			2.37	
	Perfluorotetradecanoic acid (PFTeA)	125		142	140			1.06	
	Perfluorotetradecanoic acid (PFTeA)	84.8		122	109			11.5	
	Perfluorotetradecanoic acid (PFTeA)	116		123	107			13.7	
	Perfluorotridecanoic acid (PFTriA)	142		145	152			4.18	
	Perfluorotridecanoic acid (PFTriA)	156		159	158			0.821	
	Perfluorotridecanoic acid (PFTriA)	148		153	136			12.1	
	Perfluorotridecanoic acid (PFTriA)	140		126	124			1.44	
	Perfluoroundecanoic acid (PFUnA)	100		98.9	117			16.8	
	Perfluoroundecanoic acid (PFUnA)	148		116	138			16.5	
	Perfluoroundecanoic acid (PFUnA)	134		85.7	92.6			7.74	
	Perfluoroundecanoic acid (PFUnA)	126		87.8	91.5			4.13	
	EPA 8260D	1,1-Dichloroethane	103	110	99.4	105	6.39		5.34
		1,1-Dichloroethene	96.2	103	93.2	97.8	6.83		4.92
1,1,1-Trichloroethane		99.4	106	95.8	100	6.38		4.54	
1,1,2-Trichloroethane		99.2	106	95.2	100	7.10		5.02	
1,1,2,2-Tetrachloroethane		93.2	97.2	95.2	99.6	4.10		4.47	
1,2-Dichlorobenzene		89.0	97.2	86.1	91.2	8.80		5.75	
1,2-Dichloroethane		107	112	102	107	4.01		4.50	
1,2-Dichloropropane		102	109	99.7	105	6.29		5.37	
1,3-Dichlorobenzene		88.5	96.7	85.6	90.1	8.86		5.18	
1,4-Dichlorobenzene		88.1	96.6	85.3	89.8	9.26		5.08	
2-Butanone		109	113	107	110	3.38		3.19	
Benzene		98.6	105	95.5	100	6.62		4.85	
Bromodichloromethane		103	108	97.8	103	5.45		4.74	
Bromoform		96.7	102	91.7	96.6	5.58		5.15	
Bromomethane		98.4	108	95.0	101	8.89		5.62	
Carbon tetrachloride		101	107	96.6	101	5.76		4.05	
Chlorobenzene		94.8	103	91.4	96.4	8.10		5.32	
Chloroethane		104	110	104	110	6.26		5.93	
Chloroform		102	109	98.2	103	6.07		4.92	
Chloromethane		100	106	98.0	104	6.05		6.08	
cis-1,2-Dichloroethene		97.4	104	95.0	99.5	7.08		4.68	
cis-1,3-Dichloropropene		99.2	104	96.7	102	5.06		5.04	
Dibromochloromethane		98.2	105	93.3	98.3	6.65		5.22	
Ethylbenzene		94.9	103	91.3	96.4	8.52		5.38	
m,p-Xylene		97.8	106	94.0	98.7	8.19		4.93	
Methyl-t-butyl ether		92.4	99.1	91.6	96.8	6.94		5.52	
Methylene chloride		99.5	106	94.2	100	6.09		6.17	
o-Xylene		96.2	104	92.2	97.5	8.32		5.53	
Tetrachloroethene		92.7	101	89.2	93.1	8.37		4.28	
Toluene		100	107	96.8	102	6.38		4.74	
trans-1,2-Dichloroethene	97.2	104	94.0	98.7	6.67		4.93		
trans-1,3-Dichloropropene	98.2	105	94.7	99.0	6.74		4.49		
Trichloroethene	100	109	93.5	98.3	7.95		5.01		
Trichlorofluoromethane	104	110	98.4	103	5.34		4.42		
Vinyl chloride	102	110	100	105	6.89		4.97		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	SMP
EPA 8270E	1-Methylnaphthalene	95.8	104			7.82	
	1-Methylphenanthrene	105	139			27.7	
	2-Methylnaphthalene	95.4	105			9.96	
	2,3,5-Trimethylnaphthalene	100	113			12.2	
	2,6-Dimethylnaphthalene	97.8	109			10.6	
	Acenaphthene	98.2	111			11.9	
	Acenaphthylene	99.6	110			9.56	
	Anthracene	104	117			12.1	
	Benzo(a)anthracene	102	117			13.8	
	Benzo(a)pyrene	105	114			8.04	
	Benzo(b)fluoranthene	88.4	98.8			11.1	
	Benzo(g,h,i)perylene	99.8	109			8.63	
	Benzo(k)fluoranthene	95.4	98.0			2.69	
	Biphenyl	99.6	111			11.0	
	Chrysene	99.6	114			13.8	
	Dibenzo(a,h)anthracene	90.8	97.0			6.60	
	Dibenzothiophene	99.6	115			14.2	
	Fluoranthene	105	118			12.4	
	Fluorene	108	122			12.2	
	Indeno(1,2,3-cd)pyrene	92.2	98.2			6.30	
	Naphthalene	92.4	103			10.8	
	Phenanthrene	107	126			16.2	
	Pyrene	113	130			14.2	

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2310339, 2310340, 2310341, 2310342, 2310343, 2310344, 2310345, 2310346, 2310347, 2310348, 2310349, 2310350, 2310351, 2310352, 2310353, 2310354, 2310355, 2310356, 2310357, 2310358, 2310359, 2310360, 2310361, 2310362, 2310394, 2310395, 2310396, 2310397, 2310398, 2310399, 2310400, 2310401
EPA 8260D	Volatile organic pollutants in acid preserved water matrices using GC/MS	2310363, 2310364, 2310365, 2310402, 2310403
EPA 8270E	Low level PAH analyses in water matrices by GC/MS.	2310336, 2310337, 2310338, 2310393

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/11/2022 23:55	Mohammad Ghaffari	2310340
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/12/2022 00:05	Mohammad Ghaffari	2310341
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/12/2022 00:16	Mohammad Ghaffari	2310342
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/12/2022 00:27	Mohammad Ghaffari	2310343
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/12/2022 00:38	Mohammad Ghaffari	2310344
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/15/2022 09:17	Mohammad Ghaffari	2310344
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/17/2022 10:48	Mohammad Ghaffari	2310339
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/18/2022 10:34	Mohammad Ghaffari	2310339
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 01:21	Mohammad Ghaffari	2310399
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 02:04	Mohammad Ghaffari	2310356
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 02:15	Mohammad Ghaffari	2310358
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 02:26	Mohammad Ghaffari	2310397
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 02:47	Mohammad Ghaffari	2310359
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 02:58	Mohammad Ghaffari	2310398
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 03:09	Mohammad Ghaffari	2310346
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 03:20	Mohammad Ghaffari	2310347
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 03:30	Mohammad Ghaffari	2310348
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 03:41	Mohammad Ghaffari	2310349
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 03:52	Mohammad Ghaffari	2310350
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 04:03	Mohammad Ghaffari	2310351
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 04:24	Mohammad Ghaffari	2310352
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 04:35	Mohammad Ghaffari	2310353
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 04:46	Mohammad Ghaffari	2310354
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 04:57	Mohammad Ghaffari	2310355
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 05:08	Mohammad Ghaffari	2310357
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 05:18	Mohammad Ghaffari	2310360
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 05:29	Mohammad Ghaffari	2310361
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/12/2022 05:40	Mohammad Ghaffari	2310362
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/13/2022 14:57	Mohammad Ghaffari	2310356
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/13/2022 15:08	Mohammad Ghaffari	2310346
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/13/2022 15:19	Mohammad Ghaffari	2310351
	03/04/2022	03/10/2022 11:00	Hoor Shaik	03/13/2022 15:30	Mohammad Ghaffari	2310353
	03/04/2022	03/11/2022 09:00	Hoor Shaik	03/12/2022 06:23	Mohammad Ghaffari	2310400
	03/04/2022	03/11/2022 09:00	Hoor Shaik	03/12/2022 06:34	Mohammad Ghaffari	2310401
	03/04/2022	03/11/2022 09:00	Hoor Shaik	03/12/2022 08:54	Mohammad Ghaffari	2310345
	03/04/2022	03/11/2022 09:00	Hoor Shaik	03/12/2022 09:05	Mohammad Ghaffari	2310394
	03/04/2022	03/11/2022 09:00	Hoor Shaik	03/12/2022 09:27	Mohammad Ghaffari	2310395
	03/04/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 13:10	Mohammad Ghaffari	2310345
	03/04/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 13:20	Mohammad Ghaffari	2310345
	03/04/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 13:31	Mohammad Ghaffari	2310395

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/04/2022	03/15/2022 09:00	Hoor Shaik	03/17/2022 10:59	Mohammad Ghaffari	2310396
	03/04/2022	03/15/2022 09:00	Hoor Shaik	03/18/2022 10:45	Mohammad Ghaffari	2310396
EPA 8260D	03/04/2022	03/08/2022 11:00	Yi Lin Luo	03/08/2022 17:12	Yi Lin Luo	2310363
	03/04/2022	03/08/2022 11:00	Yi Lin Luo	03/08/2022 17:38	Yi Lin Luo	2310364
	03/04/2022	03/08/2022 11:00	Yi Lin Luo	03/08/2022 18:05	Yi Lin Luo	2310365
	03/04/2022	03/08/2022 11:00	Yi Lin Luo	03/08/2022 18:31	Yi Lin Luo	2310402
	03/04/2022	03/08/2022 11:00	Yi Lin Luo	03/08/2022 18:58	Yi Lin Luo	2310403
EPA 8270E	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/15/2022 12:17	Juyoung Kim	2310336
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/15/2022 12:42	Juyoung Kim	2310337
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/15/2022 13:07	Juyoung Kim	2310338
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/15/2022 13:31	Juyoung Kim	2310393

Chemical Analysis Report

SIS-2021-09-08-03

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

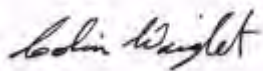
Event Description: **Miami Dade College Fire Training Facility**
Request ID: **RQ-2021-08-16-13**
Customer: **SIS**
Project ID: **SIS-PFAS**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: Jeff Newton

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 06-OCT-2021 13:43



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 09:15

Field ID: SB-8-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274105	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.18	I	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	1.1	I	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	5.0		ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	5.9		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	3.7		ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	1.6		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	2.8		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	4.8		ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	5.4		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	2.6		ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	2.3		ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	2.1		ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	4.4		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	2.9		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.20	I	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.26	I	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	I	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	18		ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403459	

Field ID: SB-8-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274105	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P403459	
2274117	SM 2540 G (20th)	% Solid	96.1	A	%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 09:20

Field ID: SB-8-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274106	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.23	I	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	1.4	I	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	5.1		ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	2.6		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	7.0		ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	1.8		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	3.8		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	6.5		ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	6.3		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	2.6		ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.69	I	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.76		ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	5.4		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	3.7		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.19	I	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.094	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.094	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.27	I	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.094	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.094	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.22	I	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.096	I	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	20		ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.094	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.094	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-8-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274106	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.75	U	ug/Kg	P403459	
2274118	SM 2540 G (20th)	% Solid	97.5		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 09:30

Field ID: SB-8-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274107	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.28	I	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	1.7		ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	4.3		ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.50	I	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	8.2		ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	3.0		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	8.4		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	3.7		ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	16		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	2.5		ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.27	I	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	1.7		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	7.3		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.27	I	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.093	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.16	I	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.20	I	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.093	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.093	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	I	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.093	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.3	I	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	8.2		ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.093	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.093	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.37	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-8-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274107	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.74	U	ug/Kg	P403459	
2274119	SM 2540 G (20th)	% Solid	97.7		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 09:45

Field ID: SB-9-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274108	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	3.0		ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	1.7		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.96		ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.21	I	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.94		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.63	I	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	1.5		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.48	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.77	I	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.90		ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	2.4		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.79	I	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.15	I	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P403459	

Field ID: SB-9-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274108	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.87	U	ug/Kg	P403459	
2274120	SM 2540 G (20th)	% Solid	94.0		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 09:55

Field ID: SB-9-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274109	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	1.5	I	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.33	I	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.34	I	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.12	I	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.42	I	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.66	I	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	2.0		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.43	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.22	I	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	1.0		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.70	I	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403459	

Field ID: SB-9-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274109	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P403459	
2274121	SM 2540 G (20th)	% Solid	94.4		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 10:05

Field ID: SB-9-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274110	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.58	I	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	2.2		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.23	I	ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-9-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274110	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403459	
2274122	SM 2540 G (20th)	% Solid	95.7		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 10:10

Field ID: SB-10-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274111	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.96	I	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	5.4		ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	3.8		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	2.7		ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	1.1		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	1.9		ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	1.3		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	1.5		ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.94		ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	1.6		ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	5.8		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	2.0		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	2.1		ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.38	I	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403459	

Field ID: SB-10-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274111	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P403459	
2274123	SM 2540 G (20th)	% Solid	92.2		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 10:15

Field ID: SB-10-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274112	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	1.1	I	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.58	I	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.57	I	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	1.2		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.48	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.65	I	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.44		ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403459	

Field ID: SB-10-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274112	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P403459	
2274124	SM 2540 G (20th)	% Solid	96.0		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 10:25

Field ID: SB-10-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274113	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	0.79	I	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.92		ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	1.4		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.37	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.34	I	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	I	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-10-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274113	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403459	
2274125	SM 2540 G (20th)	% Solid	97.3		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 10:40

Field ID: SB-11-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274114	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	9.9		ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	3.1		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	1.1		ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.098	U	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	1.1		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	1.7		ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	0.94		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	1.0		ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.93		ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.50	I	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	7.6		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.99		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.098	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.19	I	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.65	I	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403459	

Field ID: SB-11-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274114	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403459	
2274126	SM 2540 G (20th)	% Solid	95.0		%	P403735	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 10:50

Field ID: SB-11-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274115	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	5.4		ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.79	I	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.67	I	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.88		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	2.7		ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	1.3		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	1.2		ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.21	I	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	1.3		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	1.1		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403459	

Field ID: SB-11-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274115	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403459	
2274127	SM 2540 G (20th)	% Solid	96.0	A	%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 11:00

Field ID: SB-11-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274116	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.094	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	0.94	I	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.40	I	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.094	U	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.22	I	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	1.6		ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	1.8		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.64	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.45	I	ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.35	I	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.094	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.094	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.094	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.094	U	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.094	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.094	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.094	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.094	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.094	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.094	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-11-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274116	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.75	U	ug/Kg	P403459	
2274128	SM 2540 G (20th)	% Solid	96.8		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 11:20

Field ID: SB-12-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274129	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	I	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.46	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	0.46	U	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	1.9		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	1.9		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.43	I	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	17		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.42	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	1.2		ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	1.1		ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.31	I	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.16	I	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.75		ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.31	I	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.52	I	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.46	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P403459	

Field ID: SB-12-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274129	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.92	U	ug/Kg	P403459	
2274141	SM 2540 G (20th)	% Solid	89.7		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 11:25

Field ID: SB-12-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274130	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	0.84	I	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.56	I	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.87		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	3.5		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.37	I	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.34	I	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.30	I	ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.24	I	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.11	I	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.60		ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.1		ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.9		ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	1.5		ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-12-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274130	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403459	
2274142	SM 2540 G (20th)	% Solid	95.1		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 11:30

Field ID: SB-12-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274131	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.43	I	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	1.6		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	5.2		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.20	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.37	I	ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.39	I	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.32	I	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.4		ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	2.0		ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	4.0		ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403459	

Field ID: SB-12-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274131	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P403459	
2274143	SM 2540 G (20th)	% Solid	95.7		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 11:35

Field ID: SB-13-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274132	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.15	I	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.37	I	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	1.1	I	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	4.0		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.94		ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	3.1		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	1.2		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.37	I	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	23		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.66	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	2.0		ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	2.0		ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	1.1		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	1.3		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.23	I	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.19	I	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.093	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.26	I	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.093	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.093	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.41		ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.22	I	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.71	I	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.093	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.093	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.37	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-13-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274132	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.74	U	ug/Kg	P403459	
2274144	SM 2540 G (20th)	% Solid	97.0		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 11:40

Field ID: SB-13-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274133	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.093	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.37	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	1.1	I	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	6.3		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.63	I	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	2.3		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.41	I	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.49	I	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	14		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.29	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	2.2		ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	2.1		ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	2.1		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.91		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	I	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.093	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.13	I	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.66		ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.093	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.093	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.75		ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.4		ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0		ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.093	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.093	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.37	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-13-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274133	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.75	U	ug/Kg	P403459	
2274145	SM 2540 G (20th)	% Solid	96.8		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 11:45

Field ID: SB-13-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274134	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	1.6		ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.80		ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.30	I	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	1.3		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.39	I	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	6.5		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.45	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.79		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.13	I	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.27	I	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.64		ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.2		ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.8		ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403459	

Field ID: SB-13-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274134	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P403459	
2274146	SM 2540 G (20th)	% Solid	97.2		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 13:05

Field ID: SB-14-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274135	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.70	I	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	0.57	I	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.87		ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.61		ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	1.3		ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.21	I	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	7.7		ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.63	I	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.80		ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	2.4		ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.12	I	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.72		ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403459	

Field ID: SB-14-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274135	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403459	
2274147	SM 2540 G (20th)	% Solid	97.2		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 13:10

Field ID: SB-14-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274136	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403459	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403459	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403459	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403459	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403459	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403459	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403459	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403459	
		Perfluorooctanesulfonic acid (PFOS)**	0.23	I	ug/Kg	P403459	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403459	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403459	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403459	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403459	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403459	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403459	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403459	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403459	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403459	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403459	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403459	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403459	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403459	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403459	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403459	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403459	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403459	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403459	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403459	

Field ID: SB-14-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274136	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403459	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403459	
2274148	SM 2540 G (20th)	% Solid	98.1		%	P403736	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 13:15

Field ID: SB-14-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274137	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-14-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274137	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403460	
2274149	SM 2540 G (20th)	% Solid	97.1	A	%	P403738	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 13:25

Field ID: SB-15-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274138	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.47	I	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	I	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	2.5		ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.30	I	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.62	I	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	I	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403460	

Field ID: SB-15-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274138	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P403460	
2274150	SM 2540 G (20th)	% Solid	97.5		%	P403738	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 13:30

Field ID: SB-15-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274139	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.099	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	1.6		ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-15-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274139	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P403460	
2274151	SM 2540 G (20th)	% Solid	98.6		%	P403738	

Sample Location: Miami Dade College - Fire Training Facility

Collection Date/Time: 08/31/2021 13:35

Field ID: SB-15-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274140	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.096	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.096	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.30	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.096	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.096	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.096	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.096	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.096	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.096	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.096	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403460	

Field ID: SB-15-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274140	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	0.76	U	ug/Kg	P403460	
2274152	SM 2540 G (20th)	% Solid	97.3		%	P403738	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 15:00

Field ID: SB-16-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274164	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	1.5		ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.24	I	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403460	

Field ID: SB-16-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274164	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P403460	
2274176	SM 2540 G (20th)	% Solid	95.4		%	P403738	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 15:05

Field ID: SB-16-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274165	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.095	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.24	I	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	1.8		ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.23	I	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.22	I	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.095	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.095	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.095	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403460	

Field ID: SB-16-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274165	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P403460	
2274177	SM 2540 G (20th)	% Solid	98.5		%	P403738	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 15:10

Field ID: SB-16-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274166	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.099	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	1.1		ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.23	I	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-16-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274166	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403460	
2274178	SM 2540 G (20th)	% Solid	97.0		%	P403738	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 15:50

Field ID: SB-17-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274167	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.096	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.41	I	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.23	I	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.096	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	1.6		ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.21	I	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.096	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.096	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.096	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.14	I	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.096	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.096	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.096	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403460	

Field ID: SB-17-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274167	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403460	
2274179	SM 2540 G (20th)	% Solid	94.5		%	P403738	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:05

Field ID: SB-17-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274168	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.46	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-17-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274168	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403460	
2274180	SM 2540 G (20th)	% Solid	98.1		%	P403738	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:15

Field ID: SB-18-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274169	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.41	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-18-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274169	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403460	
2274181	SM 2540 G (20th)	% Solid	97.4		%	P403738	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:20

Field ID: SB-18-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274170	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.099	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.31	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-18-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274170	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P403460	
2274182	SM 2540 G (20th)	% Solid	97.9	A	%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:25

Field ID: SB-18-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274171	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.095	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.19	U	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.095	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.095	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.095	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403460	

Field ID: SB-18-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274171	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P403460	
2274183	SM 2540 G (20th)	% Solid	97.5		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:30

Field ID: SB-19-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274172	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.80	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.30	I	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-19-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274172	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403460	
2274184	SM 2540 G (20th)	% Solid	98.2		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 15:55

Field ID: SB-17-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274173	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.099	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.86		ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-17-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274173	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P403460	
2274185	SM 2540 G (20th)	% Solid	97.2		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:35

Field ID: SB-19-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274174	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.47	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403460	

Field ID: SB-19-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274174	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403460	
2274186	SM 2540 G (20th)	% Solid	97.7		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:45

Field ID: SB-19-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274175	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-19-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274175	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403460	
2274187	SM 2540 G (20th)	% Solid	97.1		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:50

Field ID: SB-20-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274191	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.096	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.096	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.69	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.096	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.096	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.096	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.096	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.096	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.096	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.096	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.096	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403460	

Field ID: SB-20-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274191	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403460	
2274203	SM 2540 G (20th)	% Solid	97.5		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 16:55

Field ID: SB-20-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274192	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.62	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.23	I	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403460	

Field ID: SB-20-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274192	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403460	
2274204	SM 2540 G (20th)	% Solid	98.1		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 17:05

Field ID: SB-20-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274193	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.095	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	0.53	I	ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.095	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.095	U	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.095	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.095	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403460	

Field ID: SB-20-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274193	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P403460	
2274205	SM 2540 G (20th)	% Solid	97.9		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 09:15

Field ID: SB-21-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274194	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403460	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P403460	
		Perfluorodecanoic acid (PFDA)**	0.69	I	ug/Kg	P403460	
		Perfluorododecanoic acid (PFDoA)**	0.40	I	ug/Kg	P403460	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P403460	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403460	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P403460	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P403460	
		Perfluorooctanesulfonic acid (PFOS)**	1.0		ug/Kg	P403460	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P403460	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P403460	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P403460	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P403460	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P403460	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403460	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403460	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403460	
		Perfluorodecanesulfonic acid (PFDS)**	0.17	I	ug/Kg	P403460	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403460	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403460	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403460	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403460	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P403460	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403460	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P403460	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403460	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403460	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P403460	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P403460	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P403460	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P403460	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P403460	

Field ID: SB-21-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274194	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P403460	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.87	U	ug/Kg	P403460	
2274206	SM 2540 G (20th)	% Solid	94.6		%	P403739	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 09:25

Field ID: SB-21-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274195	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.51	I	ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.28	I	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403612	

Field ID: SB-21-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274195	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403612	
2274207	SM 2540 G (20th)	% Solid	97.6	A	%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 09:30

Field ID: SB-21-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274196	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.099	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.99		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.22	I	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403612	

Field ID: SB-21-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274196	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P403612	
2274208	SM 2540 G (20th)	% Solid	96.7		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 09:35

Field ID: SB-22-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274197	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.14	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.56	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.86	I	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.30	I	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.82	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.14	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.53	I	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.58	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	8.0		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	1.5		ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.28	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.28	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.42	I	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.48	I	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.14	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.14	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.14	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.63		ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.14	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.14	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.14	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.28	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.28	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.28	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.2	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.28	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.14	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.56	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.28	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.28	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.28	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.28	U	ug/Kg	P403612	

Field ID: SB-22-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274197	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.28	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P403612	
2274209	SM 2540 G (20th)	% Solid	80.1		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 09:40

Field ID: SB-22-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274198	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.49	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.49	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.24	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.53	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.12	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.45	I	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.27	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	3.7		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	1.0		ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.24	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.24	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.24	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.46	I	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.23	I	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.24	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.24	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.24	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.0	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.24	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.49	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.24	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.24	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.24	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.24	U	ug/Kg	P403612	

Field ID: SB-22-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274198	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.24	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.98	U	ug/Kg	P403612	
2274210	SM 2540 G (20th)	% Solid	87.9		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 09:45

Field ID: SB-22-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274199	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.28	I	ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403612	

Field ID: SB-22-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274199	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403612	
2274211	SM 2540 G (20th)	% Solid	96.8		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 09:55

Field ID: SB-23-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274200	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.67	I	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.82	I	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.61	I	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.76	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.13	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.41	I	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.38	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	8.0		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	1.6		ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.26	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.76	I	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.60		ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.52	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.26	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P403612	

Field ID: SB-23-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274200	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.26	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P403612	
2274212	SM 2540 G (20th)	% Solid	82.5		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 10:00

Field ID: SB-23-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274201	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.094	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.28	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.094	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	1.8		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.28	I	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.26	I	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.094	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.094	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.094	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.094	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.094	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.094	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.094	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.094	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.094	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.094	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403612	

Field ID: SB-23-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274201	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.75	U	ug/Kg	P403612	
2274213	SM 2540 G (20th)	% Solid	97.2		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 10:05

Field ID: SB-23-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274202	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.39	I	ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403612	

Field ID: SB-23-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274202	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	I	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403612	
2274214	SM 2540 G (20th)	% Solid	97.7		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 10:00

Field ID: SB-24-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274291	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.46	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	1.0	I	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.43	I	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.33	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.23	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.26	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	2.9		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.51	I	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.25	I	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.23	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.29	I	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.46	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.23	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P403612	

Field ID: SB-24-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274291	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.92	U	ug/Kg	P403612	
2274303	SM 2540 G (20th)	% Solid	90.7		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 10:05

Field ID: SB-24-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274292	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.35	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.31	I	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.24	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	3.2		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.23	I	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.64	I	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.43	I	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P403612	

Field ID: SB-24-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274292	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P403612	
2274304	SM 2540 G (20th)	% Solid	94.5		%	P403679	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 10:10

Field ID: SB-24-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274293	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.098	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.61	I	ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.098	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.098	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403612	

Field ID: SB-24-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274293	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403612	
2274305	SM 2540 G (20th)	% Solid	97.3	A	%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 11:10

Field ID: SB-25-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274294	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.14	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.56	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.79	I	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.32	I	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.63	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.14	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.28	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.32	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	3.1		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.55	I	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.28	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.28	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.36	I	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.36	I	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.14	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.14	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.14	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.55	I	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.14	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.14	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.14	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.28	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.28	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.28	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.2	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.28	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.14	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.56	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.28	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.28	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.28	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.28	U	ug/Kg	P403612	

Field ID: SB-25-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274294	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.28	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P403612	
2274306	SM 2540 G (20th)	% Solid	76.7		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 11:15

Field ID: SB-25-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274295	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.34	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.27	I	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.21	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	1.4		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.46	I	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	I	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403612	

Field ID: SB-25-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274295	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	I	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403612	
2274307	SM 2540 G (20th)	% Solid	89.5		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 11:20

Field ID: SB-25-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274296	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	U	ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403612	

Field ID: SB-25-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274296	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403612	
2274308	SM 2540 G (20th)	% Solid	96.4		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 12:15

Field ID: SB-26-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274297	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.21	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.27	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	2.1		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.37	I	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403612	

Field ID: SB-26-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274297	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P403612	
2274309	SM 2540 G (20th)	% Solid	94.8		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 12:20

Field ID: SB-26-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274298	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.22	I	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.65	I	ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403612	

Field ID: SB-26-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274298	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P403612	
2274310	SM 2540 G (20th)	% Solid	97.0		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 12:30

Field ID: SB-26-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274299	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	U	ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403612	

Field ID: SB-26-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274299	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P403612	
2274311	SM 2540 G (20th)	% Solid	96.6		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 12:36

Field ID: SB-27-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274300	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.49	I	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.37	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.33	I	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.46	I	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	2.0		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.36	I	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403612	

Field ID: SB-27-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274300	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	0.80	U	ug/Kg	P403612	
2274312	SM 2540 G (20th)	% Solid	93.5		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 12:40

Field ID: SB-27-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274301	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	0.28	I	ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403612	

Field ID: SB-27-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274301	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403612	
2274313	SM 2540 G (20th)	% Solid	96.8		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 12:45

Field ID: SB-27-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274302	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403612	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403612	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403612	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403612	
		Perfluoroheptanoic acid (PFHpA)**	0.30	I	ug/Kg	P403612	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403612	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403612	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403612	
		Perfluorooctanesulfonic acid (PFOS)**	1.5		ug/Kg	P403612	
		Perfluorooctanoic acid (PFOA)**	0.20	I	ug/Kg	P403612	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403612	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403612	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403612	
		Perfluoropentanoic acid (PFPeA)**	0.30	I	ug/Kg	P403612	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403612	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403612	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403612	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403612	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403612	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403612	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403612	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403612	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403612	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403612	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403612	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403612	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403612	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403612	

Field ID: SB-27-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274302	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403612	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403612	
2274314	SM 2540 G (20th)	% Solid	97.2		%	P403680	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 13:30

Field ID: SB-28-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274342	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.66	I	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.73	I	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.48	I	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403631	

Field ID: SB-28-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274342	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P403631	
2274356	SM 2540 G (20th)	% Solid	93.7	A	%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 13:35

Field ID: SB-28-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274343	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.098	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.20	U	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.098	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.098	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403631	

Field ID: SB-28-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274343	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403631	
2274357	SM 2540 G (20th)	% Solid	98.0		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 13:40

Field ID: SB-28-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274344	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.099	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.20	U	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403631	

Field ID: SB-28-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274344	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P403631	
2274358	SM 2540 G (20th)	% Solid	96.6		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 13:40

Field ID: SB-29-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274345	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	U	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403631	

Field ID: SB-29-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274345	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403631	
2274359	SM 2540 G (20th)	% Solid	97.2		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 13:45

Field ID: SB-29-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274346	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.088	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.35	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.35	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.18	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.18	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.088	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.18	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.18	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.18	U	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.18	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.18	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.18	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.18	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.18	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.088	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.088	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.088	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.088	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.088	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.088	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.088	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.088	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.18	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.18	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.18	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.4	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.18	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.088	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.088	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.35	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.18	U	ug/Kg	P403631	

Field ID: SB-29-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274346	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.18	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.71	U	ug/Kg	P403631	
2274360	SM 2540 G (20th)	% Solid	98.0		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 13:50

Field ID: SB-29-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274347	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	U	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403631	

Field ID: SB-29-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274347	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403631	
2274361	SM 2540 G (20th)	% Solid	97.0		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:00

Field ID: SB-30-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274348	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.098	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	1.8		ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.098	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.21	I	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403631	

Field ID: SB-30-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274348	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403631	
2274362	SM 2540 G (20th)	% Solid	97.3		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:05

Field ID: SB-30-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274349	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.092	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.37	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.37	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.18	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.18	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.092	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.18	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.18	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	1.0		ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.18	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.18	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.18	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.18	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.18	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.092	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.092	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.092	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.092	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.092	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.092	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.092	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.092	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.18	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.18	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.18	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.18	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.092	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.092	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.37	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.18	U	ug/Kg	P403631	

Field ID: SB-30-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274349	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.18	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.74	U	ug/Kg	P403631	
2274363	SM 2540 G (20th)	% Solid	98.0		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:15

Field ID: SB-30-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274350	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.27	I	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403631	

Field ID: SB-30-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274350	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403631	
2274364	SM 2540 G (20th)	% Solid	98.3		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:10

Field ID: SB-31-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274351	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.098	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.32	I	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.098	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.098	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403631	

Field ID: SB-31-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274351	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403631	
2274365	SM 2540 G (20th)	% Solid	95.9		%	P403682	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:15

Field ID: SB-31-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274352	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.088	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.35	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.35	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.18	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.18	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.088	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.18	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.18	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.18	U	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.18	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.18	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.18	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.18	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.18	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.088	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.088	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.088	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.088	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.088	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.088	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.088	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.088	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.18	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.18	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.18	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.4	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.18	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.088	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.088	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.35	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.18	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.18	U	ug/Kg	P403631	

Field ID: SB-31-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274352	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.18	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.70	U	ug/Kg	P403631	
2274366	SM 2540 G (20th)	% Solid	98.5	A	%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:25

Field ID: SB-31-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274353	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.094	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.094	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.19	U	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.094	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.094	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.094	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.094	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.094	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.094	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.094	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.094	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.094	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.094	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403631	

Field ID: SB-31-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274353	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.75	U	ug/Kg	P403631	
2274367	SM 2540 G (20th)	% Solid	99.2		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:40

Field ID: SB-32-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274371	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.59	I	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.54	I	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.21	I	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	6.3		ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.45	I	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.55		ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403631	

Field ID: SB-32-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274371	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P403631	
2274383	SM 2540 G (20th)	% Solid	92.0		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:45

Field ID: SB-32-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274372	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.096	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.096	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	1.1		ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.096	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.096	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.096	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.096	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.096	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.096	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.096	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.096	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.096	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.096	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403631	

Field ID: SB-32-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274372	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403631	
2274384	SM 2540 G (20th)	% Solid	97.9		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:55

Field ID: SB-32-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274373	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.095	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.33	I	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.095	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.095	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.095	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.095	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403631	

Field ID: SB-32-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274373	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P403631	
2274385	SM 2540 G (20th)	% Solid	97.2		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 09:15

Field ID: SB-33-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274374	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	3.1		ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.15	I	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403631	

Field ID: SB-33-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274374	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P403631	
2274386	SM 2540 G (20th)	% Solid	91.8		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 09:20

Field ID: SB-33-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274375	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.40	I	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403631	

Field ID: SB-33-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274375	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403631	
2274387	SM 2540 G (20th)	% Solid	98.0		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 09:25

Field ID: SB-33-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274376	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.094	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.37	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.37	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.094	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.69	I	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.094	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.094	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.094	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.094	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.094	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.094	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.094	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.094	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.094	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.094	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.37	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403631	

Field ID: SB-33-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274376	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.75	U	ug/Kg	P403631	
2274388	SM 2540 G (20th)	% Solid	97.1		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 09:45

Field ID: SB-34-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274377	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.55	I	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.49	I	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.099	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.23	I	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.97		ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.29	I	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.28	I	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.49	I	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.32	I	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.26	I	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403631	

Field ID: SB-34-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274377	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P403631	
2274389	SM 2540 G (20th)	% Solid	92.7		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 09:50

Field ID: SB-34-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274378	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403631	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403631	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403631	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403631	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403631	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403631	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403631	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403631	
		Perfluorooctanesulfonic acid (PFOS)**	0.24	I	ug/Kg	P403631	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403631	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403631	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403631	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403631	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403631	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403631	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403631	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403631	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403631	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403631	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403631	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403631	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403631	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403631	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403631	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403631	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403631	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403631	

Field ID: SB-34-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274378	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403631	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403631	
2274390	SM 2540 G (20th)	% Solid	96.6		%	P403683	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 09:55

Field ID: SB-34-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274379	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.095	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.19	U	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.095	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.095	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.095	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.095	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403634	

Field ID: SB-34-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274379	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P403634	
2274391	SM 2540 G (20th)	% Solid	97.6	A	%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 10:15

Field ID: SB-35-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274380	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.77	I	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.88	I	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.24	I	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.38	I	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	1.6		ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	3.6		ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	1.9		ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.37	I	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.34	I	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.73	I	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	3.2		ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.15	I	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403634	

Field ID: SB-35-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274380	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403634	
2274392	SM 2540 G (20th)	% Solid	94.3		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 10:20

Field ID: SB-35-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274381	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.44	I	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.42	I	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.26	I	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.098	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.59	I	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.71	I	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	3.0		ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.38	I	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.25	I	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	1.2		ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.098	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.098	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403634	

Field ID: SB-35-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274381	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403634	
2274393	SM 2540 G (20th)	% Solid	96.3		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 10:25

Field ID: SB-35-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274382	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.095	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.68	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.095	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.095	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.095	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.095	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403634	

Field ID: SB-35-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274382	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P403634	
2274394	SM 2540 G (20th)	% Solid	96.7		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 10:30

Field ID: SB-36-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274399	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.65	I	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.77	I	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.43	I	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	1.1		ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.12	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.76	I	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.40	I	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	14		ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	1.8		ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.24	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.24	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.48	I	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	1.5		ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.37	I	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.24	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.24	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.24	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.24	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.48	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.24	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.24	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.24	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.24	U	ug/Kg	P403634	

Field ID: SB-36-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274399	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.24	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.96	U	ug/Kg	P403634	
2274410	SM 2540 G (20th)	% Solid	86.6		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 10:35

Field ID: SB-36-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274400	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.24	I	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.26	I	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	4.3		ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.45	I	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.48	I	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403634	

Field ID: SB-36-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274400	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403634	
2274411	SM 2540 G (20th)	% Solid	92.0		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 10:45

Field ID: SB-37-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274401	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.54	I	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.24	I	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.28	I	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.38	I	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	8.9		ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.49	I	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.52	I	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.30	I	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P403634	

Field ID: SB-37-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274401	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.90	U	ug/Kg	P403634	
2274412	SM 2540 G (20th)	% Solid	92.7		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 10:50

Field ID: SB-37-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274402	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	5.4		ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403634	

Field ID: SB-37-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274402	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403634	
2274413	SM 2540 G (20th)	% Solid	97.2		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 10:55

Field ID: SB-37-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274403	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.76	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403634	

Field ID: SB-37-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274403	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403634	
2274414	SM 2540 G (20th)	% Solid	97.7		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 11:20

Field ID: SB-38-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274404	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.73	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P403634	

Field ID: SB-38-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274404	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.90	U	ug/Kg	P403634	
2274415	SM 2540 G (20th)	% Solid	89.9		%	P403744	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 11:25

Field ID: SB-38-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274405	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.090	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.36	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.36	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.18	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.18	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.090	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.18	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.18	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.46	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.18	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.18	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.18	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.18	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.18	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.090	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.090	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.090	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.090	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.090	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.090	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.090	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.090	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.18	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.18	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.18	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.4	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.18	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.090	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.090	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.36	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.18	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.18	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.18	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.18	U	ug/Kg	P403634	

Field ID: SB-38-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274405	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.18	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.72	U	ug/Kg	P403634	
2274416	SM 2540 G (20th)	% Solid	98.2	A	%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 11:30

Field ID: SB-38-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274406	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.098	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.31	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.098	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.098	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403634	

Field ID: SB-38-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274406	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403634	
2274417	SM 2540 G (20th)	% Solid	97.0		%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 11:35

Field ID: SB-39-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274407	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.47	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403634	

Field ID: SB-39-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274407	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403634	
2274418	SM 2540 G (20th)	% Solid	95.9		%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 11:40

Field ID: SB-39-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274408	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.19	I	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.95		ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.22	I	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403634	

Field ID: SB-39-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274408	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P403634	
2274419	SM 2540 G (20th)	% Solid	97.2		%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 11:45

Field ID: SB-39-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274409	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.098	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.098	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.24	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.098	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.098	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.098	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.098	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.098	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.098	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.098	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.098	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403634	

Field ID: SB-39-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274409	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403634	
2274420	SM 2540 G (20th)	% Solid	96.8		%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 12:20

Field ID: SB-40-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274521	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	2.0		ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.68	I	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P403634	

Field ID: SB-40-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274521	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.88	U	ug/Kg	P403634	
2274533	SM 2540 G (20th)	% Solid	93.7		%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 12:25

Field ID: SB-40-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274522	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.38	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.22	I	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403634	

Field ID: SB-40-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274522	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403634	
2274534	SM 2540 G (20th)	% Solid	97.4		%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 12:30

Field ID: SB-40-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274523	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.35	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403634	

Field ID: SB-40-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274523	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P403634	
2274535	SM 2540 G (20th)	% Solid	96.8		%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 12:35

Field ID: SB-41-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274524	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.36	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403634	

Field ID: SB-41-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274524	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P403634	
2274536	SM 2540 G (20th)	% Solid	93.3		%	P403745	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 12:40

Field ID: SB-41-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274525	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P403634	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403634	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403634	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403634	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403634	
		Perfluorohexanesulfonic acid (PFHxS)**	0.099	U	ug/Kg	P403634	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403634	
		Perfluorononanoic acid (PFNA)**	0.20	UJ	ug/Kg	P403634	RPD
		Perfluorooctanesulfonic acid (PFOS)**	0.33	I	ug/Kg	P403634	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403634	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403634	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403634	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403634	
		Perfluoropentanesulfonic acid (PFPeS)**	0.099	U	ug/Kg	P403634	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P403634	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P403634	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P403634	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P403634	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P403634	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P403634	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P403634	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403634	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403634	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403634	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P403634	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P403634	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403634	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403634	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403634	

Field ID: SB-41-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274525	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403634	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P403634	
2274537	SM 2540 G (20th)	% Solid	97.8		%	P403745	

Ref. Method and Comment:

DEP SOP: LC-001-3: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 12:45

Field ID: SB-41-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274526	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.20	I	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403462	

Field ID: SB-41-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274526	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403462	
2274538	SM 2540 G (20th)	% Solid	97.2	A	%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 12:50

Field ID: SB-42-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274527	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.34	I	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.37	I	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	4.6		ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	1.0		ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	2.5		ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.45	I	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403462	

Field ID: SB-42-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274527	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P403462	
2274539	SM 2540 G (20th)	% Solid	95.8		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 12:55

Field ID: SB-42-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274528	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.61	I	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.30	I	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403462	

Field ID: SB-42-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274528	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403462	
2274540	SM 2540 G (20th)	% Solid	98.6		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:00

Field ID: SB-42-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274529	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.38	I	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.25	I	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403462	

Field ID: SB-42-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274529	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403462	
2274541	SM 2540 G (20th)	% Solid	97.1		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:05

Field ID: SB-43-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274530	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.30	I	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.81		ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.63	I	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403462	

Field ID: SB-43-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274530	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P403462	
2274542	SM 2540 G (20th)	% Solid	95.9		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:10

Field ID: SB-43-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274531	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.30	I	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403462	

Field ID: SB-43-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274531	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403462	
2274543	SM 2540 G (20th)	% Solid	98.5		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:15

Field ID: SB-43-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274532	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.20	U	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403462	

Field ID: SB-43-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274532	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403462	
2274544	SM 2540 G (20th)	% Solid	97.1		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:20

Field ID: SB-44-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274545	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	2.2		ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	2.2		ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.54	I	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.22	I	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.38	I	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.71	I	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.58	I	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.56	I	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	2.0		ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.28	I	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403462	

Field ID: SB-44-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274545	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P403462	
2274557	SM 2540 G (20th)	% Solid	96.7		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:25

Field ID: SB-44-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274546	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	1.2	I	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.30	I	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.47	I	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.27	I	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.62	I	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	1.6		ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.59	I	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.55	I	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.54	I	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.32	I	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403462	

Field ID: SB-44-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274546	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403462	
2274558	SM 2540 G (20th)	% Solid	96.4		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:30

Field ID: SB-44-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274547	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.21	I	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.41	I	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403462	

Field ID: SB-44-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274547	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403462	
2274559	SM 2540 G (20th)	% Solid	98.1		%	P403808	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:35

Field ID: SB-45-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274548	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.097	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.49	I	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.097	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	I	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.49	I	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.19	I	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.097	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.097	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.097	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.097	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.097	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.097	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.097	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.097	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403462	

Field ID: SB-45-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274548	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.78	U	ug/Kg	P403462	
2274560	SM 2540 G (20th)	% Solid	98.0	A	%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:40

Field ID: SB-45-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274549	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.095	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.095	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.095	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.095	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.095	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403462	

Field ID: SB-45-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274549	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P403462	
2274561	SM 2540 G (20th)	% Solid	96.8		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:45

Field ID: SB-45-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274550	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.20	U	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.29	I	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P403462	

Field ID: SB-45-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274550	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.80	U	ug/Kg	P403462	
2274562	SM 2540 G (20th)	% Solid	97.2		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 14:05

Field ID: SB-46-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274551	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.29	I	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.23	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.32	I	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	1.3		ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.36	I	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	1.1		ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.23	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P403462	

Field ID: SB-46-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274551	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.91	U	ug/Kg	P403462	
2274563	SM 2540 G (20th)	% Solid	91.6		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 14:10

Field ID: SB-46-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274552	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.73	I	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.26	I	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.38	I	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403462	

Field ID: SB-46-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274552	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P403462	
2274564	SM 2540 G (20th)	% Solid	94.9		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 14:15

Field ID: SB-46-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274553	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.096	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.096	U	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.096	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.096	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.096	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.096	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.096	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.096	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.096	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.096	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.096	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.096	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403462	

Field ID: SB-46-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274553	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403462	
2274565	SM 2540 G (20th)	% Solid	97.8		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 14:20

Field ID: SB-47-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274554	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	1.4		ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.54	I	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.26	I	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	11		ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.37	I	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.64	I	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	1.1		ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.35	I	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.13	I	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	I	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403462	

Field ID: SB-47-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274554	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P403462	
2274566	SM 2540 G (20th)	% Solid	92.9		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 14:25

Field ID: SB-47-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274555	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.092	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.37	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.37	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.18	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.18	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.27	I	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.18	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.18	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	5.3		ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.18	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.18	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.18	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.18	U	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.18	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.092	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.092	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.092	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.092	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.092	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.092	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.092	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.092	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.18	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.18	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.18	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.18	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.092	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.092	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.37	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.18	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.18	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.18	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.18	U	ug/Kg	P403462	

Field ID: SB-47-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274555	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.18	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.74	U	ug/Kg	P403462	
2274567	SM 2540 G (20th)	% Solid	98.0		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 14:30

Field ID: SB-47-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274556	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.096	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.39	U	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.39	U	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	0.16	I	ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	4.0		ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.096	U	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.096	U	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.096	U	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.096	U	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.096	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.096	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.096	U	ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.096	U	ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.096	U	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.096	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.39	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P403462	

Field ID: SB-47-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274556	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.77	U	ug/Kg	P403462	
2274568	SM 2540 G (20th)	% Solid	96.8		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 15:00

Field ID: SB-5R-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274569	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P403462	
		Perfluorobutanoic acid (PFBA)**	0.46	I	ug/Kg	P403462	
		Perfluorodecanoic acid (PFDA)**	0.51	I	ug/Kg	P403462	
		Perfluorododecanoic acid (PFDoA)**	0.42	I	ug/Kg	P403462	
		Perfluoroheptanoic acid (PFHpA)**	1.5		ug/Kg	P403462	
		Perfluorohexanesulfonic acid (PFHxS)**	2.7		ug/Kg	P403462	
		Perfluorohexanoic acid (PFHxA)**	2.6		ug/Kg	P403462	
		Perfluorononanoic acid (PFNA)**	0.93		ug/Kg	P403462	
		Perfluorooctanesulfonic acid (PFOS)**	82		ug/Kg	P403462	
		Perfluorooctanoic acid (PFOA)**	1.3		ug/Kg	P403462	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P403462	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P403462	
		Perfluoroundecanoic acid (PFUnA)**	0.31	I	ug/Kg	P403462	
		Perfluoropentanoic acid (PFPeA)**	2.7		ug/Kg	P403462	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	I	ug/Kg	P403462	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.30	I	ug/Kg	P403462	
		Perfluorononanesulfonic acid (PFNS)**	0.32	I	ug/Kg	P403462	
		Perfluorodecanesulfonic acid (PFDS)**	0.34	I	ug/Kg	P403462	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P403462	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	5.8		ug/Kg	P403462	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.7		ug/Kg	P403462	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P403462	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	15		ug/Kg	P403462	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	18		ug/Kg	P403462	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	I	ug/Kg	P403462	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P403462	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P403462	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P403462	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P403462	

Field ID: SB-5R-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274569	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P403462	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P403462	
2274581	SM 2540 G (20th)	% Solid	96.7		%	P403809	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 12:30

Field ID: EQB-1

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274572	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403720	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403720	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403720	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403720	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403720	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403720	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403720	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403720	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403720	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403720	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403720	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403720	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403720	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403720	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403720	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403720	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403720	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403720	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403720	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403720	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403720	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403720	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403720	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403720	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403720	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403720	

Field ID: EQB-1

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274572	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403720	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403720	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform matrix spikes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 08/31/2021 17:10

Field ID: EQB-2

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274573	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403720	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403720	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403720	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403720	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403720	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403720	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403720	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403720	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403720	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403720	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403720	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403720	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403720	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403720	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403720	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403720	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403720	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403720	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403720	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403720	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403720	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403720	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403720	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403720	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403720	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403720	

Field ID: EQB-2

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274573	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403720	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403720	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform matrix spikes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 12:30

Field ID: EQB-3

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274574	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403720	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403720	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403720	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403720	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403720	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403720	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403720	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403720	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403720	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403720	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403720	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403720	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403720	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403720	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403720	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403720	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403720	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403720	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403720	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403720	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403720	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403720	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403720	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403720	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403720	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403720	

Field ID: EQB-3

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274574	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403720	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403720	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform matrix spikes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 17:05

Field ID: EQB-4

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274575	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403720	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403720	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403720	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403720	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403720	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403720	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403720	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403720	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403720	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403720	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403720	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403720	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403720	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403720	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403720	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403720	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403720	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403720	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403720	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403720	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403720	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403720	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403720	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403720	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403720	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403720	

Field ID: EQB-4

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274575	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403720	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403720	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform matrix spikes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 09:05

Field ID: EQB-5

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274576	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403720	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403720	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403720	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403720	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403720	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403720	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403720	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403720	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403720	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403720	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403720	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403720	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403720	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403720	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403720	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403720	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403720	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403720	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403720	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403720	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403720	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403720	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403720	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403720	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403720	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403720	

Field ID: EQB-5

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274576	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403720	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403720	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform matrix spikes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 11:50

Field ID: EQB-6

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274577	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403720	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403720	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403720	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403720	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403720	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403720	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403720	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403720	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403720	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403720	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403720	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403720	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403720	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403720	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403720	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403720	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403720	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403720	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403720	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403720	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403720	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403720	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403720	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403720	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403720	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403720	

Field ID: EQB-6

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274577	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403720	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403720	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform matrix spikes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/02/2021 13:50

Field ID: EQB-7

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274578	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403720	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403720	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403720	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403720	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403720	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403720	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403720	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403720	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403720	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403720	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403720	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403720	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403720	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403720	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403720	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403720	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403720	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403720	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403720	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403720	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403720	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403720	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403720	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403720	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403720	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403720	

Field ID: EQB-7

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274578	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403720	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403720	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform matrix spikes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 14:35

Field ID: FRB-SB-32

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274579	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403720	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403720	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403720	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403720	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403720	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403720	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403720	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403720	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403720	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403720	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403720	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403720	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403720	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403720	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403720	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403720	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403720	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403720	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403720	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403720	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403720	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403720	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403720	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403720	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403720	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403720	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403720	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403720	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403720	

Field ID: FRB-SB-32

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274579	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403720	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403720	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform matrix spikes.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 17:10

Field ID: FRB-SW-2

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274580	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403818	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P403818	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403818	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403818	RPD
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403818	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403818	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P403818	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403818	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403818	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403818	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P403818	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403818	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403818	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403818	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403818	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403818	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403818	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403818	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403818	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403818	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403818	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403818	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403818	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403818	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403818	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403818	

Field ID: FRB-SW-2

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274580	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403818	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403818	RPD

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 16:30

Field ID: SED-1

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274570	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.14	U	ug/Kg	P404198	
		Perfluorobutanoic acid (PFBA)**	0.57	U	ug/Kg	P404198	
		Perfluorodecanoic acid (PFDA)**	0.57	U	ug/Kg	P404198	
		Perfluorododecanoic acid (PFDoA)**	0.29	U	ug/Kg	P404198	
		Perfluoroheptanoic acid (PFHpA)**	0.29	U	ug/Kg	P404198	
		Perfluorohexanesulfonic acid (PFHxS)**	0.14	U	ug/Kg	P404198	
		Perfluorohexanoic acid (PFHxA)**	0.29	U	ug/Kg	P404198	
		Perfluorononanoic acid (PFNA)**	0.29	U	ug/Kg	P404198	
		Perfluorooctanesulfonic acid (PFOS)**	0.29	U	ug/Kg	P404198	
		Perfluorooctanoic acid (PFOA)**	0.29	U	ug/Kg	P404198	
		Perfluorotetradecanoic acid (PFTeA)**	0.29	U	ug/Kg	P404198	
		Perfluorotridecanoic acid (PFTriA)**	0.29	U	ug/Kg	P404198	
		Perfluoroundecanoic acid (PFUnA)**	0.29	U	ug/Kg	P404198	
		Perfluoropentanoic acid (PFPeA)**	0.29	U	ug/Kg	P404198	
		Perfluoropentanesulfonic acid (PFPeS)**	0.14	U	ug/Kg	P404198	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.14	U	ug/Kg	P404198	
		Perfluorononanesulfonic acid (PFNS)**	0.14	U	ug/Kg	P404198	
		Perfluorodecanesulfonic acid (PFDS)**	0.14	U	ug/Kg	P404198	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.14	U	ug/Kg	P404198	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.14	U	ug/Kg	P404198	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	U	ug/Kg	P404198	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.14	U	ug/Kg	P404198	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.29	U	ug/Kg	P404198	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.29	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.29	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.3	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.29	U	ug/Kg	P404198	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	U	ug/Kg	P404198	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.14	U	ug/Kg	P404198	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.57	U	ug/Kg	P404198	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.29	U	ug/Kg	P404198	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.29	U	ug/Kg	P404198	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.29	U	ug/Kg	P404198	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.29	U	ug/Kg	P404198	

Field ID: SED-1

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274570	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.29	U	ug/Kg	P404198	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	1.1	U	ug/Kg	P404198	
2274591	SM 2540 G (20th)	% Solid	75.7	A	%	P403811	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 17:00

Field ID: SED-2

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274571	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.14	U	ug/Kg	P404198	
		Perfluorobutanoic acid (PFBA)**	0.54	U	ug/Kg	P404198	
		Perfluorodecanoic acid (PFDA)**	0.54	U	ug/Kg	P404198	
		Perfluorododecanoic acid (PFDoA)**	0.27	U	ug/Kg	P404198	
		Perfluoroheptanoic acid (PFHpA)**	0.27	U	ug/Kg	P404198	
		Perfluorohexanesulfonic acid (PFHxS)**	0.14	U	ug/Kg	P404198	
		Perfluorohexanoic acid (PFHxA)**	0.27	U	ug/Kg	P404198	
		Perfluorononanoic acid (PFNA)**	0.27	U	ug/Kg	P404198	
		Perfluorooctanesulfonic acid (PFOS)**	0.27	U	ug/Kg	P404198	
		Perfluorooctanoic acid (PFOA)**	0.27	U	ug/Kg	P404198	
		Perfluorotetradecanoic acid (PFTeA)**	0.27	U	ug/Kg	P404198	
		Perfluorotridecanoic acid (PFTriA)**	0.27	U	ug/Kg	P404198	
		Perfluoroundecanoic acid (PFUnA)**	0.27	U	ug/Kg	P404198	
		Perfluoropentanoic acid (PFPeA)**	0.27	U	ug/Kg	P404198	
		Perfluoropentanesulfonic acid (PFPeS)**	0.14	U	ug/Kg	P404198	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.14	U	ug/Kg	P404198	
		Perfluorononanesulfonic acid (PFNS)**	0.14	U	ug/Kg	P404198	
		Perfluorodecanesulfonic acid (PFDS)**	0.14	U	ug/Kg	P404198	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.14	U	ug/Kg	P404198	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.14	U	ug/Kg	P404198	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	U	ug/Kg	P404198	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.14	U	ug/Kg	P404198	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.27	U	ug/Kg	P404198	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.27	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.27	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.2	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.27	U	ug/Kg	P404198	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	U	ug/Kg	P404198	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.14	U	ug/Kg	P404198	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.54	U	ug/Kg	P404198	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.27	U	ug/Kg	P404198	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.27	U	ug/Kg	P404198	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.27	U	ug/Kg	P404198	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.27	U	ug/Kg	P404198	

Field ID: SED-2

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274571	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.27	U	ug/Kg	P404198	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	1.1	U	ug/Kg	P404198	
2274592	SM 2540 G (20th)	% Solid	77.3		%	P403811	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 17:35

Field ID: SED-3

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274593	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	U	ug/Kg	P404198	
		Perfluorobutanoic acid (PFBA)**	0.52	U	ug/Kg	P404198	
		Perfluorodecanoic acid (PFDA)**	0.52	U	ug/Kg	P404198	
		Perfluorododecanoic acid (PFDoA)**	0.26	U	ug/Kg	P404198	
		Perfluoroheptanoic acid (PFHpA)**	0.26	U	ug/Kg	P404198	
		Perfluorohexanesulfonic acid (PFHxS)**	0.13	U	ug/Kg	P404198	
		Perfluorohexanoic acid (PFHxA)**	0.26	U	ug/Kg	P404198	
		Perfluorononanoic acid (PFNA)**	0.26	U	ug/Kg	P404198	
		Perfluorooctanesulfonic acid (PFOS)**	0.33	I	ug/Kg	P404198	
		Perfluorooctanoic acid (PFOA)**	0.26	U	ug/Kg	P404198	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P404198	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P404198	
		Perfluoroundecanoic acid (PFUnA)**	0.65	I	ug/Kg	P404198	
		Perfluoropentanoic acid (PFPeA)**	0.26	U	ug/Kg	P404198	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	U	ug/Kg	P404198	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P404198	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P404198	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P404198	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P404198	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P404198	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P404198	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P404198	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P404198	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P404198	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P404198	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P404198	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P404198	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.52	U	ug/Kg	P404198	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.26	U	ug/Kg	P404198	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P404198	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P404198	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P404198	

Field ID: SED-3

Matrix: SEDIMENT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274593	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.26	U	ug/Kg	P404198	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	1.0	U	ug/Kg	P404198	
2274598	SM 2540 G (20th)	% Solid	75.4		%	P403811	

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 16:20

Field ID: SW-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274594	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P403818	
		Perfluorobutanoic acid (PFBA)**	4.5	I	ng/L	P403818	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403818	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403818	RPD
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P403818	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P403818	
		Perfluorohexanoic acid (PFHxA)**	2.6	I	ng/L	P403818	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403818	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P403818	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P403818	
		Perfluoropentanoic acid (PFPeA)**	4.2	I	ng/L	P403818	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403818	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403818	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403818	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P403818	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403818	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403818	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403818	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403818	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403818	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403818	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403818	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403818	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403818	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403818	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403818	

Field ID: SW-1

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274594	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403818	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403818	RPD

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 16:55

Field ID: SW-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274595	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.1		ng/L	P403818	
		Perfluorobutanoic acid (PFBA)**	13	I	ng/L	P403818	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403818	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403818	RPD
		Perfluoroheptanoic acid (PFHpA)**	4.7	I	ng/L	P403818	
		Perfluorohexanesulfonic acid (PFHxS)**	3.1	I	ng/L	P403818	
		Perfluorohexanoic acid (PFHxA)**	11		ng/L	P403818	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403818	
		Perfluorooctanoic acid (PFOA)**	9.1		ng/L	P403818	
		Perfluorooctanesulfonic acid (PFOS)**	15		ng/L	P403818	
		Perfluoropentanoic acid (PFPeA)**	13		ng/L	P403818	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403818	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403818	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403818	
		Perfluoropentanesulfonic acid (PFPeS)**	0.51	I	ng/L	P403818	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403818	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403818	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403818	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.54	I	ng/L	P403818	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403818	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403818	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403818	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403818	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403818	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403818	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403818	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403818	

Field ID: SW-2

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274595	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403818	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P403818	RPD

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 17:30

Field ID: SW-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274596	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.4		ng/L	P403818	
		Perfluorobutanoic acid (PFBA)**	13	I	ng/L	P403818	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403818	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403818	RPD
		Perfluoroheptanoic acid (PFHpA)**	4.4	I	ng/L	P403818	
		Perfluorohexanesulfonic acid (PFHxS)**	3.1	I	ng/L	P403818	
		Perfluorohexanoic acid (PFHxA)**	8.5		ng/L	P403818	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403818	
		Perfluorooctanoic acid (PFOA)**	6.7	I	ng/L	P403818	
		Perfluorooctanesulfonic acid (PFOS)**	14		ng/L	P403818	
		Perfluoropentanoic acid (PFPeA)**	14		ng/L	P403818	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403818	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403818	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403818	
		Perfluoropentanesulfonic acid (PFPeS)**	0.54	I	ng/L	P403818	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403818	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403818	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403818	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.48	I	ng/L	P403818	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403818	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403818	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403818	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403818	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403818	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403818	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403818	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403818	

Field ID: SW-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274596	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403818	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403818	RPD

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Miami Dade College – Fire Training Facility

Collection Date/Time: 09/01/2021 17:30

Field ID: DUP-SW-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274597	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.2		ng/L	P403818	
		Perfluorobutanoic acid (PFBA)**	13	I	ng/L	P403818	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P403818	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P403818	RPD
		Perfluoroheptanoic acid (PFHpA)**	4.3	I	ng/L	P403818	
		Perfluorohexanesulfonic acid (PFHxS)**	3.3		ng/L	P403818	
		Perfluorohexanoic acid (PFHxA)**	9.6		ng/L	P403818	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P403818	
		Perfluorooctanoic acid (PFOA)**	6.3	I	ng/L	P403818	
		Perfluorooctanesulfonic acid (PFOS)**	15		ng/L	P403818	
		Perfluoropentanoic acid (PFPeA)**	13		ng/L	P403818	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P403818	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P403818	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P403818	
		Perfluoropentanesulfonic acid (PFPeS)**	0.54	I	ng/L	P403818	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P403818	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P403818	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P403818	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.50	I	ng/L	P403818	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P403818	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P403818	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P403818	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P403818	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P403818	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P403818	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P403818	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P403818	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P403818	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P403818	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P403818	

Field ID: DUP-SW-3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2274597	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P403818	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P403818	RPD

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P403459

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3

Batch ID: P403460

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403460

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403462

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P403462

Component	Result	Code	Units
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3
Batch ID: P403612

Component	Result	Code	Units
11-Chloroheptacosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P403612

Component	Result	Code	Units
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3
Batch ID: P403631

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3
Batch ID: P403634

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P403634

Component	Result	Code	Units
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3

Batch ID: P403720

Component	Result	Code	Units
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.40	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.40	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P403720

Component	Result	Code	Units
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3
Batch ID: P403818

Component	Result	Code	Units
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.40	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.40	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P403818

Component	Result	Code	Units
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P404198

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P403459

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	77.2		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.9		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	111		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	93.2		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	149		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	89.7		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.1		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	94.5		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.6		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	79.8		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	79.0		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	102		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	91.6		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.0		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	96.7		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	87.2		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	95.2		P	40 - 160
Perfluorobutanoic acid (PFBA)	90.9		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	81.8		P	40 - 160
Perfluorodecanoic acid (PFDA)	155		P	40 - 160
Perfluorododecanoic acid (PFDoA)	108		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	83.5		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	93.4		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	105		P	40 - 160
Perfluorohexanoic acid (PFHxA)	103		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	97.2		P	40 - 160
Perfluorononanoic acid (PFNA)	94.9		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	95.3		P	40 - 160
Perfluorooctanoic acid (PFOA)	94.8		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	91.2		P	40 - 160
Perfluoropentanoic acid (PFPeA)	102		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	100		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	113		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	143		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	111		P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P403460

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	76.0		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	118		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	94.1		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	86.5		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	76.4		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.6		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	82.7		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	46.3		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	74.8		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403460

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	77.2		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	102		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	79.0		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	77.0		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	90.2		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	81.8		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	91.6		P	40 - 160
Perfluorobutanoic acid (PFBA)	90.7		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	80.3		P	40 - 160
Perfluorodecanoic acid (PFDA)	88.4		P	40 - 160
Perfluorododecanoic acid (PFDoA)	118		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.6		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	89.2		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	94.0		P	40 - 160
Perfluorohexanoic acid (PFHxA)	104		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	93.2		P	40 - 160
Perfluorononanoic acid (PFNA)	80.5		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	92.9		P	40 - 160
Perfluorooctanoic acid (PFOA)	75.6		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	87.4		P	40 - 160
Perfluoropentanoic acid (PFPeA)	107		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	91.7		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	87.2		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	143		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	112		P	40 - 160

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403462

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.6		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.0		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	107		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.4		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	83.2		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	95.5		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	100		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	106		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	113		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	95.5		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	94.6		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.8		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	101		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	95.8		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	116		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	98.4		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	94.7		P	40 - 160
Perfluorobutanoic acid (PFBA)	94.3		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	100		P	40 - 160
Perfluorodecanoic acid (PFDA)	122		P	40 - 160
Perfluorododecanoic acid (PFDoA)	79.0		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P403462

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	93.9		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	105		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	98.5		P	40 - 160
Perfluorohexanoic acid (PFHxA)	88.2		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	97.9		P	40 - 160
Perfluorononanoic acid (PFNA)	94.0		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	96.1		P	40 - 160
Perfluorooctanoic acid (PFOA)	105		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	91.8		P	40 - 160
Perfluoropentanoic acid (PFPeA)	88.2		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	108		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	101		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	133		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	158		P	40 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P403612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	73.2		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	118		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	113		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	84.2		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	149		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	86.3		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	124		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	82.8		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	56.9		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	77.0		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	79.1		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	90.9		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	95.5		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	77.5		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	102		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	81.5		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	94.6		P	40 - 160
Perfluorobutanoic acid (PFBA)	93.9		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	81.5		P	40 - 160
Perfluorodecanoic acid (PFDA)	80.1		P	40 - 160
Perfluorododecanoic acid (PFDoA)	99.5		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	80.8		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	87.2		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	94.9		P	40 - 160
Perfluorohexanoic acid (PFHxA)	95.6		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	87.4		P	40 - 160
Perfluorononanoic acid (PFNA)	115		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	87.0		P	40 - 160
Perfluorooctanoic acid (PFOA)	112		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	87.2		P	40 - 160
Perfluoropentanoic acid (PFPeA)	114		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	103		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P403612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluorotetradecanoic acid (PFTeA)	81.7		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	117		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	104		P	40 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P403631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	73.7		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	109		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	99.8		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	75.5		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	155		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	86.0		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	105		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	93.3		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	98.6		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	54.4		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	78.2		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	76.3		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	97.9		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	91.2		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.7		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	102		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	75.1		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	95.3		P	40 - 160
Perfluorobutanoic acid (PFBA)	93.0		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	78.1		P	40 - 160
Perfluorodecanoic acid (PFDA)	87.7		P	40 - 160
Perfluorododecanoic acid (PFDoA)	88.4		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	74.3		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	85.9		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	83.7		P	40 - 160
Perfluorohexanoic acid (PFHxA)	91.8		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	96.2		P	40 - 160
Perfluorononanoic acid (PFNA)	112		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	84.7		P	40 - 160
Perfluorooctanoic acid (PFOA)	82.4		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	86.0		P	40 - 160
Perfluoropentanoic acid (PFPeA)	86.9		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.3		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	98.4		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	138		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	74.2		P	40 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P403634

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	78.4		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	128		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P403634

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	84.3		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	80.3		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.4		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	86.8		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.7		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	63.4		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	73.4		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	84.8		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	100		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	84.4		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.3		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	110		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	81.7		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	94.7		P	40 - 160
Perfluorobutanoic acid (PFBA)	99.3		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	90.1		P	40 - 160
Perfluorodecanoic acid (PFDA)	76.2		P	40 - 160
Perfluorododecanoic acid (PFDoA)	117		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	78.1		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	97.7		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	88.1		P	40 - 160
Perfluorohexanoic acid (PFHxA)	90.2		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	98.2		P	40 - 160
Perfluorononanoic acid (PFNA)	126		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	93.7		P	40 - 160
Perfluorooctanoic acid (PFOA)	78.6		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	105		P	40 - 160
Perfluoropentanoic acid (PFPeA)	93.6		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	92.2		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	112		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	102		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	83.8		P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P403720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	111	113	P/P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.2	86.5	P/P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	120	122	P/P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	90.4	P/P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	110	145	P/P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	109	107	P/P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.3	113	P/P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	98.2	101	P/P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108	103	P/P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	106	102	P/P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	102	99.5	P/P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	95.1	91.9	P/P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	102	93.3	P/P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	109	106	P/P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	116	105	P/P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	112	122	P/P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	112	105	P/P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	105	102	P/P	30 - 160
Perfluorobutanoic acid (PFBA)	94.6	98.1	P/P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	110	104	P/P	30 - 160
Perfluorodecanoic acid (PFDA)	88.7	115	P/P	30 - 160
Perfluorododecanoic acid (PFDoA)	99.4	105	P/P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	120	105	P/P	30 - 160
Perfluoroheptanoic acid (PFHpA)	98.4	113	P/P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	119	101	P/P	30 - 160
Perfluorohexanoic acid (PFHxA)	104	101	P/P	30 - 160
Perfluorononanesulfonic acid (PFNS)	110	102	P/P	30 - 160
Perfluorononanoic acid (PFNA)	108	143	P/P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	116	113	P/P	30 - 160
Perfluorooctanoic acid (PFOA)	113	84.3	P/P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	107	106	P/P	30 - 160
Perfluoropentanoic acid (PFPeA)	109	104	P/P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	101	86.8	P/P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	113	114	P/P	30 - 160
Perfluorotridecanoic acid (PFTriA)	117	118	P/P	30 - 160
Perfluoroundecanoic acid (PFUnA)	115	129	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	76.5		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	126		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.4		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	128		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	92.5		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.9		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	98.7		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	95.0		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	123		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	120		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	116		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	91.1		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	103		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	124		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	109		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	102		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	102		P	30 - 160
Perfluorobutanoic acid (PFBA)	97.9		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	83.0		P	30 - 160
Perfluorodecanoic acid (PFDA)	157		P	30 - 160
Perfluorododecanoic acid (PFDoA)	115		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	116		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	80.6		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	112		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P403818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluorohexanoic acid (PFHxA)	79.8		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	80.8		P	30 - 160
Perfluorononanoic acid (PFNA)	108		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	99.4		P	30 - 160
Perfluorooctanoic acid (PFOA)	70.2		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	97.5		P	30 - 160
Perfluoropentanoic acid (PFPeA)	102		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	90.3		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	131		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	111		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	126		P	30 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P404198

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroheptadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	91.1		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.7		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	106		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	80.7		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	111		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	87.0		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	100		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	91.8		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	71.6		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	74.6		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	92.5		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	79.8		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	85.4		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	92.2		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	92.0		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	99.4		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	85.1		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	89.2		P	40 - 160
Perfluorobutanoic acid (PFBA)	80.8		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	85.5		P	40 - 160
Perfluorodecanoic acid (PFDA)	118		P	40 - 160
Perfluorododecanoic acid (PFDoA)	120		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	89.4		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	82.8		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.1		P	40 - 160
Perfluorohexanoic acid (PFHxA)	83.4		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	81.6		P	40 - 160
Perfluorononanoic acid (PFNA)	144		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	89.4		P	40 - 160
Perfluorooctanoic acid (PFOA)	85.4		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	82.5		P	40 - 160
Perfluoropentanoic acid (PFPeA)	96.1		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	89.8		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	95.2		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	99.3		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	124		P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P403459

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274109	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	75.1	75.4	P/P	40 - 160
2274109	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.2	107	P/P	40 - 160
2274109	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	110	108	P/P	40 - 160
2274109	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	87.8	90.7	P/P	40 - 160
2274109	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	136	125	P/P	40 - 160
2274109	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	86.9	91.2	P/P	40 - 160
2274109	Hexafluoropropylene oxide dimer acid (HFPO-DA)	71.7	84.6	P/P	40 - 160
2274109	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	96.8	92.6	P/P	40 - 160
2274109	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	86.7	84.8	P/P	40 - 160
2274109	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	70.6	60.8	P/P	40 - 160
2274109	Perfluoro-1-butane sulfonamide (FBSA)	74.0	75.8	P/P	40 - 160
2274109	Perfluoro-1-hexane sulfonamide (FHxSA)	79.9	79.0	P/P	40 - 160
2274109	Perfluoro-1-octane sulfonamide (FOSA)	94.0	97.6	P/P	40 - 160
2274109	Perfluoro-3-methoxypropanoic acid (PFMPA)	86.1	77.5	P/P	40 - 160
2274109	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	78.8	74.6	P/P	40 - 160
2274109	Perfluoro-4-methoxybutanoic acid (PFMBA)	90.5	81.9	P/P	40 - 160
2274109	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	80.1	85.0	P/P	40 - 160
2274109	Perfluorobutanesulfonic acid (PFBS)	94.3	96.0	P/P	40 - 160
2274109	Perfluorobutanoic acid (PFBA)	98.1	97.5	P/P	40 - 160
2274109	Perfluorodecanesulfonic acid (PFDS)	88.3	93.3	P/P	40 - 160
2274109	Perfluorodecanoic acid (PFDA)	69.7	112	P/P	40 - 160
2274109	Perfluorododecanoic acid (PFDoA)	111	97.1	P/P	40 - 160
2274109	Perfluoroheptanesulfonic acid (PFHpS)	85.9	77.7	P/P	40 - 160
2274109	Perfluoroheptanoic acid (PFHpA)	103	125	P/P	40 - 160
2274109	Perfluorohexanesulfonic acid (PFHxS)	91.7	89.1	P/P	40 - 160
2274109	Perfluorohexanoic acid (PFHxA)	76.9	85.9	P/P	40 - 160
2274109	Perfluorononanesulfonic acid (PFNS)	97.0	99.1	P/P	40 - 160
2274109	Perfluorononanoic acid (PFNA)	111	120	P/P	40 - 160
2274109	Perfluorooctanesulfonic acid (PFOS)	79.5	82.0	P/P	40 - 160
2274109	Perfluorooctanoic acid (PFOA)	51.1	52.5	P/P	40 - 160
2274109	Perfluoropentanesulfonic acid (PFPeS)	92.6	93.7	P/P	40 - 160
2274109	Perfluoropentanoic acid (PFPeA)	84.2	110	P/P	40 - 160
2274109	Perfluoropropanesulfonic acid (PFPrS)	84.1	98.6	P/P	40 - 160
2274109	Perfluorotetradecanoic acid (PFTeA)	131	123	P/P	40 - 160
2274109	Perfluorotridecanoic acid (PFTriA)	134	126	P/P	40 - 160
2274109	Perfluoroundecanoic acid (PFUnA)	68.6	87.7	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P403460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274137	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	73.0	82.3	P/P	40 - 160
2274137	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	118	P/P	40 - 160
2274137	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	110	129	P/P	40 - 160
2274137	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	82.4	91.4	P/P	40 - 160
2274137	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	110	121	P/P	40 - 160
2274137	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	84.2	96.2	P/P	40 - 160
2274137	Hexafluoropropylene oxide dimer acid (HFPO-DA)	89.6	86.2	P/P	40 - 160
2274137	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.8	97.7	P/P	40 - 160
2274137	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	94.5	90.3	P/P	40 - 160
2274137	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	66.0	66.7	P/P	40 - 160
2274137	Perfluoro-1-butane sulfonamide (FBSA)	74.2	77.9	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P403460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274137	Perfluoro-1-hexane sulfonamide (FHxSA)	77.5	82.6	P/P	40 - 160
2274137	Perfluoro-1-octane sulfonamide (FOSA)	93.2	106	P/P	40 - 160
2274137	Perfluoro-3-methoxypropanoic acid (PFMPA)	78.1	95.2	P/P	40 - 160
2274137	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.1	81.1	P/P	40 - 160
2274137	Perfluoro-4-methoxybutanoic acid (PFMBA)	80.0	96.5	P/P	40 - 160
2274137	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	74.0	83.3	P/P	40 - 160
2274137	Perfluorobutanesulfonic acid (PFBS)	91.7	91.0	P/P	40 - 160
2274137	Perfluorobutanoic acid (PFBA)	86.5	98.0	P/P	40 - 160
2274137	Perfluorodecanesulfonic acid (PFDS)	81.7	87.0	P/P	40 - 160
2274137	Perfluorodecanoic acid (PFDA)	104	84.9	P/P	40 - 160
2274137	Perfluorododecanoic acid (PFDoA)	110	112	P/P	40 - 160
2274137	Perfluoroheptanesulfonic acid (PFHpS)	80.3	80.3	P/P	40 - 160
2274137	Perfluoroheptanoic acid (PFHpA)	102	90.3	P/P	40 - 160
2274137	Perfluorohexanesulfonic acid (PFHxS)	92.6	91.0	P/P	40 - 160
2274137	Perfluorohexanoic acid (PFHxA)	75.1	83.2	P/P	40 - 160
2274137	Perfluorononanesulfonic acid (PFNS)	96.5	100	P/P	40 - 160
2274137	Perfluorononanoic acid (PFNA)	117	95.8	P/P	40 - 160
2274137	Perfluorooctanesulfonic acid (PFOS)	99.4	103	P/P	40 - 160
2274137	Perfluorooctanoic acid (PFOA)	57.1	53.1	P/P	40 - 160
2274137	Perfluoropentanesulfonic acid (PFPeS)	91.1	91.1	P/P	40 - 160
2274137	Perfluoropentanoic acid (PFPeA)	89.6	104	P/P	40 - 160
2274137	Perfluoropropanesulfonic acid (PFPrS)	82.0	86.4	P/P	40 - 160
2274137	Perfluorotetradecanoic acid (PFTeA)	102	83.6	P/P	40 - 160
2274137	Perfluorotridecanoic acid (PFTriA)	111	104	P/P	40 - 160
2274137	Perfluoroundecanoic acid (PFUnA)	129	140	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P403462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274526	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.9	108	P/P	40 - 160
2274526	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101	95.7	P/P	40 - 160
2274526	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	112	110	P/P	40 - 160
2274526	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	90.4	106	P/P	40 - 160
2274526	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	85.1	95.7	P/P	40 - 160
2274526	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105	98.4	P/P	40 - 160
2274526	Hexafluoropropylene oxide dimer acid (HFPO-DA)	113	99.2	P/P	40 - 160
2274526	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	88.3	P/P	40 - 160
2274526	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	114	92.9	P/P	40 - 160
2274526	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	106	113	P/P	40 - 160
2274526	Perfluoro-1-butane sulfonamide (FBSA)	92.6	96.0	P/P	40 - 160
2274526	Perfluoro-1-hexane sulfonamide (FHxSA)	99.8	97.2	P/P	40 - 160
2274526	Perfluoro-1-octane sulfonamide (FOSA)	92.9	100	P/P	40 - 160
2274526	Perfluoro-3-methoxypropanoic acid (PFMPA)	102	100	P/P	40 - 160
2274526	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	94.9	86.2	P/P	40 - 160
2274526	Perfluoro-4-methoxybutanoic acid (PFMBA)	104	94.8	P/P	40 - 160
2274526	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	94.7	98.8	P/P	40 - 160
2274526	Perfluorobutanesulfonic acid (PFBS)	97.4	103	P/P	40 - 160
2274526	Perfluorobutanoic acid (PFBA)	95.9	95.0	P/P	40 - 160
2274526	Perfluorodecanesulfonic acid (PFDS)	95.0	98.0	P/P	40 - 160
2274526	Perfluorodecanoic acid (PFDA)	104	118	P/P	40 - 160
2274526	Perfluorododecanoic acid (PFDoA)	129	98.5	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P403462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274526	Perfluoroheptanesulfonic acid (PFHpS)	96.8	88.1	P/P	40 - 160
2274526	Perfluoroheptanoic acid (PFHpA)	99.2	104	P/P	40 - 160
2274526	Perfluorohexanesulfonic acid (PFHxS)	101	88.6	P/P	40 - 160
2274526	Perfluorohexanoic acid (PFHxA)	100	82.9	P/P	40 - 160
2274526	Perfluorononanesulfonic acid (PFNS)	102	106	P/P	40 - 160
2274526	Perfluorononanoic acid (PFNA)	110	131	P/P	40 - 160
2274526	Perfluorooctanesulfonic acid (PFOS)	94.9	92.9	P/P	40 - 160
2274526	Perfluorooctanoic acid (PFOA)	99.1	101	P/P	40 - 160
2274526	Perfluoropentanesulfonic acid (PFPeS)	92.2	93.3	P/P	40 - 160
2274526	Perfluoropentanoic acid (PFPeA)	109	103	P/P	40 - 160
2274526	Perfluoropropanesulfonic acid (PFPrS)	90.9	95.0	P/P	40 - 160
2274526	Perfluorotetradecanoic acid (PFTeA)	113	102	P/P	40 - 160
2274526	Perfluorotridecanoic acid (PFTriA)	148	130	P/P	40 - 160
2274526	Perfluoroundecanoic acid (PFUnA)	92.4	98.5	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P403612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274195	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	68.5	77.1	P/P	40 - 160
2274195	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101	92.4	P/P	40 - 160
2274195	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	111	110	P/P	40 - 160
2274195	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.5	74.6	P/P	40 - 160
2274195	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	126	119	P/P	40 - 160
2274195	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	83.9	88.1	P/P	40 - 160
2274195	Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.7	68.4	P/P	40 - 160
2274195	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	87.6	76.9	P/P	40 - 160
2274195	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	102	104	P/P	40 - 160
2274195	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	58.7	47.9	P/P	40 - 160
2274195	Perfluoro-1-butane sulfonamide (FBSA)	79.0	76.0	P/P	40 - 160
2274195	Perfluoro-1-hexane sulfonamide (FHxSA)	76.2	82.0	P/P	40 - 160
2274195	Perfluoro-1-octane sulfonamide (FOSA)	84.2	94.8	P/P	40 - 160
2274195	Perfluoro-3-methoxypropanoic acid (PFMPA)	83.6	77.6	P/P	40 - 160
2274195	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	70.0	72.0	P/P	40 - 160
2274195	Perfluoro-4-methoxybutanoic acid (PFMBA)	84.8	91.5	P/P	40 - 160
2274195	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	83.2	77.6	P/P	40 - 160
2274195	Perfluorobutanesulfonic acid (PFBS)	92.6	89.7	P/P	40 - 160
2274195	Perfluorobutanoic acid (PFBA)	93.0	95.8	P/P	40 - 160
2274195	Perfluorodecanesulfonic acid (PFDS)	79.0	87.6	P/P	40 - 160
2274195	Perfluorodecanoic acid (PFDA)	107	83.5	P/P	40 - 160
2274195	Perfluorododecanoic acid (PFDoA)	72.9	78.3	P/P	40 - 160
2274195	Perfluoroheptanesulfonic acid (PFHpS)	69.4	76.9	P/P	40 - 160
2274195	Perfluoroheptanoic acid (PFHpA)	81.5	93.1	P/P	40 - 160
2274195	Perfluorohexanesulfonic acid (PFHxS)	88.8	90.7	P/P	40 - 160
2274195	Perfluorohexanoic acid (PFHxA)	110	98.1	P/P	40 - 160
2274195	Perfluorononanesulfonic acid (PFNS)	88.1	104	P/P	40 - 160
2274195	Perfluorononanoic acid (PFNA)	113	90.3	P/P	40 - 160
2274195	Perfluorooctanesulfonic acid (PFOS)	81.4	94.4	P/P	40 - 160
2274195	Perfluorooctanoic acid (PFOA)	75.8	85.8	P/P	40 - 160
2274195	Perfluoropentanesulfonic acid (PFPeS)	86.7	84.0	P/P	40 - 160
2274195	Perfluoropentanoic acid (PFPeA)	86.7	97.4	P/P	40 - 160
2274195	Perfluoropropanesulfonic acid (PFPrS)	98.3	106	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P403612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274195	Perfluorotetradecanoic acid (PFTeA)	116	97.6	P/P	40 - 160
2274195	Perfluorotridecanoic acid (PFTriA)	104	119	P/P	40 - 160
2274195	Perfluoroundecanoic acid (PFUnA)	56.0	75.6	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P403631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274343	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	70.6	74.0	P/P	40 - 160
2274343	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	96.4	93.2	P/P	40 - 160
2274343	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	101	P/P	40 - 160
2274343	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	82.1	92.3	P/P	40 - 160
2274343	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153	115	P/P	40 - 160
2274343	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	96.0	85.7	P/P	40 - 160
2274343	Hexafluoropropylene oxide dimer acid (HFPO-DA)	84.2	106	P/P	40 - 160
2274343	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	101	85.8	P/P	40 - 160
2274343	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	91.0	91.6	P/P	40 - 160
2274343	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	69.4	53.1	P/P	40 - 160
2274343	Perfluoro-1-butane sulfonamide (FBSA)	78.4	74.1	P/P	40 - 160
2274343	Perfluoro-1-hexane sulfonamide (FHxSA)	76.9	70.9	P/P	40 - 160
2274343	Perfluoro-1-octane sulfonamide (FOSA)	89.7	87.1	P/P	40 - 160
2274343	Perfluoro-3-methoxypropanoic acid (PFMPA)	91.0	84.7	P/P	40 - 160
2274343	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	71.1	74.1	P/P	40 - 160
2274343	Perfluoro-4-methoxybutanoic acid (PFMBA)	93.2	91.9	P/P	40 - 160
2274343	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	71.8	77.2	P/P	40 - 160
2274343	Perfluorobutanesulfonic acid (PFBS)	86.2	87.7	P/P	40 - 160
2274343	Perfluorobutanoic acid (PFBA)	98.0	93.7	P/P	40 - 160
2274343	Perfluorodecanesulfonic acid (PFDS)	83.4	81.8	P/P	40 - 160
2274343	Perfluorodecanoic acid (PFDA)	98.9	91.8	P/P	40 - 160
2274343	Perfluorododecanoic acid (PFDoA)	97.7	115	P/P	40 - 160
2274343	Perfluoroheptanesulfonic acid (PFHpS)	75.5	70.4	P/P	40 - 160
2274343	Perfluoroheptanoic acid (PFHpA)	89.6	73.4	P/P	40 - 160
2274343	Perfluorohexanesulfonic acid (PFHxS)	94.3	88.3	P/P	40 - 160
2274343	Perfluorohexanoic acid (PFHxA)	115	97.9	P/P	40 - 160
2274343	Perfluorononanesulfonic acid (PFNS)	100	99.5	P/P	40 - 160
2274343	Perfluorononanoic acid (PFNA)	79.8	77.6	P/P	40 - 160
2274343	Perfluorooctanesulfonic acid (PFOS)	92.7	90.5	P/P	40 - 160
2274343	Perfluorooctanoic acid (PFOA)	81.4	78.7	P/P	40 - 160
2274343	Perfluoropentanesulfonic acid (PFPeS)	78.1	79.4	P/P	40 - 160
2274343	Perfluoropentanoic acid (PFPeA)	85.6	89.2	P/P	40 - 160
2274343	Perfluoropropanesulfonic acid (PFPrS)	85.5	92.7	P/P	40 - 160
2274343	Perfluorotetradecanoic acid (PFTeA)	96.2	73.2	P/P	40 - 160
2274343	Perfluorotridecanoic acid (PFTriA)	112	132	P/P	40 - 160
2274343	Perfluoroundecanoic acid (PFUnA)	100	71.4	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P403634

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274525	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	76.6	78.5	P/P	40 - 160
2274525	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	121	102	P/P	40 - 160
2274525	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	125	101	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P403634

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274525	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	75.4	87.5	P/P	40 - 160
2274525	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	136	P/P	40 - 160
2274525	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	78.8	84.9	P/P	40 - 160
2274525	Hexafluoropropylene oxide dimer acid (HFPO-DA)	89.7	93.2	P/P	40 - 160
2274525	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	80.3	94.4	P/P	40 - 160
2274525	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	107	P/P	40 - 160
2274525	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	49.2	47.3	P/P	40 - 160
2274525	Perfluoro-1-butane sulfonamide (FBSA)	66.6	73.1	P/P	40 - 160
2274525	Perfluoro-1-hexane sulfonamide (FHxSA)	81.3	82.9	P/P	40 - 160
2274525	Perfluoro-1-octane sulfonamide (FOSA)	94.4	95.6	P/P	40 - 160
2274525	Perfluoro-3-methoxypropanoic acid (PFMPA)	87.6	93.0	P/P	40 - 160
2274525	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	72.9	74.2	P/P	40 - 160
2274525	Perfluoro-4-methoxybutanoic acid (PFMBA)	101	96.0	P/P	40 - 160
2274525	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	93.7	79.2	P/P	40 - 160
2274525	Perfluorobutanesulfonic acid (PFBS)	95.1	88.4	P/P	40 - 160
2274525	Perfluorobutanoic acid (PFBA)	97.8	99.4	P/P	40 - 160
2274525	Perfluorodecanesulfonic acid (PFDS)	83.3	87.8	P/P	40 - 160
2274525	Perfluorodecanoic acid (PFDA)	81.8	109	P/P	40 - 160
2274525	Perfluorododecanoic acid (PFDoA)	69.9	92.9	P/P	40 - 160
2274525	Perfluoroheptanesulfonic acid (PFHpS)	72.6	77.8	P/P	40 - 160
2274525	Perfluoroheptanoic acid (PFHpA)	73.2	93.5	P/P	40 - 160
2274525	Perfluorohexanesulfonic acid (PFHxS)	89.9	84.3	P/P	40 - 160
2274525	Perfluorohexanoic acid (PFHxA)	92.4	109	P/P	40 - 160
2274525	Perfluorononanesulfonic acid (PFNS)	104	89.6	P/P	40 - 160
2274525	Perfluorononanoic acid (PFNA)	75.9	122	P/P	40 - 160
2274525	Perfluorooctanesulfonic acid (PFOS)	84.4	84.2	P/P	40 - 160
2274525	Perfluorooctanoic acid (PFOA)	80.7	90.2	P/P	40 - 160
2274525	Perfluoropentanesulfonic acid (PFPeS)	116	100	P/P	40 - 160
2274525	Perfluoropentanoic acid (PFPeA)	117	98.7	P/P	40 - 160
2274525	Perfluoropropanesulfonic acid (PFPrS)	103	104	P/P	40 - 160
2274525	Perfluorotetradecanoic acid (PFTeA)	110	132	P/P	40 - 160
2274525	Perfluorotridecanoic acid (PFTriA)	153	135	P/P	40 - 160
2274525	Perfluoroundecanoic acid (PFUnA)	77.7	88.1	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P403818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2275105	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	59.4	59.2	P/P	30 - 160
2275105	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.2	108	P/P	30 - 160
2275105	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	116	132	P/P	30 - 160
2275105	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	116	P/P	30 - 160
2275105	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152	141	P/P	30 - 160
2275105	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	81.0	85.4	P/P	30 - 160
2275105	Hexafluoropropylene oxide dimer acid (HFPO-DA)	127	111	P/P	30 - 160
2275105	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	107	108	P/P	30 - 160
2275105	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	99.1	104	P/P	30 - 160
2275105	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	130	93.4	P/P	30 - 160
2275105	Perfluoro-1-butane sulfonamide (FBSA)	92.8	89.5	P/P	30 - 160
2275105	Perfluoro-1-hexane sulfonamide (FHxSA)	95.3	97.1	P/P	30 - 160
2275105	Perfluoro-1-octane sulfonamide (FOSA)	99.3	91.8	P/P	30 - 160
2275105	Perfluoro-3-methoxypropanoic acid (PFMPA)	116	118	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2275105	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	110	109	P/P	30 - 160
2275105	Perfluoro-4-methoxybutanoic acid (PFMBA)	152	142	P/P	30 - 160
2275105	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	105	112	P/P	30 - 160
2275105	Perfluorobutanesulfonic acid (PFBS)	111	121	P/P	30 - 160
2275105	Perfluorobutanoic acid (PFBA)	100	100	P/P	30 - 160
2275105	Perfluorodecanesulfonic acid (PFDS)	68.0	74.8	P/P	30 - 160
2275105	Perfluorodecanoic acid (PFDA)	107	130	P/P	30 - 160
2275105	Perfluorododecanoic acid (PFDoA)	152	97.4	P/P	30 - 160
2275105	Perfluoroheptanesulfonic acid (PFHpS)	104	101	P/P	30 - 160
2275105	Perfluoroheptanoic acid (PFHpA)	105	77.7	P/P	30 - 160
2275105	Perfluorohexanesulfonic acid (PFHxS)	78.0	106	P/P	30 - 160
2275105	Perfluorohexanoic acid (PFHxA)	118	130	P/P	30 - 160
2275105	Perfluorononanesulfonic acid (PFNS)	84.8	85.1	P/P	30 - 160
2275105	Perfluorononanoic acid (PFNA)	136	129	P/P	30 - 160
2275105	Perfluorooctanoic acid (PFOA)	83.4	60.3	P/P	30 - 160
2275105	Perfluoropentanesulfonic acid (PFPeS)	95.9	119	P/P	30 - 160
2275105	Perfluoropentanoic acid (PFPeA)	104	107	P/P	30 - 160
2275105	Perfluoropropanesulfonic acid (PFPrS)	115	125	P/P	30 - 160
2275105	Perfluorotetradecanoic acid (PFTeA)	94.8	100	P/P	30 - 160
2275105	Perfluorotridecanoic acid (PFTriA)	104	109	P/P	30 - 160
2275105	Perfluoroundecanoic acid (PFUnA)	127	137	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3
 Batch ID: P404198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274570	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	108	94.9	P/P	40 - 160
2274570	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	85.6	P/P	40 - 160
2274570	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	111	115	P/P	40 - 160
2274570	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	90.8	77.1	P/P	40 - 160
2274570	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	110	119	P/P	40 - 160
2274570	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	99.6	89.0	P/P	40 - 160
2274570	Hexafluoropropylene oxide dimer acid (HFPO-DA)	118	110	P/P	40 - 160
2274570	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	94.7	89.9	P/P	40 - 160
2274570	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.2	92.6	P/P	40 - 160
2274570	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	148	121	P/P	40 - 160
2274570	Perfluoro-1-butane sulfonamide (FBSA)	109	95.8	P/P	40 - 160
2274570	Perfluoro-1-hexane sulfonamide (FHxSA)	91.5	82.0	P/P	40 - 160
2274570	Perfluoro-1-octane sulfonamide (FOSA)	90.8	84.7	P/P	40 - 160
2274570	Perfluoro-3-methoxypropanoic acid (PFMPA)	111	94.9	P/P	40 - 160
2274570	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	119	105	P/P	40 - 160
2274570	Perfluoro-4-methoxybutanoic acid (PFMBA)	128	111	P/P	40 - 160
2274570	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	106	98.8	P/P	40 - 160
2274570	Perfluorobutanesulfonic acid (PFBS)	97.4	98.2	P/P	40 - 160
2274570	Perfluorobutanoic acid (PFBA)	88.6	82.9	P/P	40 - 160
2274570	Perfluorodecanesulfonic acid (PFDS)	106	99.2	P/P	40 - 160
2274570	Perfluorodecanoic acid (PFDA)	100	91.1	P/P	40 - 160
2274570	Perfluorododecanoic acid (PFDoA)	140	123	P/P	40 - 160
2274570	Perfluoroheptanesulfonic acid (PFHpS)	108	99.3	P/P	40 - 160
2274570	Perfluoroheptanoic acid (PFHpA)	93.1	76.8	P/P	40 - 160
2274570	Perfluorohexanesulfonic acid (PFHxS)	107	100	P/P	40 - 160
2274570	Perfluorohexanoic acid (PFHxA)	108	81.2	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P404198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2274570	Perfluorononanesulfonic acid (PFNS)	105	91.2	P/P	40 - 160
2274570	Perfluorononanoic acid (PFNA)	120	131	P/P	40 - 160
2274570	Perfluorooctanesulfonic acid (PFOS)	105	103	P/P	40 - 160
2274570	Perfluorooctanoic acid (PFOA)	121	91.4	P/P	40 - 160
2274570	Perfluoropentanesulfonic acid (PFPeS)	95.7	90.0	P/P	40 - 160
2274570	Perfluoropentanoic acid (PFPeA)	111	100	P/P	40 - 160
2274570	Perfluoropropanesulfonic acid (PFPrS)	103	92.6	P/P	40 - 160
2274570	Perfluorotetradecanoic acid (PFTeA)	108	96.0	P/P	40 - 160
2274570	Perfluorotridecanoic acid (PFTriA)	83.3	82.5	P/P	40 - 160
2274570	Perfluoroundecanoic acid (PFUnA)	148	118	P/P	40 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P403459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274109	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.399	Spike	P	0 - 35
2274109	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	12.0	Spike	P	0 - 35
2274109	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.46	Spike	P	0 - 35
2274109	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	3.25	Spike	P	0 - 35
2274109	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.04	Spike	P	0 - 35
2274109	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.83	Spike	P	0 - 35
2274109	Hexafluoropropylene oxide dimer acid (HFPO-DA)	16.5	Spike	P	0 - 35
2274109	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.44	Spike	P	0 - 35
2274109	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.22	Spike	P	0 - 35
2274109	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	14.9	Spike	P	0 - 35
2274109	Perfluoro-1-butane sulfonamide (FBSA)	2.40	Spike	P	0 - 35
2274109	Perfluoro-1-hexane sulfonamide (FHxSA)	1.13	Spike	P	0 - 35
2274109	Perfluoro-1-octane sulfonamide (FOSA)	3.76	Spike	P	0 - 35
2274109	Perfluoro-3-methoxypropanoic acid (PFMPA)	10.5	Spike	P	0 - 35
2274109	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	5.48	Spike	P	0 - 35
2274109	Perfluoro-4-methoxybutanoic acid (PFMBA)	9.98	Spike	P	0 - 35
2274109	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	5.94	Spike	P	0 - 35
2274109	Perfluorobutanesulfonic acid (PFBS)	1.79	Spike	P	0 - 35
2274109	Perfluorobutanoic acid (PFBA)	0.613	Spike	P	0 - 35
2274109	Perfluorodecanesulfonic acid (PFDS)	5.51	Spike	P	0 - 35
2274109	Perfluorodecanoic acid (PFDA)	23.2	Spike	P	0 - 35
2274109	Perfluorododecanoic acid (PFDoA)	11.4	Spike	P	0 - 35
2274109	Perfluoroheptanesulfonic acid (PFHpS)	10.0	Spike	P	0 - 35
2274109	Perfluoroheptanoic acid (PFHpA)	16.3	Spike	P	0 - 35
2274109	Perfluorohexanesulfonic acid (PFHxS)	2.67	Spike	P	0 - 35
2274109	Perfluorohexanoic acid (PFHxA)	8.46	Spike	P	0 - 35
2274109	Perfluorononanesulfonic acid (PFNS)	2.14	Spike	P	0 - 35
2274109	Perfluorononanoic acid (PFNA)	6.41	Spike	P	0 - 35
2274109	Perfluorooctanesulfonic acid (PFOS)	1.24	Spike	P	0 - 35
2274109	Perfluorooctanoic acid (PFOA)	1.82	Spike	P	0 - 35
2274109	Perfluoropentanesulfonic acid (PFPeS)	1.18	Spike	P	0 - 35
2274109	Perfluoropentanoic acid (PFPeA)	18.5	Spike	P	0 - 35
2274109	Perfluoropropanesulfonic acid (PFPrS)	15.9	Spike	P	0 - 35
2274109	Perfluorotetradecanoic acid (PFTeA)	6.28	Spike	P	0 - 35
2274109	Perfluorotridecanoic acid (PFTriA)	5.38	Spike	P	0 - 35
2274109	Perfluoroundecanoic acid (PFUnA)	13.9	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P403460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274137	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	12.0	Spike	P	0 - 35
2274137	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	11.0	Spike	P	0 - 35
2274137	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	16.0	Spike	P	0 - 35
2274137	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	10.4	Spike	P	0 - 35
2274137	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.46	Spike	P	0 - 35
2274137	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	13.3	Spike	P	0 - 35
2274137	Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.87	Spike	P	0 - 35
2274137	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	13.0	Spike	P	0 - 35
2274137	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.55	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P403460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274137	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.06	Spike	P	0 - 35
2274137	Perfluoro-1-butane sulfonamide (FBSA)	4.87	Spike	P	0 - 35
2274137	Perfluoro-1-hexane sulfonamide (FHxSA)	6.37	Spike	P	0 - 35
2274137	Perfluoro-1-octane sulfonamide (FOSA)	12.9	Spike	P	0 - 35
2274137	Perfluoro-3-methoxypropanoic acid (PFMPA)	19.7	Spike	P	0 - 35
2274137	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	1.24	Spike	P	0 - 35
2274137	Perfluoro-4-methoxybutanoic acid (PFMBA)	18.7	Spike	P	0 - 35
2274137	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	11.8	Spike	P	0 - 35
2274137	Perfluorobutanesulfonic acid (PFBS)	0.766	Spike	P	0 - 35
2274137	Perfluorobutanoic acid (PFBA)	12.5	Spike	P	0 - 35
2274137	Perfluorodecanesulfonic acid (PFDS)	6.28	Spike	P	0 - 35
2274137	Perfluorodecanoic acid (PFDA)	19.9	Spike	P	0 - 35
2274137	Perfluorododecanoic acid (PFDoA)	2.07	Spike	P	0 - 35
2274137	Perfluoroheptanesulfonic acid (PFHpS)	0.0	Spike	P	0 - 35
2274137	Perfluoroheptanoic acid (PFHpA)	12.4	Spike	P	0 - 35
2274137	Perfluorohexanesulfonic acid (PFHxS)	1.74	Spike	P	0 - 35
2274137	Perfluorohexanoic acid (PFHxA)	10.2	Spike	P	0 - 35
2274137	Perfluorononanesulfonic acid (PFNS)	3.66	Spike	P	0 - 35
2274137	Perfluorononanoic acid (PFNA)	19.7	Spike	P	0 - 35
2274137	Perfluorooctanesulfonic acid (PFOS)	3.36	Spike	P	0 - 35
2274137	Perfluorooctanoic acid (PFOA)	7.26	Spike	P	0 - 35
2274137	Perfluoropentanesulfonic acid (PFPeS)	0.0	Spike	P	0 - 35
2274137	Perfluoropentanoic acid (PFPeA)	14.6	Spike	P	0 - 35
2274137	Perfluoropropanesulfonic acid (PFPrS)	5.23	Spike	P	0 - 35
2274137	Perfluorotetradecanoic acid (PFTeA)	20.1	Spike	P	0 - 35
2274137	Perfluorotridecanoic acid (PFTriA)	5.86	Spike	P	0 - 35
2274137	Perfluoroundecanoic acid (PFUnA)	7.73	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P403462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274526	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	12.2	Spike	P	0 - 35
2274526	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	5.69	Spike	P	0 - 35
2274526	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.70	Spike	P	0 - 35
2274526	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	15.8	Spike	P	0 - 35
2274526	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	11.7	Spike	P	0 - 35
2274526	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	6.11	Spike	P	0 - 35
2274526	Hexafluoropropylene oxide dimer acid (HFPO-DA)	13.3	Spike	P	0 - 35
2274526	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	12.8	Spike	P	0 - 35
2274526	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	20.0	Spike	P	0 - 35
2274526	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	6.95	Spike	P	0 - 35
2274526	Perfluoro-1-butane sulfonamide (FBSA)	3.61	Spike	P	0 - 35
2274526	Perfluoro-1-hexane sulfonamide (FHxSA)	2.64	Spike	P	0 - 35
2274526	Perfluoro-1-octane sulfonamide (FOSA)	7.86	Spike	P	0 - 35
2274526	Perfluoro-3-methoxypropanoic acid (PFMPA)	1.19	Spike	P	0 - 35
2274526	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	9.61	Spike	P	0 - 35
2274526	Perfluoro-4-methoxybutanoic acid (PFMBA)	9.54	Spike	P	0 - 35
2274526	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.24	Spike	P	0 - 35
2274526	Perfluorobutanesulfonic acid (PFBS)	5.20	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P403462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274526	Perfluorobutanoic acid (PFBA)	0.943	Spike	P	0 - 35
2274526	Perfluorodecanesulfonic acid (PFDS)	3.11	Spike	P	0 - 35
2274526	Perfluorodecanoic acid (PFDA)	13.0	Spike	P	0 - 35
2274526	Perfluorododecanoic acid (PFDoA)	26.8	Spike	P	0 - 35
2274526	Perfluoroheptanesulfonic acid (PFHpS)	9.41	Spike	P	0 - 35
2274526	Perfluoroheptanoic acid (PFHpA)	4.82	Spike	P	0 - 35
2274526	Perfluorohexanesulfonic acid (PFHxS)	12.7	Spike	P	0 - 35
2274526	Perfluorohexanoic acid (PFHxA)	19.2	Spike	P	0 - 35
2274526	Perfluorononanesulfonic acid (PFNS)	4.23	Spike	P	0 - 35
2274526	Perfluorononanoic acid (PFNA)	17.8	Spike	P	0 - 35
2274526	Perfluorooctanesulfonic acid (PFOS)	1.87	Spike	P	0 - 35
2274526	Perfluorooctanoic acid (PFOA)	1.70	Spike	P	0 - 35
2274526	Perfluoropentanesulfonic acid (PFPeS)	1.19	Spike	P	0 - 35
2274526	Perfluoropentanoic acid (PFPeA)	5.85	Spike	P	0 - 35
2274526	Perfluoropropanesulfonic acid (PFPrS)	4.41	Spike	P	0 - 35
2274526	Perfluorotetradecanoic acid (PFTeA)	10.1	Spike	P	0 - 35
2274526	Perfluorotridecanoic acid (PFTriA)	13.1	Spike	P	0 - 35
2274526	Perfluoroundecanoic acid (PFUnA)	6.39	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P403612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274195	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	11.8	Spike	P	0 - 35
2274195	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.60	Spike	P	0 - 35
2274195	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.902	Spike	P	0 - 35
2274195	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	18.2	Spike	P	0 - 35
2274195	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.80	Spike	P	0 - 35
2274195	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.88	Spike	P	0 - 35
2274195	Hexafluoropropylene oxide dimer acid (HFPO-DA)	24.7	Spike	P	0 - 35
2274195	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	13.0	Spike	P	0 - 35
2274195	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.36	Spike	P	0 - 35
2274195	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	20.3	Spike	P	0 - 35
2274195	Perfluoro-1-butane sulfonamide (FBSA)	3.87	Spike	P	0 - 35
2274195	Perfluoro-1-hexane sulfonamide (FHxSA)	7.33	Spike	P	0 - 35
2274195	Perfluoro-1-octane sulfonamide (FOSA)	11.8	Spike	P	0 - 35
2274195	Perfluoro-3-methoxypropanoic acid (PFMPA)	7.44	Spike	P	0 - 35
2274195	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	2.82	Spike	P	0 - 35
2274195	Perfluoro-4-methoxybutanoic acid (PFMBA)	7.60	Spike	P	0 - 35
2274195	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	6.97	Spike	P	0 - 35
2274195	Perfluorobutanesulfonic acid (PFBS)	3.18	Spike	P	0 - 35
2274195	Perfluorobutanoic acid (PFBA)	2.97	Spike	P	0 - 35
2274195	Perfluorodecanesulfonic acid (PFDS)	10.3	Spike	P	0 - 35
2274195	Perfluorodecanoic acid (PFDA)	24.9	Spike	P	0 - 35
2274195	Perfluorododecanoic acid (PFDoA)	7.14	Spike	P	0 - 35
2274195	Perfluoroheptanesulfonic acid (PFHpS)	10.3	Spike	P	0 - 35
2274195	Perfluoroheptanoic acid (PFHpA)	13.3	Spike	P	0 - 35
2274195	Perfluorohexanesulfonic acid (PFHxS)	2.12	Spike	P	0 - 35
2274195	Perfluorohexanoic acid (PFHxA)	11.7	Spike	P	0 - 35
2274195	Perfluorononanesulfonic acid (PFNS)	16.2	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P403612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274195	Perfluorononanoic acid (PFNA)	22.3	Spike	P	0 - 35
2274195	Perfluorooctanesulfonic acid (PFOS)	10.9	Spike	P	0 - 35
2274195	Perfluorooctanoic acid (PFOA)	12.4	Spike	P	0 - 35
2274195	Perfluoropentanesulfonic acid (PFPeS)	3.16	Spike	P	0 - 35
2274195	Perfluoropentanoic acid (PFPeA)	11.6	Spike	P	0 - 35
2274195	Perfluoropropanesulfonic acid (PFPrS)	7.07	Spike	P	0 - 35
2274195	Perfluorotetradecanoic acid (PFTeA)	17.0	Spike	P	0 - 35
2274195	Perfluorotridecanoic acid (PFTriA)	14.2	Spike	P	0 - 35
2274195	Perfluoroundecanoic acid (PFUnA)	23.6	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P403631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274343	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4.70	Spike	P	0 - 35
2274343	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	3.38	Spike	P	0 - 35
2274343	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.93	Spike	P	0 - 35
2274343	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.7	Spike	P	0 - 35
2274343	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	28.4	Spike	P	0 - 35
2274343	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11.3	Spike	P	0 - 35
2274343	Hexafluoropropylene oxide dimer acid (HFPO-DA)	23.4	Spike	P	0 - 35
2274343	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16.5	Spike	P	0 - 35
2274343	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.657	Spike	P	0 - 35
2274343	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	26.6	Spike	P	0 - 35
2274343	Perfluoro-1-butane sulfonamide (FBSA)	5.64	Spike	P	0 - 35
2274343	Perfluoro-1-hexane sulfonamide (FHxSA)	8.12	Spike	P	0 - 35
2274343	Perfluoro-1-octane sulfonamide (FOSA)	2.94	Spike	P	0 - 35
2274343	Perfluoro-3-methoxypropanoic acid (PFMPA)	7.17	Spike	P	0 - 35
2274343	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.13	Spike	P	0 - 35
2274343	Perfluoro-4-methoxybutanoic acid (PFMBA)	1.40	Spike	P	0 - 35
2274343	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.25	Spike	P	0 - 35
2274343	Perfluorobutanesulfonic acid (PFBS)	1.73	Spike	P	0 - 35
2274343	Perfluorobutanoic acid (PFBA)	4.49	Spike	P	0 - 35
2274343	Perfluorodecanesulfonic acid (PFDS)	1.94	Spike	P	0 - 35
2274343	Perfluorodecanoic acid (PFDA)	7.45	Spike	P	0 - 35
2274343	Perfluorododecanoic acid (PFDoA)	16.6	Spike	P	0 - 35
2274343	Perfluoroheptanesulfonic acid (PFHpS)	6.99	Spike	P	0 - 35
2274343	Perfluoroheptanoic acid (PFHpA)	19.9	Spike	P	0 - 35
2274343	Perfluorohexanesulfonic acid (PFHxS)	6.57	Spike	P	0 - 35
2274343	Perfluorohexanoic acid (PFHxA)	15.9	Spike	P	0 - 35
2274343	Perfluorononanesulfonic acid (PFNS)	0.701	Spike	P	0 - 35
2274343	Perfluorononanoic acid (PFNA)	2.80	Spike	P	0 - 35
2274343	Perfluorooctanesulfonic acid (PFOS)	2.40	Spike	P	0 - 35
2274343	Perfluorooctanoic acid (PFOA)	3.37	Spike	P	0 - 35
2274343	Perfluoropentanesulfonic acid (PFPeS)	1.65	Spike	P	0 - 35
2274343	Perfluoropentanoic acid (PFPeA)	4.12	Spike	P	0 - 35
2274343	Perfluoropropanesulfonic acid (PFPrS)	8.08	Spike	P	0 - 35
2274343	Perfluorotetradecanoic acid (PFTeA)	27.2	Spike	P	0 - 35
2274343	Perfluorotridecanoic acid (PFTriA)	16.2	Spike	P	0 - 35
2274343	Perfluoroundecanoic acid (PFUnA)	33.7	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P403634

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274525	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.45	Spike	P	0 - 35
2274525	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	16.5	Spike	P	0 - 35
2274525	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	21.0	Spike	P	0 - 35
2274525	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	14.9	Spike	P	0 - 35
2274525	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	13.8	Spike	P	0 - 35
2274525	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	7.45	Spike	P	0 - 35
2274525	Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.83	Spike	P	0 - 35
2274525	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16.1	Spike	P	0 - 35
2274525	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.54	Spike	P	0 - 35
2274525	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.94	Spike	P	0 - 35
2274525	Perfluoro-1-butane sulfonamide (FBSA)	9.31	Spike	P	0 - 35
2274525	Perfluoro-1-hexane sulfonamide (FHxSA)	1.95	Spike	P	0 - 35
2274525	Perfluoro-1-octane sulfonamide (FOSA)	1.26	Spike	P	0 - 35
2274525	Perfluoro-3-methoxypropanoic acid (PFMPA)	5.98	Spike	P	0 - 35
2274525	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	1.77	Spike	P	0 - 35
2274525	Perfluoro-4-methoxybutanoic acid (PFMBA)	4.88	Spike	P	0 - 35
2274525	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	16.8	Spike	P	0 - 35
2274525	Perfluorobutanesulfonic acid (PFBS)	7.30	Spike	P	0 - 35
2274525	Perfluorobutanoic acid (PFBA)	1.62	Spike	P	0 - 35
2274525	Perfluorodecanesulfonic acid (PFDS)	5.26	Spike	P	0 - 35
2274525	Perfluorodecanoic acid (PFDA)	28.9	Spike	P	0 - 35
2274525	Perfluorododecanoic acid (PFDoA)	28.3	Spike	P	0 - 35
2274525	Perfluoroheptanesulfonic acid (PFHpS)	6.91	Spike	P	0 - 35
2274525	Perfluoroheptanoic acid (PFHpA)	24.4	Spike	P	0 - 35
2274525	Perfluorohexanesulfonic acid (PFHxS)	6.43	Spike	P	0 - 35
2274525	Perfluorohexanoic acid (PFHxA)	16.1	Spike	P	0 - 35
2274525	Perfluorononanesulfonic acid (PFNS)	14.9	Spike	P	0 - 35
2274525	Perfluorononanoic acid (PFNA)	46.7	Spike	F	0 - 35
2274525	Perfluorooctanesulfonic acid (PFOS)	0.191	Spike	P	0 - 35
2274525	Perfluorooctanoic acid (PFOA)	11.1	Spike	P	0 - 35
2274525	Perfluoropentanesulfonic acid (PFPeS)	14.0	Spike	P	0 - 35
2274525	Perfluoropentanoic acid (PFPeA)	16.6	Spike	P	0 - 35
2274525	Perfluoropropanesulfonic acid (PFPrS)	1.06	Spike	P	0 - 35
2274525	Perfluorotetradecanoic acid (PFTeA)	18.7	Spike	P	0 - 35
2274525	Perfluorotridecanoic acid (PFTriA)	12.0	Spike	P	0 - 35
2274525	Perfluoroundecanoic acid (PFUnA)	12.5	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P403720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.97	LCS	P	0 - 30
LFB	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	12.7	LCS	P	0 - 30
LFB	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.826	LCS	P	0 - 30
LFB	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	14.5	LCS	P	0 - 30
LFB	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	27.5	LCS	P	0 - 30
LFB	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.22	LCS	P	0 - 30
LFB	Hexafluoropropylene oxide dimer acid (HFPO-DA)	17.0	LCS	P	0 - 30
LFB	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.51	LCS	P	0 - 30
LFB	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.01	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.36	LCS	P	0 - 30
LFB	Perfluoro-1-butane sulfonamide (FBSA)	2.87	LCS	P	0 - 30
LFB	Perfluoro-1-hexane sulfonamide (FHxSA)	3.42	LCS	P	0 - 30
LFB	Perfluoro-1-octane sulfonamide (FOSA)	9.10	LCS	P	0 - 30
LFB	Perfluoro-3-methoxypropanoic acid (PFMPA)	2.79	LCS	P	0 - 30
LFB	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	9.32	LCS	P	0 - 30
LFB	Perfluoro-4-methoxybutanoic acid (PFMBA)	8.64	LCS	P	0 - 30
LFB	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	6.46	LCS	P	0 - 30
LFB	Perfluorobutanesulfonic acid (PFBS)	2.91	LCS	P	0 - 30
LFB	Perfluorobutanoic acid (PFBA)	3.63	LCS	P	0 - 30
LFB	Perfluorodecanesulfonic acid (PFDS)	5.77	LCS	P	0 - 30
LFB	Perfluorodecanoic acid (PFDA)	25.7	LCS	P	0 - 30
LFB	Perfluorododecanoic acid (PFDoA)	5.67	LCS	P	0 - 30
LFB	Perfluoroheptanesulfonic acid (PFHpS)	13.7	LCS	P	0 - 30
LFB	Perfluoroheptanoic acid (PFHpA)	13.5	LCS	P	0 - 30
LFB	Perfluorohexanesulfonic acid (PFHxS)	16.4	LCS	P	0 - 30
LFB	Perfluorohexanoic acid (PFHxA)	2.74	LCS	P	0 - 30
LFB	Perfluorononanesulfonic acid (PFNS)	7.75	LCS	P	0 - 30
LFB	Perfluorononanoic acid (PFNA)	28.3	LCS	P	0 - 30
LFB	Perfluorooctanesulfonic acid (PFOS)	2.10	LCS	P	0 - 30
LFB	Perfluorooctanoic acid (PFOA)	29.0	LCS	P	0 - 30
LFB	Perfluoropentanesulfonic acid (PFPeS)	0.562	LCS	P	0 - 30
LFB	Perfluoropentanoic acid (PFPeA)	4.23	LCS	P	0 - 30
LFB	Perfluoropropanesulfonic acid (PFPrS)	15.1	LCS	P	0 - 30
LFB	Perfluorotetradecanoic acid (PFTeA)	1.50	LCS	P	0 - 30
LFB	Perfluorotridecanoic acid (PFTriA)	1.28	LCS	P	0 - 30
LFB	Perfluoroundecanoic acid (PFUnA)	11.5	LCS	P	0 - 30

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2275105	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.337	Spike	P	0 - 30
2275105	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	20.5	Spike	P	0 - 30
2275105	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	13.1	Spike	P	0 - 30
2275105	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	10.4	Spike	P	0 - 30
2275105	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.46	Spike	P	0 - 30
2275105	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.29	Spike	P	0 - 30
2275105	Hexafluoropropylene oxide dimer acid (HFPO-DA)	13.4	Spike	P	0 - 30
2275105	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.02	Spike	P	0 - 30
2275105	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.92	Spike	P	0 - 30
2275105	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	32.4	Spike	F	0 - 30
2275105	Perfluoro-1-butane sulfonamide (FBSA)	3.35	Spike	P	0 - 30
2275105	Perfluoro-1-hexane sulfonamide (FHxSA)	1.87	Spike	P	0 - 30
2275105	Perfluoro-1-octane sulfonamide (FOSA)	7.85	Spike	P	0 - 30
2275105	Perfluoro-3-methoxypropanoic acid (PFMPA)	1.28	Spike	P	0 - 30
2275105	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	1.28	Spike	P	0 - 30
2275105	Perfluoro-4-methoxybutanoic acid (PFMBA)	7.01	Spike	P	0 - 30
2275105	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	6.56	Spike	P	0 - 30
2275105	Perfluorobutanesulfonic acid (PFBS)	6.32	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3
 Batch ID: P403818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2275105	Perfluorobutanoic acid (PFBA)	0.153	Spike	P	0 - 30
2275105	Perfluorodecanesulfonic acid (PFDS)	9.52	Spike	P	0 - 30
2275105	Perfluorodecanoic acid (PFDA)	19.2	Spike	P	0 - 30
2275105	Perfluorododecanoic acid (PFDoA)	43.9	Spike	F	0 - 30
2275105	Perfluoroheptanesulfonic acid (PFHpS)	3.06	Spike	P	0 - 30
2275105	Perfluoroheptanoic acid (PFHpA)	23.2	Spike	P	0 - 30
2275105	Perfluorohexanesulfonic acid (PFHxS)	10.4	Spike	P	0 - 30
2275105	Perfluorohexanoic acid (PFHxA)	6.28	Spike	P	0 - 30
2275105	Perfluorononanesulfonic acid (PFNS)	0.353	Spike	P	0 - 30
2275105	Perfluorononanoic acid (PFNA)	5.19	Spike	P	0 - 30
2275105	Perfluorooctanesulfonic acid (PFOS)	2.48	Spike	P	0 - 30
2275105	Perfluorooctanoic acid (PFOA)	10.8	Spike	P	0 - 30
2275105	Perfluoropentanesulfonic acid (PFPeS)	18.2	Spike	P	0 - 30
2275105	Perfluoropentanoic acid (PFPeA)	1.62	Spike	P	0 - 30
2275105	Perfluoropropanesulfonic acid (PFPrS)	8.49	Spike	P	0 - 30
2275105	Perfluorotetradecanoic acid (PFTeA)	5.64	Spike	P	0 - 30
2275105	Perfluorotridecanoic acid (PFTriA)	5.08	Spike	P	0 - 30
2275105	Perfluoroundecanoic acid (PFUnA)	7.58	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3
 Batch ID: P404198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274570	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	12.5	Spike	P	0 - 35
2274570	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	20.7	Spike	P	0 - 35
2274570	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	3.44	Spike	P	0 - 35
2274570	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16.3	Spike	P	0 - 35
2274570	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.16	Spike	P	0 - 35
2274570	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11.2	Spike	P	0 - 35
2274570	Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.82	Spike	P	0 - 35
2274570	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.20	Spike	P	0 - 35
2274570	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.646	Spike	P	0 - 35
2274570	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	20.2	Spike	P	0 - 35
2274570	Perfluoro-1-butane sulfonamide (FBSA)	12.8	Spike	P	0 - 35
2274570	Perfluoro-1-hexane sulfonamide (FHxSA)	11.0	Spike	P	0 - 35
2274570	Perfluoro-1-octane sulfonamide (FOSA)	6.95	Spike	P	0 - 35
2274570	Perfluoro-3-methoxypropanoic acid (PFMPA)	15.5	Spike	P	0 - 35
2274570	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	12.7	Spike	P	0 - 35
2274570	Perfluoro-4-methoxybutanoic acid (PFMBA)	13.6	Spike	P	0 - 35
2274570	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	6.65	Spike	P	0 - 35
2274570	Perfluorobutanesulfonic acid (PFBS)	0.818	Spike	P	0 - 35
2274570	Perfluorobutanoic acid (PFBA)	6.65	Spike	P	0 - 35
2274570	Perfluorodecanesulfonic acid (PFDS)	6.82	Spike	P	0 - 35
2274570	Perfluorodecanoic acid (PFDA)	9.41	Spike	P	0 - 35
2274570	Perfluorododecanoic acid (PFDoA)	12.9	Spike	P	0 - 35
2274570	Perfluoroheptanesulfonic acid (PFHpS)	8.67	Spike	P	0 - 35
2274570	Perfluoroheptanoic acid (PFHpA)	19.2	Spike	P	0 - 35
2274570	Perfluorohexanesulfonic acid (PFHxS)	6.08	Spike	P	0 - 35
2274570	Perfluorohexanoic acid (PFHxA)	28.6	Spike	P	0 - 35
2274570	Perfluorononanesulfonic acid (PFNS)	14.2	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3
Batch ID: P404198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2274570	Perfluorononanoic acid (PFNA)	9.32	Spike	P	0 - 35
2274570	Perfluorooctanesulfonic acid (PFOS)	2.59	Spike	P	0 - 35
2274570	Perfluorooctanoic acid (PFOA)	28.0	Spike	P	0 - 35
2274570	Perfluoropentanesulfonic acid (PFPeS)	6.14	Spike	P	0 - 35
2274570	Perfluoropentanoic acid (PFPeA)	10.2	Spike	P	0 - 35
2274570	Perfluoropropanesulfonic acid (PFPrS)	10.6	Spike	P	0 - 35
2274570	Perfluorotetradecanoic acid (PFTeA)	12.2	Spike	P	0 - 35
2274570	Perfluorotridecanoic acid (PFTriA)	0.965	Spike	P	0 - 35
2274570	Perfluoroundecanoic acid (PFUnA)	22.4	Spike	P	0 - 35

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2274105
Field Sample ID: SB-8-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	138	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	142	P	30 - 160

Lab Sample ID: 2274106
Field Sample ID: SB-8-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	152	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	82.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	157	P	30 - 160

Lab Sample ID: 2274107
Field Sample ID: SB-8-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	68.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

Lab Sample ID: 2274108
Field Sample ID: SB-9-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	88.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	114	P	30 - 160

Lab Sample ID: 2274109
Field Sample ID: SB-9-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	66.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.2	P	30 - 160

Lab Sample ID: 2274110
Field Sample ID: SB-9-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.1	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2274110
Field Sample ID: SB-9-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	131	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.7	P	30 - 160

Lab Sample ID: 2274111
Field Sample ID: SB-10-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	107	P	30 - 160

Lab Sample ID: 2274112
Field Sample ID: SB-10-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	92.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	84.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	134	P	30 - 160

Lab Sample ID: 2274113
Field Sample ID: SB-10-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	98.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.5	P	30 - 160

Lab Sample ID: 2274114
Field Sample ID: SB-11-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	53.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	144	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	120	P	30 - 160

Lab Sample ID: 2274115
Field Sample ID: SB-11-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	67.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.7	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2274115
Field Sample ID: SB-11-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.8	P	30 - 160

Lab Sample ID: 2274116
Field Sample ID: SB-11-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	76.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	82.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	110	P	30 - 160

Lab Sample ID: 2274129
Field Sample ID: SB-12-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	94.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2274130
Field Sample ID: SB-12-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2274131
Field Sample ID: SB-12-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.1	P	30 - 160

Lab Sample ID: 2274132
Field Sample ID: SB-13-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	81.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.1	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2274133
Field Sample ID: SB-13-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	63.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	147	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	109	P	30 - 160

Lab Sample ID: 2274134
Field Sample ID: SB-13-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	139	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.9	P	30 - 160

Lab Sample ID: 2274135
Field Sample ID: SB-14-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	143	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	79.8	P	30 - 160

Lab Sample ID: 2274136
Field Sample ID: SB-14-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	92.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.5	P	30 - 160

Lab Sample ID: 2274137
Field Sample ID: SB-14-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	137	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	144	P	30 - 160

Lab Sample ID: 2274138
Field Sample ID: SB-15-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	76.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.5	P	30 - 160

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Lab Sample ID: 2274138
Field Sample ID: SB-15-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	134	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	101	P	30 - 160

Lab Sample ID: 2274139
Field Sample ID: SB-15-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	90.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	110	P	30 - 160

Lab Sample ID: 2274140
Field Sample ID: SB-15-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	94.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	147	P	30 - 160

Lab Sample ID: 2274164
Field Sample ID: SB-16-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	141	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.2	P	30 - 160

Lab Sample ID: 2274165
Field Sample ID: SB-16-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	60.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	76.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.8	P	30 - 160

Lab Sample ID: 2274166
Field Sample ID: SB-16-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	80.9	P	30 - 160

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Lab Sample ID: 2274166
Field Sample ID: SB-16-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	101	P	30 - 160

Lab Sample ID: 2274167
Field Sample ID: SB-17-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	90.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2274168
Field Sample ID: SB-17-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	136	P	30 - 160

Lab Sample ID: 2274169
Field Sample ID: SB-18-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	82.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	127	P	30 - 160

Lab Sample ID: 2274170
Field Sample ID: SB-18-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	95.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	105	P	30 - 160

Lab Sample ID: 2274171
Field Sample ID: SB-18-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

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Lab Sample ID: 2274172
Field Sample ID: SB-19-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2274173
Field Sample ID: SB-17-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	90.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2274174
Field Sample ID: SB-19-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	83.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

Lab Sample ID: 2274175
Field Sample ID: SB-19-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	144	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	110	P	30 - 160

Lab Sample ID: 2274191
Field Sample ID: SB-20-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	81.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	145	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

Lab Sample ID: 2274192
Field Sample ID: SB-20-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.3	P	30 - 160

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Lab Sample ID: 2274192
Field Sample ID: SB-20-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	111	P	30 - 160

Lab Sample ID: 2274193
Field Sample ID: SB-20-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	68.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.9	P	30 - 160

Lab Sample ID: 2274194
Field Sample ID: SB-21-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	65.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.2	P	30 - 160

Lab Sample ID: 2274195
Field Sample ID: SB-21-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	158	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	80.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	107	P	30 - 160

Lab Sample ID: 2274196
Field Sample ID: SB-21-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.7	P	30 - 160

Lab Sample ID: 2274197
Field Sample ID: SB-22-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	63.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.7	P	30 - 160

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Lab Sample ID: 2274197
 Field Sample ID: SB-22-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	115	P	30 - 160

Lab Sample ID: 2274198
 Field Sample ID: SB-22-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	76.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	105	P	30 - 160

Lab Sample ID: 2274199
 Field Sample ID: SB-22-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	110	P	30 - 160

Lab Sample ID: 2274200
 Field Sample ID: SB-23-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	76.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	134	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	137	P	30 - 160

Lab Sample ID: 2274201
 Field Sample ID: SB-23-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	66.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.7	P	30 - 160

Lab Sample ID: 2274202
 Field Sample ID: SB-23-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	124	P	30 - 160

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Lab Sample ID: 2274291
Field Sample ID: SB-24-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	81.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	137	P	30 - 160

Lab Sample ID: 2274292
Field Sample ID: SB-24-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.2	P	30 - 160

Lab Sample ID: 2274293
Field Sample ID: SB-24-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	144	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.3	P	30 - 160

Lab Sample ID: 2274294
Field Sample ID: SB-25-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	132	P	30 - 160

Lab Sample ID: 2274295
Field Sample ID: SB-25-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	83.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	110	P	30 - 160

Lab Sample ID: 2274296
Field Sample ID: SB-25-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	95.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.7	P	30 - 160

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Lab Sample ID: 2274296
Field Sample ID: SB-25-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	73.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	122	P	30 - 160

Lab Sample ID: 2274297
Field Sample ID: SB-26-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	142	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.5	P	30 - 160

Lab Sample ID: 2274298
Field Sample ID: SB-26-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	112	P	30 - 160

Lab Sample ID: 2274299
Field Sample ID: SB-26-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	60.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	81.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	81.8	P	30 - 160

Lab Sample ID: 2274300
Field Sample ID: SB-27-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	58.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	77.5	P	30 - 160

Lab Sample ID: 2274301
Field Sample ID: SB-27-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	62.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	87.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.6	P	30 - 160

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Lab Sample ID: 2274301
Field Sample ID: SB-27-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.7	P	30 - 160

Lab Sample ID: 2274302
Field Sample ID: SB-27-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	101	P	30 - 160

Lab Sample ID: 2274342
Field Sample ID: SB-28-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	55.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	75.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.5	P	30 - 160

Lab Sample ID: 2274343
Field Sample ID: SB-28-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	135	P	30 - 160

Lab Sample ID: 2274344
Field Sample ID: SB-28-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	64.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.9	P	30 - 160

Lab Sample ID: 2274345
Field Sample ID: SB-29-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	99.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	99.9	P	30 - 160

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Lab Sample ID: 2274346
Field Sample ID: SB-29-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	82.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2274347
Field Sample ID: SB-29-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	81.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	139	P	30 - 160

Lab Sample ID: 2274348
Field Sample ID: SB-30-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	76.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.2	P	30 - 160

Lab Sample ID: 2274349
Field Sample ID: SB-30-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	64.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	89.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	79.1	P	30 - 160

Lab Sample ID: 2274350
Field Sample ID: SB-30-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	103	P	30 - 160

Lab Sample ID: 2274351
Field Sample ID: SB-31-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.9	P	30 - 160

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Lab Sample ID: 2274351
Field Sample ID: SB-31-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	160	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	114	P	30 - 160

Lab Sample ID: 2274352
Field Sample ID: SB-31-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	99.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.8	P	30 - 160

Lab Sample ID: 2274353
Field Sample ID: SB-31-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	124	P	30 - 160

Lab Sample ID: 2274371
Field Sample ID: SB-32-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.4	P	30 - 160

Lab Sample ID: 2274372
Field Sample ID: SB-32-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	88.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	120	P	30 - 160

Lab Sample ID: 2274373
Field Sample ID: SB-32-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	65.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	129	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.1	P	30 - 160

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Lab Sample ID: 2274373
Field Sample ID: SB-32-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.9	P	30 - 160

Lab Sample ID: 2274374
Field Sample ID: SB-33-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	55.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	151	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.3	P	30 - 160

Lab Sample ID: 2274375
Field Sample ID: SB-33-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	119	P	30 - 160

Lab Sample ID: 2274376
Field Sample ID: SB-33-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	88.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	82.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.3	P	30 - 160

Lab Sample ID: 2274377
Field Sample ID: SB-34-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	65.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.4	P	30 - 160

Lab Sample ID: 2274378
Field Sample ID: SB-34-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	118	P	30 - 160

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Lab Sample ID: 2274379
Field Sample ID: SB-34-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	63.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	83.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	152	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.9	P	30 - 160

Lab Sample ID: 2274380
Field Sample ID: SB-35-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	48.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	69.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	64.2	P	30 - 160

Lab Sample ID: 2274381
Field Sample ID: SB-35-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	56.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	99.4	P	30 - 160

Lab Sample ID: 2274382
Field Sample ID: SB-35-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	58.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2274399
Field Sample ID: SB-36-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	93.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	120	P	30 - 160

Lab Sample ID: 2274400
Field Sample ID: SB-36-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	62.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	79.5	P	30 - 160

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Lab Sample ID: 2274400
Field Sample ID: SB-36-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	81.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.7	P	30 - 160

Lab Sample ID: 2274401
Field Sample ID: SB-37-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	47.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	82.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.9	P	30 - 160

Lab Sample ID: 2274402
Field Sample ID: SB-37-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	112	P	30 - 160

Lab Sample ID: 2274403
Field Sample ID: SB-37-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	63.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	66.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.6	P	30 - 160

Lab Sample ID: 2274404
Field Sample ID: SB-38-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	66.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2274405
Field Sample ID: SB-38-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	64.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.7	P	30 - 160

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Lab Sample ID: 2274405
Field Sample ID: SB-38-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	110	P	30 - 160

Lab Sample ID: 2274406
Field Sample ID: SB-38-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	55.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	92.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2274407
Field Sample ID: SB-39-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	67.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	76.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	113	P	30 - 160

Lab Sample ID: 2274408
Field Sample ID: SB-39-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	133	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.0	P	30 - 160

Lab Sample ID: 2274409
Field Sample ID: SB-39-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	109	P	30 - 160

Lab Sample ID: 2274521
Field Sample ID: SB-40-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	95.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.1	P	30 - 160

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Lab Sample ID: 2274522
Field Sample ID: SB-40-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	51.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	96.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	82.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.6	P	30 - 160

Lab Sample ID: 2274523
Field Sample ID: SB-40-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	103	P	30 - 160

Lab Sample ID: 2274524
Field Sample ID: SB-41-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	68.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.2	P	30 - 160

Lab Sample ID: 2274525
Field Sample ID: SB-41-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	81.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	112	P	30 - 160

Lab Sample ID: 2274526
Field Sample ID: SB-41-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	68.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	129	P	30 - 160

Lab Sample ID: 2274527
Field Sample ID: SB-42-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.5	P	30 - 160

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Lab Sample ID: 2274527
Field Sample ID: SB-42-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2274528
Field Sample ID: SB-42-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	95.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	87.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	107	P	30 - 160

Lab Sample ID: 2274529
Field Sample ID: SB-42-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	65.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2274530
Field Sample ID: SB-43-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	63.9	P	30 - 160

Lab Sample ID: 2274531
Field Sample ID: SB-43-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.2	P	30 - 160

Lab Sample ID: 2274532
Field Sample ID: SB-43-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	94.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.1	P	30 - 160

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Lab Sample ID: 2274532
Field Sample ID: SB-43-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.8	P	30 - 160

Lab Sample ID: 2274545
Field Sample ID: SB-44-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	92.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.2	P	30 - 160

Lab Sample ID: 2274546
Field Sample ID: SB-44-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	84.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.2	P	30 - 160

Lab Sample ID: 2274547
Field Sample ID: SB-44-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.9	P	30 - 160

Lab Sample ID: 2274548
Field Sample ID: SB-45-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	72.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.1	P	30 - 160

Lab Sample ID: 2274549
Field Sample ID: SB-45-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	49.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.4	P	30 - 160

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Lab Sample ID: 2274550
Field Sample ID: SB-45-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	106	P	30 - 160

Lab Sample ID: 2274551
Field Sample ID: SB-46-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	89.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	116	P	30 - 160

Lab Sample ID: 2274552
Field Sample ID: SB-46-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	115	P	30 - 160

Lab Sample ID: 2274553
Field Sample ID: SB-46-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	58.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.1	P	30 - 160

Lab Sample ID: 2274554
Field Sample ID: SB-47-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	112	P	30 - 160

Lab Sample ID: 2274555
Field Sample ID: SB-47-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	103	P	30 - 160

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Lab Sample ID: 2274555
Field Sample ID: SB-47-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2274556
Field Sample ID: SB-47-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	142	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	105	P	30 - 160

Lab Sample ID: 2274569
Field Sample ID: SB-5R-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	59.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	98.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	117	P	30 - 160

Lab Sample ID: 2274570
Field Sample ID: SED-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	81.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	78.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.2	P	30 - 160

Lab Sample ID: 2274571
Field Sample ID: SED-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	77.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.3	P	30 - 160

Lab Sample ID: 2274572
Field Sample ID: EQB-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	96.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	84.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.9	P	30 - 160

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Lab Sample ID: 2274572
Field Sample ID: EQB-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.0	P	30 - 160

Lab Sample ID: 2274573
Field Sample ID: EQB-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	92.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	69.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.2	P	30 - 160

Lab Sample ID: 2274574
Field Sample ID: EQB-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	77.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	78.4	P	30 - 160

Lab Sample ID: 2274575
Field Sample ID: EQB-4

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	77.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	98.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.3	P	30 - 160

Lab Sample ID: 2274576
Field Sample ID: EQB-5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	96.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.9	P	30 - 160

Lab Sample ID: 2274577
Field Sample ID: EQB-6

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.4	P	30 - 160

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Lab Sample ID: 2274578
Field Sample ID: EQB-7

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	72.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	83.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.6	P	30 - 160

Lab Sample ID: 2274579
Field Sample ID: FRB-SB-32

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	67.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.4	P	30 - 160

Lab Sample ID: 2274580
Field Sample ID: FRB-SW-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	99.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	89.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	62.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.1	P	30 - 160

Lab Sample ID: 2274593
Field Sample ID: SED-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	87.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.1	P	30 - 160

Lab Sample ID: 2274594
Field Sample ID: SW-1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	97.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.3	P	30 - 160

Lab Sample ID: 2274595
Field Sample ID: SW-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.3	P	30 - 160

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Lab Sample ID: 2274595
Field Sample ID: SW-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.0	P	30 - 160

Lab Sample ID: 2274596
Field Sample ID: SW-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	95.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.1	P	30 - 160

Lab Sample ID: 2274597
Field Sample ID: DUP-SW-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	92.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	76.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	78.9	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107745

Included Lab Sample IDs: 2274132

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorooctanesulfonic acid (PFOS)	81.6	89.9	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A107790

Included Lab Sample IDs: 2274195, 2274196, 2274197, 2274198, 2274199, 2274200, 2274201, 2274202, 2274291, 2274292, 2274293, 2274294, 2274295, 2274296, 2274297, 2274298, 2274299, 2274300, 2274301, 2274302, 2274342, 2274343, 2274344, 2274345, 2274346, 2274347, 2274348, 2274349, 2274350, 2274351, 2274352, 2274353, 2274371, 2274372, 2274373, 2274374, 2274375, 2274376, 2274377, 2274378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	64.5	69.2	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	68.5	72.6	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	69.8	64.5	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	70.8	76.5	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	72.6	70.8	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	76.5	69.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	102	92.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	103	93.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	107	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	92.0	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.0	107	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.6	102	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	108	87.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	108	96.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	114	102	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	87.8	114	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	72.4	88.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	78.3	72.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	86.3	87.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	87.7	78.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	88.1	84.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.4	86.3	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	104	115	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	115	122	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	122	150	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	132	104	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	136	128	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	150	136	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	78.1	85.7	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	79.0	79.1	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	79.1	94.0	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	82.8	79.0	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	83.4	78.1	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	94.0	83.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	69.1	93.5	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	76.7	87.7	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.7	89.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	89.2	69.1	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.5	76.0	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.8	76.7	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107790

Included Lab Sample IDs: 2274195, 2274196, 2274197, 2274198, 2274199, 2274200, 2274201, 2274202, 2274291, 2274292, 2274293, 2274294, 2274295, 2274296, 2274297, 2274298, 2274299, 2274300, 2274301, 2274302, 2274342, 2274343, 2274344, 2274345, 2274346, 2274347, 2274348, 2274349, 2274350, 2274351, 2274352, 2274353, 2274371, 2274372, 2274373, 2274374, 2274375, 2274376, 2274377, 2274378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	82.6	91.8	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.3	85.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.6	82.6	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.5	88.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	89.7	84.6	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	91.8	84.3	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	96.0	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	88.0	99.6	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	88.1	95.6	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	94.9	88.1	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	95.6	100	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	96.0	88.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	72.6	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.5	60.6	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.6	62.9	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	62.9	83.8	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	72.6	60.5	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	83.8	82.5	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	73.9	79.3	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	74.7	75.7	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	75.7	74.6	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	76.3	74.7	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	79.3	81.3	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	81.3	76.3	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	74.3	78.7	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	76.0	73.6	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	76.0	77.5	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	77.5	76.0	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	78.7	86.1	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	86.1	76.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	88.0	98.1	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	89.9	97.7	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	94.9	93.7	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	96.9	89.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	97.7	94.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.1	96.9	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	78.1	84.9	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	81.2	89.4	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	84.2	78.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	84.9	87.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	87.1	81.0	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	89.4	84.2	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	68.9	70.2	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	69.8	78.7	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	70.2	72.4	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	72.4	69.8	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.3	68.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	78.7	78.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	74.8	82.2	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107790

Included Lab Sample IDs: 2274195, 2274196, 2274197, 2274198, 2274199, 2274200, 2274201, 2274202, 2274291, 2274292, 2274293, 2274294, 2274295, 2274296, 2274297, 2274298, 2274299, 2274300, 2274301, 2274302, 2274342, 2274343, 2274344, 2274345, 2274346, 2274347, 2274348, 2274349, 2274350, 2274351, 2274352, 2274353, 2274371, 2274372, 2274373, 2274374, 2274375, 2274376, 2274377, 2274378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	77.6	84.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	79.5	88.3	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	82.2	89.2	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	84.1	79.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	89.2	77.6	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	72.6	75.9	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	73.1	79.5	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	76.2	73.1	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	77.6	79.6	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	79.5	77.6	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	79.6	72.6	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	85.3	86.3	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	85.3	87.1	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	87.1	91.7	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	89.6	85.3	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	91.7	89.6	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	99.4	85.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	91.3	96.5	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	92.2	89.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	92.3	92.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	92.7	92.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	96.5	92.7	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	96.5	96.5	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	76.9	84.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	80.6	77.1	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	81.5	85.0	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	81.8	80.6	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	84.3	81.5	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	85.0	81.8	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	102	87.1	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	110	95.7	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	66.0	110	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	86.3	61.7	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	87.1	86.3	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	95.7	102	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	100	75.1	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	107	99.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	71.2	85.2	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	75.1	76.6	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	76.6	107	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	99.8	71.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	69.7	78.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.5	74.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	74.5	75.7	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.7	69.7	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	78.6	77.7	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	79.0	72.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	107	94.7	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	72.8	73.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107790

Included Lab Sample IDs: 2274195, 2274196, 2274197, 2274198, 2274199, 2274200, 2274201, 2274202, 2274291, 2274292, 2274293, 2274294, 2274295, 2274296, 2274297, 2274298, 2274299, 2274300, 2274301, 2274302, 2274342, 2274343, 2274344, 2274345, 2274346, 2274347, 2274348, 2274349, 2274350, 2274351, 2274352, 2274353, 2274371, 2274372, 2274373, 2274374, 2274375, 2274376, 2274377, 2274378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoroheptanoic acid (PFHpA)	73.1	78.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	78.5	91.4	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	83.5	107	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	94.7	72.8	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	102	93.6	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	82.0	87.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	84.1	102	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	87.0	87.4	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	87.4	84.1	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.5	82.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	131	88.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	72.2	81.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	81.2	131	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	83.2	107	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	88.2	83.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	98.5	72.2	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	85.1	95.7	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	85.5	92.2	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	92.5	97.4	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	95.7	92.5	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	97.4	97.6	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	97.6	85.5	P/P	60 - 160
Perfluorononanoic acid (PFNA)	106	117	P/P	60 - 160
Perfluorononanoic acid (PFNA)	112	128	P/P	60 - 160
Perfluorononanoic acid (PFNA)	117	131	P/P	60 - 160
Perfluorononanoic acid (PFNA)	128	106	P/P	60 - 160
Perfluorononanoic acid (PFNA)	155	95.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	95.8	112	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	81.1	81.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	81.3	83.9	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	84.9	89.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	88.0	88.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	88.7	81.1	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	89.3	88.0	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	75.6	96.5	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	76.3	84.0	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	83.4	94.7	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	84.0	83.4	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	94.7	93.9	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	96.5	76.3	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	83.6	83.6	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	83.6	85.5	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	85.5	86.8	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	86.2	87.8	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	86.8	86.2	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	90.2	83.6	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	102	79.5	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	79.5	80.1	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	79.5	91.8	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107790

Included Lab Sample IDs: 2274195, 2274196, 2274197, 2274198, 2274199, 2274200, 2274201, 2274202, 2274291, 2274292, 2274293, 2274294, 2274295, 2274296, 2274297, 2274298, 2274299, 2274300, 2274301, 2274302, 2274342, 2274343, 2274344, 2274345, 2274346, 2274347, 2274348, 2274349, 2274350, 2274351, 2274352, 2274353, 2274371, 2274372, 2274373, 2274374, 2274375, 2274376, 2274377, 2274378

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropentanoic acid (PFPeA)	80.1	97.7	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	85.3	79.5	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	97.7	85.3	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	80.7	88.2	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	88.2	96.1	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	89.9	80.7	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.6	89.9	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.8	93.6	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	96.1	95.4	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	115	96.8	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	139	66.3	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	60.4	78.9	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	66.3	60.4	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	66.9	139	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	78.9	115	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	101	150	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	114	80.7	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	121	114	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	150	120	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	74.7	121	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	80.7	101	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	108	72.0	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	122	108	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	124	88.8	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	129	83.6	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	72.0	124	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	83.6	122	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A107800

Included Lab Sample IDs: 2274105, 2274106, 2274107, 2274108, 2274109, 2274110, 2274111, 2274112, 2274113, 2274114, 2274115, 2274116, 2274129, 2274130, 2274131, 2274132, 2274133, 2274134, 2274135, 2274136, 2274137, 2274138, 2274139, 2274140, 2274164, 2274165, 2274166, 2274167, 2274168, 2274169, 2274170, 2274171, 2274172, 2274173, 2274174, 2274175, 2274191, 2274192, 2274193, 2274194

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	68.0	69.7	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	68.1	70.2	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	69.7	68.1	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	70.2	68.5	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	70.6	68.0	P/P	60 - 160
11-Chloroicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	73.6	70.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	103	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	103	90.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.1	95.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.3	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.0	93.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	93.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	95.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	108	101	P/P	60 - 160

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Reference Method: DEP SOP: LC-001-3

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Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	93.7	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.6	96.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.8	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	77.8	85.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	80.0	77.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	83.5	89.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	85.5	90.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	90.0	83.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	90.8	80.0	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	108	150	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	112	136	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	122	108	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	136	122	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	146	143	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	150	146	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	76.7	85.0	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	80.5	80.7	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	80.7	82.4	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	82.4	76.7	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	83.4	86.5	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	86.5	80.5	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	120	102	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.4	86.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.6	92.7	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	86.2	120	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	92.7	99.1	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.1	79.4	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	78.2	89.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	83.4	88.3	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.1	86.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	86.5	78.2	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	89.1	83.4	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.9	84.1	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	103	86.5	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	86.5	85.7	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	94.0	103	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	94.9	99.4	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	96.2	94.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	99.4	94.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	63.4	63.6	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	63.6	61.1	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	66.0	87.6	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	66.4	63.4	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	66.7	66.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	87.6	66.4	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	73.5	78.7	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	73.8	78.8	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	75.1	73.5	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	78.7	67.8	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107800

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Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-1-butane sulfonamide (FBSA)	78.8	75.1	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	83.6	73.8	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	77.2	81.9	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	77.6	81.7	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	78.8	77.6	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	81.7	71.4	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	81.9	78.8	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	82.8	77.2	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	91.2	95.6	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	92.0	95.8	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	93.7	92.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.6	98.7	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.8	89.1	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.7	93.7	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	74.1	83.3	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	78.0	84.7	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	81.5	77.6	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	83.3	74.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	83.3	78.0	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	84.7	81.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	69.5	71.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	70.5	69.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	72.9	73.8	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	73.8	74.4	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.4	70.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	79.8	72.9	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	72.9	86.3	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	76.1	82.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	79.9	72.9	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	86.3	86.6	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	86.6	91.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	91.0	76.1	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	74.1	76.7	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	76.4	74.1	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	76.7	81.0	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	78.2	75.9	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	81.0	76.4	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	81.0	78.2	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	87.0	92.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	88.0	87.0	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	88.1	88.0	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	88.5	85.1	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	92.8	88.5	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	93.5	88.1	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	83.0	86.4	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	83.0	88.1	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	83.4	83.0	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	84.8	83.4	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	88.1	84.8	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107800

Included Lab Sample IDs: 2274105, 2274106, 2274107, 2274108, 2274109, 2274110, 2274111, 2274112, 2274113, 2274114, 2274115, 2274116, 2274129, 2274130, 2274131, 2274132, 2274133, 2274134, 2274135, 2274136, 2274137, 2274138, 2274139, 2274140, 2274164, 2274165, 2274166, 2274167, 2274168, 2274169, 2274170, 2274171, 2274172, 2274173, 2274174, 2274175, 2274191, 2274192, 2274193, 2274194

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorobutanoic acid (PFBA)	89.3	83.0	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	75.7	78.0	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	77.5	80.8	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	78.0	79.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	80.8	81.2	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	81.2	84.1	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	84.1	75.7	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	120	78.4	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	76.4	104	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	78.4	80.4	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	80.4	76.4	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	82.3	84.9	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	84.9	120	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	116	64.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	64.8	82.1	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	82.6	86.1	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	86.1	96.4	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	90.9	116	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	96.4	90.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	68.4	72.3	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.3	80.1	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.8	77.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.4	68.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	77.5	76.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	87.1	72.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	63.6	84.3	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	79.5	94.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	83.5	87.3	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	84.3	93.3	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	87.3	63.6	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	93.3	79.5	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	79.7	88.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	83.2	97.6	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	88.0	92.5	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.8	83.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	94.1	79.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	97.6	94.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	64.0	104	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	66.7	64.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	81.7	88.9	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	87.1	66.7	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	88.0	81.7	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	88.9	87.1	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	86.1	95.1	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	88.5	92.3	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	89.3	88.5	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	91.6	91.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	91.9	89.3	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	95.1	91.6	P/P	60 - 160

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Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorononanoic acid (PFNA)	113	113	P/P	60 - 160
Perfluorononanoic acid (PFNA)	113	96.2	P/P	60 - 160
Perfluorononanoic acid (PFNA)	93.6	97.6	P/P	60 - 160
Perfluorononanoic acid (PFNA)	94.6	95.0	P/P	60 - 160
Perfluorononanoic acid (PFNA)	95.0	93.6	P/P	60 - 160
Perfluorononanoic acid (PFNA)	97.6	113	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	84.0	84.1	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	84.1	83.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	85.1	86.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	86.7	89.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	89.0	85.1	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	89.7	84.0	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	109	79.0	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	112	68.1	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	78.5	112	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	79.0	79.3	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	79.3	83.4	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	83.4	78.5	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	77.2	83.1	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	79.9	83.5	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	83.1	88.0	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	83.5	77.2	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	88.0	83.1	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	93.7	79.9	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	73.6	76.9	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	76.2	82.1	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	76.9	81.2	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	82.1	73.6	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	88.1	89.5	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	89.5	76.2	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	81.2	86.3	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	86.1	81.9	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	86.3	86.1	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	88.0	93.0	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	92.6	88.0	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.0	81.2	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	113	76.4	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	70.8	96.9	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	76.4	70.8	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	88.1	69.1	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	96.9	99.4	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	99.4	88.1	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	114	124	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	124	90.7	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	140	140	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	140	91.2	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	144	114	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	90.7	140	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	101	61.0	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107800

Included Lab Sample IDs: 2274105, 2274106, 2274107, 2274108, 2274109, 2274110, 2274111, 2274112, 2274113, 2274114, 2274115, 2274116, 2274129, 2274130, 2274131, 2274132, 2274133, 2274134, 2274135, 2274136, 2274137, 2274138, 2274139, 2274140, 2274164, 2274165, 2274166, 2274167, 2274168, 2274169, 2274170, 2274171, 2274172, 2274173, 2274174, 2274175, 2274191, 2274192, 2274193, 2274194

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoroundecanoic acid (PFUnA)	139	148	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	148	101	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	155	81.6	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	61.0	79.6	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	79.6	155	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A107846

Included Lab Sample IDs: 2274379, 2274380, 2274381, 2274382, 2274399, 2274400, 2274401, 2274402, 2274403, 2274404, 2274405, 2274406, 2274407, 2274408, 2274409, 2274521, 2274522, 2274523, 2274524, 2274525, 2274526, 2274527, 2274528, 2274529, 2274530, 2274531, 2274532, 2274545, 2274546, 2274547, 2274548, 2274549, 2274550, 2274551, 2274552, 2274553, 2274554, 2274555, 2274556, 2274569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	73.3	75.0	P/P	60 - 160
11-Chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	75.0	68.8	P/P	60 - 160
11-Chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	76.7	73.3	P/P	60 - 160
11-Chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	86.8	90.6	P/P	60 - 160
11-Chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	90.6	93.3	P/P	60 - 160
11-Chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	93.3	84.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	108	110	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	97.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.5	87.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	87.8	92.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	92.0	85.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.7	121	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	82.3	89.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	86.0	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.0	88.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.1	86.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.8	97.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	89.1	88.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	100	91.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	102	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	98.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	91.5	102	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.3	108	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	101	82.3	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	121	158	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	154	152	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158	154	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	82.3	92.2	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	92.1	101	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	75.5	83.8	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	78.4	75.5	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	83.8	76.2	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	84.4	89.8	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	89.8	87.0	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	94.1	84.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	100	96.6	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107846

Included Lab Sample IDs: 2274379, 2274380, 2274381, 2274382, 2274399, 2274400, 2274401, 2274402, 2274403, 2274404, 2274405, 2274406, 2274407, 2274408, 2274409, 2274521, 2274522, 2274523, 2274524, 2274525, 2274526, 2274527, 2274528, 2274529, 2274530, 2274531, 2274532, 2274545, 2274546, 2274547, 2274548, 2274549, 2274550, 2274551, 2274552, 2274553, 2274554, 2274555, 2274556, 2274569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexafluoropropylene oxide dimer acid (HFPO-DA)	110	77.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	121	110	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.5	121	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	94.8	124	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	96.6	94.8	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	79.9	76.7	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	80.0	79.9	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.5	87.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	87.1	79.8	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	88.2	84.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.5	80.0	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	104	86.7	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	86.7	75.7	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	88.2	90.3	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	90.1	104	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	90.3	95.1	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	95.1	95.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	111	113	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	113	150	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	150	81.9	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.5	68.9	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	61.5	60.5	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	68.9	61.1	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	67.0	69.5	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	69.5	72.5	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	70.5	67.0	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	90.0	90.5	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	90.5	93.1	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	93.1	90.5	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	77.5	78.8	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	78.2	77.5	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	81.0	78.2	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	85.1	87.0	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	87.0	93.2	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	92.1	85.1	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	80.7	88.2	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	88.2	86.4	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	90.1	80.7	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	92.7	93.2	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	93.2	94.8	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	94.8	92.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	74.8	87.0	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	81.0	74.8	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	87.0	81.7	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	91.6	96.4	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	93.0	91.6	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	96.4	87.2	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	104	86.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	64.0	68.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107846

Included Lab Sample IDs: 2274379, 2274380, 2274381, 2274382, 2274399, 2274400, 2274401, 2274402, 2274403, 2274404, 2274405, 2274406, 2274407, 2274408, 2274409, 2274521, 2274522, 2274523, 2274524, 2274525, 2274526, 2274527, 2274528, 2274529, 2274530, 2274531, 2274532, 2274545, 2274546, 2274547, 2274548, 2274549, 2274550, 2274551, 2274552, 2274553, 2274554, 2274555, 2274556, 2274569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	67.0	68.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	68.9	64.0	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.8	90.4	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	86.9	82.8	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	110	89.6	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	78.5	84.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	84.4	90.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	86.1	78.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	89.6	96.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	96.5	93.4	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	77.2	81.9	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	81.9	82.1	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	82.1	81.5	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	89.6	91.8	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	91.8	94.4	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	94.4	92.3	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	82.5	83.9	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	83.9	94.1	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	85.0	78.9	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	85.0	85.5	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	85.5	85.0	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	94.1	86.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	88.1	90.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	89.5	92.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	90.2	90.0	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	91.0	91.4	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	91.4	89.5	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	92.8	88.1	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	82.8	85.8	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	84.4	81.4	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	85.8	84.4	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	89.5	92.9	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	92.1	89.5	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	92.9	88.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	101	113	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	113	116	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	116	87.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	124	71.6	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	70.8	124	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	71.6	102	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	117	137	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	132	117	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	137	127	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	73.1	84.3	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	76.2	73.1	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	84.3	60.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	100	79.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	64.2	69.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	66.9	67.5	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107846

Included Lab Sample IDs: 2274379, 2274380, 2274381, 2274382, 2274399, 2274400, 2274401, 2274402, 2274403, 2274404, 2274405, 2274406, 2274407, 2274408, 2274409, 2274521, 2274522, 2274523, 2274524, 2274525, 2274526, 2274527, 2274528, 2274529, 2274530, 2274531, 2274532, 2274545, 2274546, 2274547, 2274548, 2274549, 2274550, 2274551, 2274552, 2274553, 2274554, 2274555, 2274556, 2274569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	67.5	64.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	79.4	85.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	85.2	85.9	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	123	98.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	131	123	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	151	79.7	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	81.3	83.4	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	83.4	151	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	88.8	131	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	71.8	78.5	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	71.8	78.6	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	78.5	71.8	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	84.5	85.8	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	85.8	88.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	98.1	84.5	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	108	77.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	75.2	79.5	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	77.3	75.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	81.1	134	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	87.7	81.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	95.4	87.7	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	87.5	95.6	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	88.0	87.5	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	88.4	88.6	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	88.6	91.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	89.6	88.4	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	95.6	86.9	P/P	60 - 160
Perfluorononanoic acid (PFNA)	115	153	P/P	60 - 160
Perfluorononanoic acid (PFNA)	132	83.6	P/P	60 - 160
Perfluorononanoic acid (PFNA)	153	143	P/P	60 - 160
Perfluorononanoic acid (PFNA)	83.6	154	P/P	60 - 160
Perfluorononanoic acid (PFNA)	89.7	132	P/P	60 - 160
Perfluorononanoic acid (PFNA)	91.3	115	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	81.1	80.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	82.6	81.1	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	83.1	82.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	85.4	95.2	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	93.0	85.4	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	95.2	83.7	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	120	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	120	93.5	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	70.8	73.9	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	73.9	81.5	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	81.5	69.8	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	93.5	89.1	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	85.4	88.7	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	88.7	92.7	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	91.5	92.7	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	92.7	84.9	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107846

Included Lab Sample IDs: 2274379, 2274380, 2274381, 2274382, 2274399, 2274400, 2274401, 2274402, 2274403, 2274404, 2274405, 2274406, 2274407, 2274408, 2274409, 2274521, 2274522, 2274523, 2274524, 2274525, 2274526, 2274527, 2274528, 2274529, 2274530, 2274531, 2274532, 2274545, 2274546, 2274547, 2274548, 2274549, 2274550, 2274551, 2274552, 2274553, 2274554, 2274555, 2274556, 2274569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropentanesulfonic acid (PFPeS)	96.3	96.9	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	96.9	91.5	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	110	79.6	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	79.6	81.3	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	81.3	98.9	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	86.8	109	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	89.8	86.8	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	97.1	89.8	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	102	90.6	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	108	84.2	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	84.2	89.0	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	89.0	88.8	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	90.6	92.9	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	92.9	90.0	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	60.2	72.8	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	72.8	115	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	75.2	83.1	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	79.0	60.2	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	79.1	97.1	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	83.1	79.1	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	100	110	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	105	117	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	110	138	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	110	86.8	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	138	108	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	86.8	105	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	119	76.5	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	76.5	123	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	78.1	74.4	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	80.0	119	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	92.2	95.3	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.3	78.1	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A107866

Included Lab Sample IDs: 2274569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorooctanesulfonic acid (PFOS)	93.8	93.6	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A107870

Included Lab Sample IDs: 2274580, 2274594, 2274595, 2274596, 2274597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	85.1	93.2	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.2	85.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	100	86.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.8	100	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107870

Included Lab Sample IDs: 2274580, 2274594, 2274595, 2274596, 2274597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	107	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	108	94.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	102	99.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.5	109	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	64.6	69.7	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	83.6	119	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	92.5	99.6	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	95.4	92.5	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	124	91.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.8	135	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	92.1	95.0	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.0	94.3	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	83.5	88.5	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	88.5	94.9	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	126	91.1	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	158	126	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	73.2	90.9	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	90.9	90.2	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	81.9	90.8	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	90.8	84.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	86.8	93.2	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	93.2	84.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	91.1	96.2	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	96.2	98.7	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	94.1	92.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	98.4	94.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	108	112	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	80.9	108	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	94.8	97.2	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	97.2	86.5	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	101	86.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	86.8	84.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	74.5	92.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	92.3	88.0	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	97.0	96.1	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	97.2	97.0	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	124	90.9	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	99.6	124	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	107	102	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	88.1	107	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	92.7	88.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	99.9	92.7	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	85.1	95.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	95.5	90.6	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	88.2	91.5	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	88.6	88.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	81.6	95.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	81.7	81.6	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	85.5	87.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	87.0	94.9	P/P	60 - 160
Perfluorononanoic acid (PFNA)	112	112	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107870

Included Lab Sample IDs: 2274580, 2274594, 2274595, 2274596, 2274597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorononanoic acid (PFNA)	84.7	112	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	101	99.4	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	102	101	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	89.9	103	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	96.7	89.9	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	100	80.4	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	80.4	83.0	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	71.1	84.6	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	84.6	101	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	124	89.6	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	89.6	81.2	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	100	132	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	132	82.4	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	122	102	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	90.6	122	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	122	133	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	153	122	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A107920

Included Lab Sample IDs: 2274572, 2274573, 2274574, 2274575, 2274576, 2274577, 2274578, 2274579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	81.6	90.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	104	88.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	100	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	107	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	92.1	92.2	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	84.3	88.7	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	111	89.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.8	98.3	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	92.5	98.4	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	141	101	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	74.8	84.7	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	83.4	81.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	87.0	82.0	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	95.6	92.2	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	89.6	94.8	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	82.7	104	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	89.3	95.6	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	93.4	91.1	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	75.1	88.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	96.3	87.4	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	106	96.4	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	98.6	145	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	94.6	88.3	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	91.9	74.6	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.0	90.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	97.5	86.5	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	84.9	84.2	P/P	60 - 160
Perfluorononanoic acid (PFNA)	108	80.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A107920

Included Lab Sample IDs: 2274572, 2274573, 2274574, 2274575, 2274576, 2274577, 2274578, 2274579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorooctanesulfonic acid (PFOS)	93.8	91.7	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	91.0	91.0	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	90.4	91.9	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	88.6	118	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	126	97.5	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	115	102	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	87.7	111	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	122	114	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A108044

Included Lab Sample IDs: 2274570, 2274571, 2274593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.0	92.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.5	85.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.2	110	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	101	113	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	121	134	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	99.2	94.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	119	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	96.3	96.8	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	92.4	92.1	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	99.2	143	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	109	102	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	91.6	87.3	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	87.4	85.5	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	98.6	99.0	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	96.1	101	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	114	106	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	99.4	92.7	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.0	88.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	90.8	88.6	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	96.7	94.8	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	82.7	106	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	94.0	138	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	94.0	100	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	79.1	98.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.3	100	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	108	96.3	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	96.5	95.2	P/P	60 - 160
Perfluorononanoic acid (PFNA)	129	138	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	92.7	98.7	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	86.0	113	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	99.0	88.1	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	86.9	100	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	107	104	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	107	97.6	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	92.2	88.2	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	115	144	P/P	60 - 160

Quality Assurance Report Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
		LCS	MS	LCS	MS		
DEP SOP: LC-001-3	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	77.2		75.1	75.4		0.399
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	76.0		73.0	82.3		12.0
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.6		95.9	108		12.2
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	73.2		68.5	77.1		11.8
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	73.7		70.6	74.0		4.70
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	78.4		78.5	76.6		2.45
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	111	113			1.97	
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	76.5		59.4	59.2		0.337
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	91.1		108	94.9		12.5
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.9		95.2	107		12.0
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110		105	118		11.0
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.0		101	95.7		5.69
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	118		101	92.4		8.60
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	109		96.4	93.2		3.38
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	128		121	102		16.5
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.2	86.5			12.7	
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101		88.2	108		20.5
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.7		85.6	105		20.7
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	111		110	108		1.46
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	118		110	129		16.0
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	107		112	110		2.70
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	113		111	110		0.902
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	99.8		104	101		2.93
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115		125	101		21.0
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	120	122			0.826	
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	126		116	132		13.1
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	106		115	111		3.44
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	93.2		87.8	90.7		3.25
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	94.1		82.4	91.4		10.4
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.4		90.4	106		15.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
DEP SOP: LC-001-3	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	84.2		89.5	74.6		18.2
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	75.5		82.1	92.3		11.7
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	84.3		75.4	87.5		14.9
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	90.4			14.5	
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.4		105	116		10.4
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	80.7		77.1	90.8		16.3
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	149		136	125		9.04
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120		110	121		9.46
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	83.2		85.1	95.7		11.7
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	149		126	119		5.80
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	155		153	115		28.4
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158		118	136		13.8
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	110	145			27.5	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	128		152	141		7.46
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	111		110	119		7.16
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	89.7		86.9	91.2		4.83
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	86.5		84.2	96.2		13.3
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	95.5		105	98.4		6.11
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	86.3		83.9	88.1		4.88
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	86.0		96.0	85.7		11.3
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	80.3		78.8	84.9		7.45
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	109	107			2.22	
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	92.5		81.0	85.4		5.29
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	87.0		99.6	89.0		11.2
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.1		71.7	84.6		16.5
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	76.4		89.6	86.2		3.87
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	100		113	99.2		13.3
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	124		87.7	68.4		24.7
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	105		84.2	106		23.4
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.4		89.7	93.2		3.83

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.3	113			17.0		
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.9		127	111			13.4
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	100		110	118			6.82
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	94.5		96.8	92.6			4.44
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.6		85.8	97.7			13.0
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	106		100	88.3			12.8
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104		87.6	76.9			13.0
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	93.3		101	85.8			16.5
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	86.8		80.3	94.4			16.1
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	98.2	101			2.51		
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	98.7		107	108			1.02
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	91.8		89.9	94.7			5.20
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108		86.7	84.8			2.22
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	82.7		94.5	90.3			4.55
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108		114	92.9			20.0
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	82.8		102	104			1.36
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	98.6		91.0	91.6			0.657
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.7		100	107			6.54
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108	103			5.01		
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	95.0		99.1	104			4.92
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	71.6		92.6	93.2			0.646
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.6		70.6	60.8			14.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
DEP SOP: LC-001-3	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	46.3		66.0	66.7			1.06
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	113		113	106			6.95
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	56.9		58.7	47.9			20.3
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	54.4		69.4	53.1			26.6
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	63.4		49.2	47.3			3.94
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	106	102			3.36		
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	123		130	93.4			32.4
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	74.6		148	121			20.2
	Perfluoro-1-butane sulfonamide (FBSA)	79.8		74.0	75.8			2.40
	Perfluoro-1-butane sulfonamide (FBSA)	74.8		74.2	77.9			4.87
	Perfluoro-1-butane sulfonamide (FBSA)	95.5		92.6	96.0			3.61
	Perfluoro-1-butane sulfonamide (FBSA)	77.0		79.0	76.0			3.87
	Perfluoro-1-butane sulfonamide (FBSA)	78.2		78.4	74.1			5.64
	Perfluoro-1-butane sulfonamide (FBSA)	73.4		66.6	73.1			9.31
	Perfluoro-1-butane sulfonamide (FBSA)	102	99.5			2.87		
	Perfluoro-1-butane sulfonamide (FBSA)	120		92.8	89.5			3.35
	Perfluoro-1-butane sulfonamide (FBSA)	92.5		109	95.8			12.8
	Perfluoro-1-hexane sulfonamide (FHxSA)	79.0		79.9	79.0			1.13
	Perfluoro-1-hexane sulfonamide (FHxSA)	77.2		77.5	82.6			6.37
	Perfluoro-1-hexane sulfonamide (FHxSA)	94.6		99.8	97.2			2.64
	Perfluoro-1-hexane sulfonamide (FHxSA)	79.1		76.2	82.0			7.33
	Perfluoro-1-hexane sulfonamide (FHxSA)	76.3		76.9	70.9			8.12
	Perfluoro-1-hexane sulfonamide (FHxSA)	84.8		81.3	82.9			1.95
	Perfluoro-1-hexane sulfonamide (FHxSA)	95.1	91.9			3.42		
	Perfluoro-1-hexane sulfonamide (FHxSA)	116		95.3	97.1			1.87
	Perfluoro-1-hexane sulfonamide (FHxSA)	79.8		91.5	82.0			11.0
	Perfluoro-1-octane sulfonamide (FOSA)	102		94.0	97.6			3.76
	Perfluoro-1-octane sulfonamide (FOSA)	102		93.2	106			12.9
	Perfluoro-1-octane sulfonamide (FOSA)	98.8		92.9	100			7.86
	Perfluoro-1-octane sulfonamide (FOSA)	90.9		84.2	94.8			11.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	
							SMP	MS
DEP SOP: LC-001-3	Perfluoro-1-octane sulfonamide (FOSA)	97.9		89.7	87.1			2.94
	Perfluoro-1-octane sulfonamide (FOSA)	100		94.4	95.6			1.26
	Perfluoro-1-octane sulfonamide (FOSA)	102	93.3			9.10		
	Perfluoro-1-octane sulfonamide (FOSA)	91.1		99.3	91.8			7.85
	Perfluoro-1-octane sulfonamide (FOSA)	85.4		84.7	90.8			6.95
	Perfluoro-3-methoxypropanoic acid (PFMPA)	91.6		86.1	77.5			10.5
	Perfluoro-3-methoxypropanoic acid (PFMPA)	79.0		78.1	95.2			19.7
	Perfluoro-3-methoxypropanoic acid (PFMPA)	101		100	102			1.19
	Perfluoro-3-methoxypropanoic acid (PFMPA)	95.5		83.6	77.6			7.44
	Perfluoro-3-methoxypropanoic acid (PFMPA)	91.2		91.0	84.7			7.17
	Perfluoro-3-methoxypropanoic acid (PFMPA)	84.4		87.6	93.0			5.98
	Perfluoro-3-methoxypropanoic acid (PFMPA)	109	106			2.79		
	Perfluoro-3-methoxypropanoic acid (PFMPA)	103		116	118			1.28
	Perfluoro-3-methoxypropanoic acid (PFMPA)	92.2		111	94.9			15.5
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.0		78.8	74.6			5.48
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	77.0		80.1	81.1			1.24
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	95.8		86.2	94.9			9.61
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	77.5		70.0	72.0			2.82
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.7		71.1	74.1			4.13
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.3		72.9	74.2			1.77
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	116	105			9.32		
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	124		110	109			1.28
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	92.0		119	105			12.7
	Perfluoro-4-methoxybutanoic acid (PFMBA)	96.7		90.5	81.9			9.98
	Perfluoro-4-methoxybutanoic acid (PFMBA)	90.2		80.0	96.5			18.7
	Perfluoro-4-methoxybutanoic acid (PFMBA)	116		94.8	104			9.54
	Perfluoro-4-methoxybutanoic acid (PFMBA)	102		84.8	91.5			7.60
	Perfluoro-4-methoxybutanoic acid (PFMBA)	102		93.2	91.9			1.40
	Perfluoro-4-methoxybutanoic acid (PFMBA)	110		101	96.0			4.88
	Perfluoro-4-methoxybutanoic acid (PFMBA)	112	122			8.64		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
		LCS	MS	LCS	MS		
DEP SOP: LC-001-3	Perfluoro-4-methoxybutanoic acid (PFMBA)	109		152	142		7.01
	Perfluoro-4-methoxybutanoic acid (PFMBA)	99.4		128	111		13.6
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	87.2		80.1	85.0		5.94
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	81.8		74.0	83.3		11.8
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	98.4		98.8	94.7		4.24
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	81.5		83.2	77.6		6.97
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	75.1		71.8	77.2		7.25
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	81.7		93.7	79.2		16.8
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	112	105			6.46	
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	102		105	112		6.56
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	85.1		106	98.8		6.65
	Perfluorobutanesulfonic acid (PFBS)	95.2		94.3	96.0		1.79
	Perfluorobutanesulfonic acid (PFBS)	91.6		91.7	91.0		0.766
	Perfluorobutanesulfonic acid (PFBS)	94.7		97.4	103		5.20
	Perfluorobutanesulfonic acid (PFBS)	94.6		92.6	89.7		3.18
	Perfluorobutanesulfonic acid (PFBS)	95.3		86.2	87.7		1.73
	Perfluorobutanesulfonic acid (PFBS)	94.7		95.1	88.4		7.30
	Perfluorobutanesulfonic acid (PFBS)	105	102			2.91	
	Perfluorobutanesulfonic acid (PFBS)	102		111	121		6.32
	Perfluorobutanesulfonic acid (PFBS)	89.2		98.2	97.4		0.818
	Perfluorobutanoic acid (PFBA)	90.9		98.1	97.5		0.613
	Perfluorobutanoic acid (PFBA)	90.7		86.5	98.0		12.5
	Perfluorobutanoic acid (PFBA)	94.3		95.9	95.0		0.943
	Perfluorobutanoic acid (PFBA)	93.9		93.0	95.8		2.97
	Perfluorobutanoic acid (PFBA)	93.0		98.0	93.7		4.49
	Perfluorobutanoic acid (PFBA)	99.3		97.8	99.4		1.62
	Perfluorobutanoic acid (PFBA)	94.6	98.1			3.63	
	Perfluorobutanoic acid (PFBA)	97.9		100	100		0.153
	Perfluorobutanoic acid (PFBA)	80.8		82.9	88.6		6.65
	Perfluorodecanesulfonic acid (PFDS)	81.8		88.3	93.3		5.51
	Perfluorodecanesulfonic acid (PFDS)	80.3		81.7	87.0		6.28
	Perfluorodecanesulfonic acid (PFDS)	100		95.0	98.0		3.11
	Perfluorodecanesulfonic acid (PFDS)	81.5		79.0	87.6		10.3
Perfluorodecanesulfonic acid (PFDS)	78.1		83.4	81.8		1.94	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	
							SMP	MS
DEP SOP: LC-001-3	Perfluorodecanesulfonic acid (PFDS)	90.1		83.3	87.8			5.26
	Perfluorodecanesulfonic acid (PFDS)	110	104			5.77		
	Perfluorodecanesulfonic acid (PFDS)	83.0		68.0	74.8			9.52
	Perfluorodecanesulfonic acid (PFDS)	85.5		99.2	106			6.82
	Perfluorodecanoic acid (PFDA)	155		69.7	112			23.2
	Perfluorodecanoic acid (PFDA)	88.4		104	84.9			19.9
	Perfluorodecanoic acid (PFDA)	122		104	118			13.0
	Perfluorodecanoic acid (PFDA)	80.1		107	83.5			24.9
	Perfluorodecanoic acid (PFDA)	87.7		98.9	91.8			7.45
	Perfluorodecanoic acid (PFDA)	76.2		81.8	109			28.9
	Perfluorodecanoic acid (PFDA)	88.7	115			25.7		
	Perfluorodecanoic acid (PFDA)	157		107	130			19.2
	Perfluorodecanoic acid (PFDA)	118		91.1	100			9.41
	Perfluorododecanoic acid (PFDoA)	108		111	97.1			11.4
	Perfluorododecanoic acid (PFDoA)	118		110	112			2.07
	Perfluorododecanoic acid (PFDoA)	79.0		129	98.5			26.8
	Perfluorododecanoic acid (PFDoA)	99.5		72.9	78.3			7.14
	Perfluorododecanoic acid (PFDoA)	88.4		97.7	115			16.6
	Perfluorododecanoic acid (PFDoA)	117		69.9	92.9			28.3
	Perfluorododecanoic acid (PFDoA)	99.4	105			5.67		
	Perfluorododecanoic acid (PFDoA)	115		152	97.4			43.9
	Perfluorododecanoic acid (PFDoA)	120		123	140			12.9
	Perfluoroheptanesulfonic acid (PFHpS)	83.5		85.9	77.7			10.0
	Perfluoroheptanesulfonic acid (PFHpS)	76.6		80.3	80.3			0.0
	Perfluoroheptanesulfonic acid (PFHpS)	93.9		96.8	88.1			9.41
	Perfluoroheptanesulfonic acid (PFHpS)	80.8		69.4	76.9			10.3
	Perfluoroheptanesulfonic acid (PFHpS)	74.3		75.5	70.4			6.99
	Perfluoroheptanesulfonic acid (PFHpS)	78.1		72.6	77.8			6.91
	Perfluoroheptanesulfonic acid (PFHpS)	120	105			13.7		
	Perfluoroheptanesulfonic acid (PFHpS)	116		104	101			3.06
	Perfluoroheptanesulfonic acid (PFHpS)	89.4		99.3	108			8.67
	Perfluoroheptanoic acid (PFHpA)	93.4		103	125			16.3
	Perfluoroheptanoic acid (PFHpA)	89.2		102	90.3			12.4
	Perfluoroheptanoic acid (PFHpA)	105		99.2	104			4.82
	Perfluoroheptanoic acid (PFHpA)	87.2		81.5	93.1			13.3
	Perfluoroheptanoic acid (PFHpA)	85.9		89.6	73.4			19.9
	Perfluoroheptanoic acid (PFHpA)	97.7		73.2	93.5			24.4
	Perfluoroheptanoic acid (PFHpA)	98.4	113			13.5		
	Perfluoroheptanoic acid (PFHpA)	80.6		105	77.7			23.2
	Perfluoroheptanoic acid (PFHpA)	82.8		76.8	93.1			19.2
	Perfluorohexanesulfonic acid (PFHxS)	105		91.7	89.1			2.67
	Perfluorohexanesulfonic acid (PFHxS)	94.0		92.6	91.0			1.74

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
DEP SOP: LC-001-3	Perfluorohexanesulfonic acid (PFHxS)	98.5		101	88.6		12.7
	Perfluorohexanesulfonic acid (PFHxS)	94.9			88.8 90.7		2.12
	Perfluorohexanesulfonic acid (PFHxS)	83.7			94.3 88.3		6.57
	Perfluorohexanesulfonic acid (PFHxS)	88.1			89.9 84.3		6.43
	Perfluorohexanesulfonic acid (PFHxS)	119	101			16.4	
	Perfluorohexanesulfonic acid (PFHxS)	112			78.0 106		10.4
	Perfluorohexanesulfonic acid (PFHxS)	92.1			100 107		6.08
	Perfluorohexanoic acid (PFHxA)	103			76.9 85.9		8.46
	Perfluorohexanoic acid (PFHxA)	104			75.1 83.2		10.2
	Perfluorohexanoic acid (PFHxA)	88.2			100 82.9		19.2
	Perfluorohexanoic acid (PFHxA)	95.6			110 98.1		11.7
	Perfluorohexanoic acid (PFHxA)	91.8			115 97.9		15.9
	Perfluorohexanoic acid (PFHxA)	90.2			92.4 109		16.1
	Perfluorohexanoic acid (PFHxA)	104	101			2.74	
	Perfluorohexanoic acid (PFHxA)	79.8			118 130		6.28
	Perfluorohexanoic acid (PFHxA)	83.4			81.2 108		28.6
	Perfluorononanesulfonic acid (PFNS)	97.2			97.0 99.1		2.14
	Perfluorononanesulfonic acid (PFNS)	93.2			96.5 100		3.66
	Perfluorononanesulfonic acid (PFNS)	97.9			102 106		4.23
	Perfluorononanesulfonic acid (PFNS)	87.4			88.1 104		16.2
	Perfluorononanesulfonic acid (PFNS)	96.2			100 99.5		0.701
	Perfluorononanesulfonic acid (PFNS)	98.2			104 89.6		14.9
	Perfluorononanesulfonic acid (PFNS)	110	102			7.75	
	Perfluorononanesulfonic acid (PFNS)	80.8			84.8 85.1		0.353
	Perfluorononanesulfonic acid (PFNS)	81.6			91.2 105		14.2
	Perfluorononanoic acid (PFNA)	94.9			111 120		6.41
	Perfluorononanoic acid (PFNA)	80.5			117 95.8		19.7
	Perfluorononanoic acid (PFNA)	94.0			110 131		17.8
	Perfluorononanoic acid (PFNA)	115			113 90.3		22.3
	Perfluorononanoic acid (PFNA)	112			79.8 77.6		2.80
	Perfluorononanoic acid (PFNA)	126			75.9 122		46.7
	Perfluorononanoic acid (PFNA)	108	143			28.3	
	Perfluorononanoic acid (PFNA)	108			136 129		5.19
	Perfluorononanoic acid (PFNA)	144			131 120		9.32
	Perfluorooctanesulfonic acid (PFOS)	95.3			79.5 82.0		1.24
	Perfluorooctanesulfonic acid (PFOS)	92.9			99.4 103		3.36
	Perfluorooctanesulfonic acid (PFOS)	96.1			94.9 92.9		1.87
	Perfluorooctanesulfonic acid (PFOS)	87.0			81.4 94.4		10.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
DEP SOP: LC-001-3	Perfluorooctanesulfonic acid (PFOS)	84.7		92.7	90.5		2.40
	Perfluorooctanesulfonic acid (PFOS)	93.7		84.4	84.2		0.191
	Perfluorooctanesulfonic acid (PFOS)	116	113			2.10	
	Perfluorooctanesulfonic acid (PFOS)	99.4					2.48
	Perfluorooctanesulfonic acid (PFOS)	89.4		103	105		2.59
	Perfluorooctanoic acid (PFOA)	94.8		51.1	52.5		1.82
	Perfluorooctanoic acid (PFOA)	75.6		57.1	53.1		7.26
	Perfluorooctanoic acid (PFOA)	105		99.1	101		1.70
	Perfluorooctanoic acid (PFOA)	112		75.8	85.8		12.4
	Perfluorooctanoic acid (PFOA)	82.4		81.4	78.7		3.37
	Perfluorooctanoic acid (PFOA)	78.6		80.7	90.2		11.1
	Perfluorooctanoic acid (PFOA)	113	84.3			29.0	
	Perfluorooctanoic acid (PFOA)	70.2		83.4	60.3		10.8
	Perfluorooctanoic acid (PFOA)	85.4		91.4	121		28.0
	Perfluoropentanesulfonic acid (PFPeS)	91.2		92.6	93.7		1.18
	Perfluoropentanesulfonic acid (PFPeS)	87.4		91.1	91.1		0.0
	Perfluoropentanesulfonic acid (PFPeS)	91.8		92.2	93.3		1.19
	Perfluoropentanesulfonic acid (PFPeS)	87.2		86.7	84.0		3.16
	Perfluoropentanesulfonic acid (PFPeS)	86.0		78.1	79.4		1.65
	Perfluoropentanesulfonic acid (PFPeS)	105		116	100		14.0
	Perfluoropentanesulfonic acid (PFPeS)	107	106			0.562	
	Perfluoropentanesulfonic acid (PFPeS)	97.5		95.9	119		18.2
	Perfluoropentanesulfonic acid (PFPeS)	82.5		90.0	95.7		6.14
	Perfluoropentanoic acid (PFPeA)	102		84.2	110		18.5
	Perfluoropentanoic acid (PFPeA)	107		89.6	104		14.6
	Perfluoropentanoic acid (PFPeA)	88.2		109	103		5.85
	Perfluoropentanoic acid (PFPeA)	114		86.7	97.4		11.6
	Perfluoropentanoic acid (PFPeA)	86.9		85.6	89.2		4.12
	Perfluoropentanoic acid (PFPeA)	93.6		117	98.7		16.6
	Perfluoropentanoic acid (PFPeA)	109	104			4.23	
	Perfluoropentanoic acid (PFPeA)	102		104	107		1.62
	Perfluoropentanoic acid (PFPeA)	96.1		100	111		10.2
	Perfluoropropanesulfonic acid (PFPrS)	100		84.1	98.6		15.9
	Perfluoropropanesulfonic acid (PFPrS)	91.7		82.0	86.4		5.23
	Perfluoropropanesulfonic acid (PFPrS)	108		95.0	90.9		4.41
	Perfluoropropanesulfonic acid (PFPrS)	103		98.3	106		7.07
	Perfluoropropanesulfonic acid (PFPrS)	93.3		85.5	92.7		8.08
	Perfluoropropanesulfonic acid (PFPrS)	92.2		103	104		1.06

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	
							SMP	MS
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	101	86.8			15.1		
	Perfluoropropanesulfonic acid (PFPrS)	90.3		115	125			8.49
	Perfluoropropanesulfonic acid (PFPrS)	89.8		103	92.6			10.6
	Perfluorotetradecanoic acid (PFTeA)	113		131	123			6.28
	Perfluorotetradecanoic acid (PFTeA)	87.2		102	83.6			20.1
	Perfluorotetradecanoic acid (PFTeA)	101		113	102			10.1
	Perfluorotetradecanoic acid (PFTeA)	81.7		116	97.6			17.0
	Perfluorotetradecanoic acid (PFTeA)	98.4		96.2	73.2			27.2
	Perfluorotetradecanoic acid (PFTeA)	112		110	132			18.7
	Perfluorotetradecanoic acid (PFTeA)	113	114			1.50		
	Perfluorotetradecanoic acid (PFTeA)	131		94.8	100			5.64
	Perfluorotetradecanoic acid (PFTeA)	95.2		96.0	108			12.2
	Perfluorotridecanoic acid (PFTriA)	143		134	126			5.38
	Perfluorotridecanoic acid (PFTriA)	143		111	104			5.86
	Perfluorotridecanoic acid (PFTriA)	133		148	130			13.1
	Perfluorotridecanoic acid (PFTriA)	117		104	119			14.2
	Perfluorotridecanoic acid (PFTriA)	138		112	132			16.2
	Perfluorotridecanoic acid (PFTriA)	102		153	135			12.0
	Perfluorotridecanoic acid (PFTriA)	117	118			1.28		
	Perfluorotridecanoic acid (PFTriA)	111		104	109			5.08
	Perfluorotridecanoic acid (PFTriA)	99.3		82.5	83.3			0.965
	Perfluoroundecanoic acid (PFUnA)	111		68.6	87.7			13.9
	Perfluoroundecanoic acid (PFUnA)	112		129	140			7.73
	Perfluoroundecanoic acid (PFUnA)	158		92.4	98.5			6.39
	Perfluoroundecanoic acid (PFUnA)	104		56.0	75.6			23.6
	Perfluoroundecanoic acid (PFUnA)	74.2		100	71.4			33.7
	Perfluoroundecanoic acid (PFUnA)	83.8		77.7	88.1			12.5
	Perfluoroundecanoic acid (PFUnA)	115	129			11.5		
	Perfluoroundecanoic acid (PFUnA)	126		127	137			7.58
	Perfluoroundecanoic acid (PFUnA)	124		118	148			22.4

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
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Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in sediment/solid matrices by HPLC/MS/MS	2274105, 2274106, 2274107, 2274108, 2274109, 2274110, 2274111, 2274112, 2274113, 2274114, 2274115, 2274116, 2274129, 2274130, 2274131, 2274132, 2274133, 2274134, 2274135, 2274136, 2274137, 2274138, 2274139, 2274140, 2274164, 2274165, 2274166, 2274167, 2274168, 2274169, 2274170, 2274171, 2274172, 2274173, 2274174, 2274175, 2274191, 2274192, 2274193, 2274194, 2274195, 2274196, 2274197, 2274198, 2274199, 2274200, 2274201, 2274202, 2274291, 2274292, 2274293, 2274294, 2274295, 2274296, 2274297, 2274298, 2274299, 2274300, 2274301, 2274302, 2274342, 2274343, 2274344, 2274345, 2274346, 2274347, 2274348, 2274349, 2274350, 2274351, 2274352, 2274353, 2274371, 2274372, 2274373, 2274374, 2274375, 2274376, 2274377, 2274378, 2274379, 2274380, 2274381, 2274382, 2274399, 2274400, 2274401, 2274402, 2274403, 2274404, 2274405, 2274406, 2274407, 2274408, 2274409, 2274521, 2274522, 2274523, 2274524, 2274525, 2274526, 2274527, 2274528, 2274529, 2274530, 2274531, 2274532, 2274545, 2274546, 2274547, 2274548, 2274549, 2274550, 2274551, 2274552, 2274553, 2274554, 2274555, 2274556, 2274569, 2274570, 2274571, 2274593
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2274572, 2274573, 2274574, 2274575, 2274576, 2274577, 2274578, 2274579, 2274580, 2274594, 2274595, 2274596, 2274597
SM 2540 G (20th)	Percent solid determination before the other sample preparations.	2274117, 2274118, 2274119, 2274120, 2274121, 2274122, 2274123, 2274124, 2274125, 2274126, 2274127, 2274128, 2274141, 2274142, 2274143, 2274144, 2274145, 2274146, 2274147, 2274148, 2274149, 2274150, 2274151, 2274152, 2274176, 2274177, 2274178, 2274179, 2274180, 2274181, 2274182, 2274183, 2274184, 2274185, 2274186, 2274187, 2274203, 2274204, 2274205, 2274206, 2274207, 2274208, 2274209, 2274210, 2274211, 2274212, 2274213, 2274214, 2274303, 2274304, 2274305, 2274306, 2274307, 2274308, 2274309, 2274310, 2274311, 2274312, 2274313, 2274314, 2274356, 2274357, 2274358, 2274359, 2274360, 2274361, 2274362, 2274363, 2274364, 2274365, 2274366, 2274367, 2274383, 2274384, 2274385, 2274386, 2274387, 2274388, 2274389, 2274390, 2274391, 2274392, 2274393, 2274394, 2274410, 2274411, 2274412, 2274413, 2274414, 2274415, 2274416, 2274417, 2274418, 2274419, 2274420, 2274533, 2274534, 2274535, 2274536, 2274537, 2274538, 2274539, 2274540, 2274541, 2274542, 2274543, 2274544, 2274557, 2274558, 2274559, 2274560, 2274561, 2274562, 2274563, 2274564, 2274565, 2274566, 2274567, 2274568, 2274581, 2274591, 2274592, 2274598

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 11:22	Mohammad Ghaffari	2274109
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 11:32	Mohammad Ghaffari	2274105
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 12:26	Mohammad Ghaffari	2274106
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 12:37	Mohammad Ghaffari	2274107
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 12:48	Mohammad Ghaffari	2274108
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 13:11	Mohammad Ghaffari	2274110
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 13:22	Mohammad Ghaffari	2274111
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 13:54	Mohammad Ghaffari	2274112
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 14:05	Mohammad Ghaffari	2274113
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 14:16	Mohammad Ghaffari	2274114
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 14:27	Mohammad Ghaffari	2274115
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 14:37	Mohammad Ghaffari	2274116
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 14:48	Mohammad Ghaffari	2274129
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 14:59	Mohammad Ghaffari	2274130
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 15:10	Mohammad Ghaffari	2274131
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 15:31	Mohammad Ghaffari	2274132
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 15:42	Mohammad Ghaffari	2274133
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 15:53	Mohammad Ghaffari	2274134
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 16:04	Mohammad Ghaffari	2274135
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/10/2021 16:15	Mohammad Ghaffari	2274136
	09/08/2021	09/09/2021 10:00	Hoor Shaik	09/11/2021 15:15	Mohammad Ghaffari	2274132
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 13:43	Mohammad Ghaffari	2274137
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 16:25	Mohammad Ghaffari	2274138
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 16:36	Mohammad Ghaffari	2274139
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 16:47	Mohammad Ghaffari	2274140
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 17:09	Mohammad Ghaffari	2274164
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 17:19	Mohammad Ghaffari	2274165
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 17:30	Mohammad Ghaffari	2274166
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 17:41	Mohammad Ghaffari	2274167
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 17:52	Mohammad Ghaffari	2274168
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 18:02	Mohammad Ghaffari	2274169
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 18:13	Mohammad Ghaffari	2274170
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 18:24	Mohammad Ghaffari	2274171
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 18:46	Mohammad Ghaffari	2274172
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 18:56	Mohammad Ghaffari	2274173
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 19:07	Mohammad Ghaffari	2274174
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 19:18	Mohammad Ghaffari	2274175
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 19:29	Mohammad Ghaffari	2274191
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 19:40	Mohammad Ghaffari	2274192
	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 19:50	Mohammad Ghaffari	2274193

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	09/08/2021	09/09/2021 11:00	Hoor Shaik	09/10/2021 20:01	Mohammad Ghaffari	2274194
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 14:42	Mohammad Ghaffari	2274195
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 15:36	Mohammad Ghaffari	2274196
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 15:47	Mohammad Ghaffari	2274197
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 15:57	Mohammad Ghaffari	2274198
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 16:08	Mohammad Ghaffari	2274199
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 16:19	Mohammad Ghaffari	2274200
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 16:30	Mohammad Ghaffari	2274201
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 16:41	Mohammad Ghaffari	2274202
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 17:02	Mohammad Ghaffari	2274291
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 17:13	Mohammad Ghaffari	2274292
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 17:24	Mohammad Ghaffari	2274293
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 17:35	Mohammad Ghaffari	2274294
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 17:45	Mohammad Ghaffari	2274295
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 17:56	Mohammad Ghaffari	2274296
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 18:07	Mohammad Ghaffari	2274297
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 18:18	Mohammad Ghaffari	2274298
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	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 18:50	Mohammad Ghaffari	2274300
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 19:01	Mohammad Ghaffari	2274301
	09/08/2021	09/13/2021 11:00	Hoor Shaik	09/14/2021 19:11	Mohammad Ghaffari	2274302
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 15:14	Mohammad Ghaffari	2274343
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 19:22	Mohammad Ghaffari	2274342
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 19:33	Mohammad Ghaffari	2274344
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 19:44	Mohammad Ghaffari	2274345
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 19:55	Mohammad Ghaffari	2274346
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 20:16	Mohammad Ghaffari	2274347
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 20:27	Mohammad Ghaffari	2274348
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 20:38	Mohammad Ghaffari	2274349
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 20:48	Mohammad Ghaffari	2274350
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 20:59	Mohammad Ghaffari	2274351
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 21:10	Mohammad Ghaffari	2274352
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 21:21	Mohammad Ghaffari	2274353
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 21:42	Mohammad Ghaffari	2274371
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 21:53	Mohammad Ghaffari	2274372
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 22:04	Mohammad Ghaffari	2274373
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 22:15	Mohammad Ghaffari	2274374
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 22:26	Mohammad Ghaffari	2274375
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 22:36	Mohammad Ghaffari	2274376
	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 22:47	Mohammad Ghaffari	2274377

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	09/08/2021	09/13/2021 11:00	Manjita Shrestha	09/14/2021 22:58	Mohammad Ghaffari	2274378
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 10:30	Mohammad Ghaffari	2274525
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 10:41	Mohammad Ghaffari	2274379
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 10:51	Mohammad Ghaffari	2274380
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 11:02	Mohammad Ghaffari	2274381
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 11:24	Mohammad Ghaffari	2274382
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 11:35	Mohammad Ghaffari	2274399
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 11:45	Mohammad Ghaffari	2274400
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 11:56	Mohammad Ghaffari	2274401
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 12:07	Mohammad Ghaffari	2274402
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 12:18	Mohammad Ghaffari	2274403
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 12:29	Mohammad Ghaffari	2274404
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 12:39	Mohammad Ghaffari	2274405
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 13:01	Mohammad Ghaffari	2274406
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 13:12	Mohammad Ghaffari	2274407
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 13:23	Mohammad Ghaffari	2274408
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 13:33	Mohammad Ghaffari	2274409
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	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 13:55	Mohammad Ghaffari	2274522
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 14:06	Mohammad Ghaffari	2274523
	09/08/2021	09/14/2021 14:00	Hoor Shaik	09/16/2021 14:16	Mohammad Ghaffari	2274524
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 17:41	Mohammad Ghaffari	2274526
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 17:52	Mohammad Ghaffari	2274527
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 18:03	Mohammad Ghaffari	2274528
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 18:14	Mohammad Ghaffari	2274529
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 18:35	Mohammad Ghaffari	2274530
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 18:46	Mohammad Ghaffari	2274531
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 18:57	Mohammad Ghaffari	2274532
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 19:08	Mohammad Ghaffari	2274545
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 19:19	Mohammad Ghaffari	2274546
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 19:29	Mohammad Ghaffari	2274547
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 19:40	Mohammad Ghaffari	2274548
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 19:51	Mohammad Ghaffari	2274549
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 20:12	Mohammad Ghaffari	2274550
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 20:23	Mohammad Ghaffari	2274551
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 20:34	Mohammad Ghaffari	2274552
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 20:45	Mohammad Ghaffari	2274553
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 20:56	Mohammad Ghaffari	2274554
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 21:07	Mohammad Ghaffari	2274555
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 21:17	Mohammad Ghaffari	2274556

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/16/2021 21:28	Mohammad Ghaffari	2274569
	09/08/2021	09/15/2021 09:00	Hoor Shaik	09/17/2021 09:07	Mohammad Ghaffari	2274569
	09/08/2021	09/17/2021 09:00	Hoor Shaik	09/19/2021 13:56	Mohammad Ghaffari	2274596
	09/08/2021	09/17/2021 09:00	Hoor Shaik	09/19/2021 14:07	Mohammad Ghaffari	2274597
	09/08/2021	09/17/2021 09:00	Hoor Shaik	09/19/2021 14:18	Mohammad Ghaffari	2274580
	09/08/2021	09/17/2021 09:00	Hoor Shaik	09/19/2021 14:39	Mohammad Ghaffari	2274594
	09/08/2021	09/17/2021 09:00	Hoor Shaik	09/19/2021 14:50	Mohammad Ghaffari	2274595
	09/08/2021	09/19/2021 14:00	Rasheda Ghaffari	09/21/2021 08:24	Mohammad Ghaffari	2274572
	09/08/2021	09/19/2021 14:00	Rasheda Ghaffari	09/21/2021 08:35	Mohammad Ghaffari	2274573
	09/08/2021	09/19/2021 14:00	Rasheda Ghaffari	09/21/2021 08:45	Mohammad Ghaffari	2274574
	09/08/2021	09/19/2021 14:00	Rasheda Ghaffari	09/21/2021 08:56	Mohammad Ghaffari	2274575
	09/08/2021	09/19/2021 14:00	Rasheda Ghaffari	09/21/2021 09:07	Mohammad Ghaffari	2274576
	09/08/2021	09/19/2021 14:00	Rasheda Ghaffari	09/21/2021 09:18	Mohammad Ghaffari	2274577
	09/08/2021	09/19/2021 14:00	Rasheda Ghaffari	09/21/2021 09:28	Mohammad Ghaffari	2274578
	09/08/2021	09/19/2021 14:00	Rasheda Ghaffari	09/21/2021 09:39	Mohammad Ghaffari	2274579
	09/08/2021	09/27/2021 10:00	Manjita Shrestha	09/28/2021 11:40	Mohammad Ghaffari	2274570
	09/08/2021	09/27/2021 10:00	Manjita Shrestha	09/28/2021 11:51	Mohammad Ghaffari	2274571
	09/08/2021	09/27/2021 10:00	Manjita Shrestha	09/28/2021 12:02	Mohammad Ghaffari	2274593

Chemical Analysis Report

SIS-2021-10-19-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

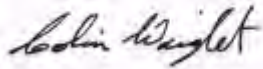
Event Description: **Miami Dade College Fire Training Facility**
Request ID: **RQ-2021-08-16-13**
Customer: **SIS**
Project ID: **SIS-PFAS**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: Jeff Newton

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 03-NOV-2021 08:36



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 09:35

Field ID: VP-1-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284633	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.45	I	ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	2.4	I	ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	4.1	I	ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	3.0	I	ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-1-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284633	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 10:35

Field ID: VP-1-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284634	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.8		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	25		ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	6.0	I	ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	12		ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	5.1	I	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	8.5		ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	6.2	I	ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	31		ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-1-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284634	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 11:25

Field ID: VP-1-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284635	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.80	I	ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	4.3	I	ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	2.4	I	ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	2.1	I	ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	5.1	I	ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	3.8	I	ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-1-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284635	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 12:15

Field ID: VP-1-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284636	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	7.3		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	6.6	I	ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	3.6	I	ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	5.2		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	3.4	I	ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	4.2	I	ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	37		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	5.9	I	ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.1	I	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	0.93	I	ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.8		ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.9		ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-1-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284636	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 14:35

Field ID: SB-4R-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284600	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.24	I	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.48	I	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	3.1		ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.72	I	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	30		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.63	I	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.77	I	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.34	I	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.30	I	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.0		ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-4R-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284600	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	0.85	U	ug/Kg	P405365	
2284677	SM 2540 G (20th)	% Solid	96.5	A	%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 14:45

Field ID: SB-2R-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284601	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.16	I	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	0.57	I	ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.16	I	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	1.1		ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-2R-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284601	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P405365	
2284678	SM 2540 G (20th)	% Solid	96.9		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 15:10

Field ID: VP-2-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284637	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	17		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	190		ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	60		ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	4.8	I	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	400		ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	500		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	530		ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	86		ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	270		ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	3.7E+03		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	560		ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	28		ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	29		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	69		ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	8.8		ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.96	I	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	27		ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	970		ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	54		ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.3E+03		ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	920		ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-2-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284637	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 15:45

Field ID: VP-2-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284638	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	5.0		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	53		ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	30		ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	11		ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	67		ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	42		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	130		ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	17		ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	29		ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	140		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	190		ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	28		ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	5.3		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.3	I	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.61	I	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	1.4	I	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.6		ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	33		ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	11		ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	190		ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	140		ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-2-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284638	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 16:20

Field ID: VP-2-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284639	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	5.8		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	87		ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	46		ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	8.8		ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	110		ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	89		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	230		ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	26		ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	58		ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	470		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	280		ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	25		ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	6.4		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	6.0		ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.85	I	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	1.5	I	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	6.8		ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	99		ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	16		ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	230		ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	300		ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-2-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284639	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 17:00

Field ID: VP-2-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284640	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	13		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	26		ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	20		ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	71		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	58		ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	10		ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	170		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	91		ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	11		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.2	I	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	17		ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	18		ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.69	I	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	4.8	I	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	180		ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	37		ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-2-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284640	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/12/2021 17:05

Field ID: DUP-VP-2-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284641	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	12		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	25		ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	21		ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	64		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	55		ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	11		ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	150		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	81		ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	9.6		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.3	I	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	16		ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	16		ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.66	I	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	5.2	I	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	170		ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	31		ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: DUP-VP-2-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284641	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 08:10

Field ID: SB-48-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284602	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.14	I	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.79	I	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	I	ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.28	I	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	I	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P405365	

Field ID: SB-48-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284602	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P405365	
2284684	SM 2540 G (20th)	% Solid	96.1		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 08:15

Field ID: SB-48-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284603	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.23	I	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.39	I	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	3.7		ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	1.4		ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	2.0		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.31	I	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.74		ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-48-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284603	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P405365	
2284685	SM 2540 G (20th)	% Solid	97.1		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 08:18

Field ID: SB-48-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284604	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	I	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.69	I	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	7.8		ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.69	I	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	5.7		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.32	I	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.85		ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.18	I	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-48-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284604	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P405365	
2284686	SM 2540 G (20th)	% Solid	98.2		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 09:00

Field ID: EQB-Screenpoint 1

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284655	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: EQB-Screenpoint 1

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284655	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 10:03

Field ID: SB-49-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284605	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.55	I	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	4.6		ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.25	I	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	1.4		ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.15	I	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	2.0		ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	2.1		ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	8.9		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	1.8		ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	3.0		ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.20	I	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	I	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	15		ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.37	I	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-49-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284605	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P405365	
2284688	SM 2540 G (20th)	% Solid	95.0		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 10:05

Field ID: SB-49-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284606	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.69	I	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.71	I	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.78	I	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	I	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	1.9		ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.83		ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	7.6		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	3.8		ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	38		ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P405365	

Field ID: SB-49-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284606	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P405365	
2284689	SM 2540 G (20th)	% Solid	96.2		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 10:10

Field ID: SB-49-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284607	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.58	I	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.77	I	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.64	I	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	4.3		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.29	I	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	1.3		ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	22		ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-49-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284607	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P405365	
2284690	SM 2540 G (20th)	% Solid	97.3		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 10:25

Field ID: FRB_DEPMW-4S

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284657	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: FRB_DEPMW-4S

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284657	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 12:35

Field ID: VP-3-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284642	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.9		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	6.3	I	ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	3.7	I	ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	52		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	2.5	I	ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	3.6	I	ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	12		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	3.9	I	ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	5.0		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-3-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284642	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 13:25

Field ID: VP-3-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284643	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.6		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	3.7	I	ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	19		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	2.1	I	ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	3.6	I	ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	7.7	I	ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	2.3	I	ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	2.6		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-3-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284643	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 14:30

Field ID: VP-3-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284644	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	7.8		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	9.4	I	ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	2.5	I	ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	30		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	11		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	4.4		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-3-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284644	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 15:25

Field ID: VP-3-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284645	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	16		ng/L	P405506	
		Perfluorobutanoic acid (PFBA)**	9.5	I	ng/L	P405506	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405506	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405506	
		Perfluoroheptanoic acid (PFHpA)**	7.2	I	ng/L	P405506	
		Perfluorohexanesulfonic acid (PFHxS)**	91		ng/L	P405506	
		Perfluorohexanoic acid (PFHxA)**	11		ng/L	P405506	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405506	
		Perfluorooctanoic acid (PFOA)**	7.7	I	ng/L	P405506	
		Perfluorooctanesulfonic acid (PFOS)**	200		ng/L	P405506	
		Perfluoropentanoic acid (PFPeA)**	9.4		ng/L	P405506	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405506	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405506	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405506	
		Perfluoropentanesulfonic acid (PFPeS)**	6.3		ng/L	P405506	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.3		ng/L	P405506	
		Perfluorononanesulfonic acid (PFNS)**	1.8		ng/L	P405506	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405506	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405506	
		Perfluoro-1-butane sulfonamide (FBSA)**	6.6		ng/L	P405506	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	65		ng/L	P405506	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.2	I	ng/L	P405506	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405506	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405506	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	I	ng/L	P405506	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405506	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405506	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405506	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405506	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405506	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405506	

Field ID: VP-3-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284645	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405506	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405506	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/13/2021 12:55

Field ID: FRB-VP-3

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284658	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: FRB-VP-3

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284658	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 08:15

Field ID: VP-4-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284646	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.5		ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	12	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	11		ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	19		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	21		ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	5.8	I	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	9.5		ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	630		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	30		ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	1.1	I	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.5	I	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.41	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.41	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.1	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P405507	

Field ID: VP-4-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284646	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.2	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 09:05

Field ID: VP-4-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284647	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.2	I	ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	6.3	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	7.6	I	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	15		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	13		ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	4.9	I	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	310		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	17		ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.80	I	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.59	I	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	4.5	I	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: VP-4-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284647	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 10:05

Field ID: VP-4-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284648	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.5	I	ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	8.2	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	8.2		ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	12		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	17		ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	5.6	I	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	160		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	23		ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.66	I	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: VP-4-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284648	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 10:40

Field ID: VP-4-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284649	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.7		ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	12	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	17		ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	53		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	27		ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	9.6		ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	190		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	36		ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	3.8		ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.9	I	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	2.6		ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	20		ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.78	I	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	72		ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	14		ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: VP-4-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284649	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 11:50

Field ID: EQB-Screenpoint 2

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284656	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: EQB-Screenpoint 2

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284656	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 13:10

Field ID: VP-5-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284650	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.6		ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	10	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	6.5	I	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	6.1		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	13		ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	10		ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	31		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	21		ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.62	I	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: VP-5-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284650	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 13:55

Field ID: VP-5-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284651	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.1		ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	9.1	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	4.9	I	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	5.0		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	9.4		ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	6.3	I	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	28		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	14		ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.46	I	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: VP-5-26-30

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284651	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 14:55

Field ID: VP-5-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284652	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	9.4		ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	8.0	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	4.5	I	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	6.1		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	7.5	I	ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	5.0	I	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	28		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	9.4		ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.99	I	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	6.6		ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.5	I	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: VP-5-36-40

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284652	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 15:40

Field ID: VP-5-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284653	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	16		ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	4.3	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	3.3	I	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	6.6		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	5.7	I	ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	3.1	I	ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	33		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	4.7	I	ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.72	I	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	13		ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.8		ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: VP-5-46-50

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284653	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/14/2021 13:13

Field ID: DUP-VP-5-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284654	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.6	I	ng/L	P405507	
		Perfluorobutanoic acid (PFBA)**	10	I	ng/L	P405507	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P405507	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P405507	
		Perfluoroheptanoic acid (PFHpA)**	7.0	I	ng/L	P405507	
		Perfluorohexanesulfonic acid (PFHxS)**	5.7		ng/L	P405507	
		Perfluorohexanoic acid (PFHxA)**	14		ng/L	P405507	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P405507	
		Perfluorooctanoic acid (PFOA)**	12		ng/L	P405507	
		Perfluorooctanesulfonic acid (PFOS)**	31		ng/L	P405507	
		Perfluoropentanoic acid (PFPeA)**	20		ng/L	P405507	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P405507	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P405507	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P405507	
		Perfluoropentanesulfonic acid (PFPeS)**	0.59	I	ng/L	P405507	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P405507	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P405507	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P405507	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.40	U	ng/L	P405507	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P405507	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P405507	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P405507	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P405507	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P405507	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P405507	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P405507	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P405507	MS
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P405507	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P405507	

Field ID: DUP-VP-5-16-20

Matrix: WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284654	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P405507	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P405507	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:55

Field ID: SB-1R-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284608	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	3.4		ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.45	I	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.37	I	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	1.1		ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	10		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.23	I	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.36	I	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.36	I	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.34	I	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.77		ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	11		ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-1R-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284608	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P405365	
2284707	SM 2540 G (20th)	% Solid	96.4		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:16

Field ID: SB-50-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284609	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.96	I	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	1.1		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.29	I	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-50-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284609	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P405365	
2284708	SM 2540 G (20th)	% Solid	95.4		%	P405369	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:18

Field ID: SB-50-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284610	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.29	I	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	0.93		ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P405365	

Field ID: SB-50-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284610	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	0.82	U	ug/Kg	P405365	
2284709	SM 2540 G (20th)	% Solid	97.7	A	%	P405370	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:20

Field ID: SB-50-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284611	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405365	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P405365	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P405365	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405365	
		Perfluoroheptanoic acid (PFHpA)**	0.31	I	ug/Kg	P405365	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P405365	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P405365	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P405365	
		Perfluorooctanesulfonic acid (PFOS)**	0.35	I	ug/Kg	P405365	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P405365	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405365	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405365	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P405365	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P405365	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405365	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405365	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405365	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405365	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405365	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405365	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P405365	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P405365	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405365	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405365	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P405365	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405365	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405365	

Field ID: SB-50-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284611	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405365	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P405365	
2284710	SM 2540 G (20th)	% Solid	97.2		%	P405370	

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:48

Field ID: SB-51-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284612	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.89		ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	1.8		ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	16		ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	2.0		ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	110		ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	2.7		ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	1.4		ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	0.94		ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.7		ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.21	I	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.9		ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	I	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.82		ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P405448	

Field ID: SB-51-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284612	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.36	I	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P405448	
2284711	SM 2540 G (20th)	% Solid	94.8		%	P405370	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:50

Field ID: SB-51-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284613	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.37	I	ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.37	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.37	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	1.3		ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	7.4		ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	1.6		ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	10		ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	0.60	I	ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	0.58	I	ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	1.3		ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.22	I	ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.093	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.093	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.093	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	I	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.72		ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.093	U	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	I	ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.093	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.093	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.37	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.19	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P405448	

Field ID: SB-51-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284613	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.74	U	ug/Kg	P405448	
2284712	SM 2540 G (20th)	% Solid	97.4		%	P405370	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:52

Field ID: SB-51-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284614	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.46		ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	1.1		ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	8.6		ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	1.6		ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	18		ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	1.1		ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	0.74	I	ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	1.0		ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.40	I	ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.19	I	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.77		ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	3.8	I	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.87		ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P405448	

Field ID: SB-51-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284614	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P405448	
2284713	SM 2540 G (20th)	% Solid	97.1		%	P405370	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:35

Field ID: SB-52-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284615	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	0.26	I	ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	0.22	I	ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	0.23	I	ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	1.8		ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	I	ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P405448	

Field ID: SB-52-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284615	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.81	U	ug/Kg	P405448	
2284714	SM 2540 G (20th)	% Solid	94.1		%	P405370	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:37

Field ID: SB-52-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284616	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.095	U	ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.38	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.38	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.19	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	0.19	U	ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	0.095	U	ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	0.19	U	ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.19	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	0.19	U	ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	0.19	U	ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.19	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.19	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.19	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	0.19	U	ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	0.095	U	ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.095	U	ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.095	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.095	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.095	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.095	U	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.095	U	ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.095	U	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.19	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.19	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.19	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.5	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.19	U	ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.095	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.095	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.38	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.19	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.19	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.19	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.19	U	ug/Kg	P405448	

Field ID: SB-52-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284616	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.19	U	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.76	U	ug/Kg	P405448	
2284715	SM 2540 G (20th)	% Solid	96.2		%	P405370	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:40

Field ID: SB-52-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284617	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	0.20	U	ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	0.20	U	ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P405448	

Field ID: SB-52-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284617	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.20	U	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P405448	
2284716	SM 2540 G (20th)	% Solid	95.6		%	P405370	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:25

Field ID: SB-53-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284618	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	0.54		ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	1.4		ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405448	

Field ID: SB-53-0.5

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284618	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P405448	
2284717	SM 2540 G (20th)	% Solid	95.3		%	P405370	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:28

Field ID: SB-53-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284619	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.34	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	0.25	I	ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	0.82		ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	1.0		ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	I	ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.086	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P405448	

Field ID: SB-53-2.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284619	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P405448	
2284718	SM 2540 G (20th)	% Solid	96.8		%	P405370	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Miami Dade College Fire Training;Eric_7421

Collection Date/Time: 10/15/2021 08:30

Field ID: SB-53-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284620	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.099	U	ug/Kg	P405448	
		Perfluorobutanoic acid (PFBA)**	0.40	U	ug/Kg	P405448	
		Perfluorodecanoic acid (PFDA)**	0.40	U	ug/Kg	P405448	
		Perfluorododecanoic acid (PFDoA)**	0.20	U	ug/Kg	P405448	
		Perfluoroheptanoic acid (PFHpA)**	0.30	I	ug/Kg	P405448	
		Perfluorohexanesulfonic acid (PFHxS)**	1.6		ug/Kg	P405448	
		Perfluorohexanoic acid (PFHxA)**	0.20	U	ug/Kg	P405448	
		Perfluorononanoic acid (PFNA)**	0.20	U	ug/Kg	P405448	
		Perfluorooctanesulfonic acid (PFOS)**	1.7		ug/Kg	P405448	
		Perfluorooctanoic acid (PFOA)**	0.20	U	ug/Kg	P405448	
		Perfluorotetradecanoic acid (PFTeA)**	0.20	U	ug/Kg	P405448	
		Perfluorotridecanoic acid (PFTriA)**	0.20	U	ug/Kg	P405448	
		Perfluoroundecanoic acid (PFUnA)**	0.20	U	ug/Kg	P405448	
		Perfluoropentanoic acid (PFPeA)**	0.20	U	ug/Kg	P405448	
		Perfluoropentanesulfonic acid (PFPeS)**	0.19	I	ug/Kg	P405448	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.099	U	ug/Kg	P405448	
		Perfluorononanesulfonic acid (PFNS)**	0.099	U	ug/Kg	P405448	
		Perfluorodecanesulfonic acid (PFDS)**	0.099	U	ug/Kg	P405448	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.099	U	ug/Kg	P405448	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.099	U	ug/Kg	P405448	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.099	U	ug/Kg	P405448	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.099	U	ug/Kg	P405448	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.20	U	ug/Kg	P405448	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.20	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P405448	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.20	U	ug/Kg	P405448	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.099	U	ug/Kg	P405448	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.099	U	ug/Kg	P405448	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.40	U	ug/Kg	P405448	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.20	U	ug/Kg	P405448	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.20	U	ug/Kg	P405448	

Field ID: SB-53-4.0

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2284620	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.31	I	ug/Kg	P405448	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.79	U	ug/Kg	P405448	
2284719	SM 2540 G (20th)	% Solid	96.6		%	P405374	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P405365

Component	Result	Code	Units
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3

Batch ID: P405448

Component	Result	Code	Units
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P405448

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3
Batch ID: P405506

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.40	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.40	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P405506

Component	Result	Code	Units
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3
Batch ID: P405507

Component	Result	Code	Units
11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.40	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.40	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P405507

Component	Result	Code	Units
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P405365

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	103		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	73.9		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	83.2		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	77.2		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	65.0		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	97.9		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	104		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.0		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	80.5		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	59.2		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	40.7		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	83.9		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	97.3		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	118		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	66.4		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	78.8		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	86.5		P	40 - 160
Perfluorobutanoic acid (PFBA)	61.6		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	113		P	40 - 160
Perfluorodecanoic acid (PFDA)	89.7		P	40 - 160
Perfluorododecanoic acid (PFDoA)	156		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	62.9		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	89.7		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	104		P	40 - 160
Perfluorohexanoic acid (PFHxA)	81.6		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	93.8		P	40 - 160
Perfluorononanoic acid (PFNA)	99.0		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	87.3		P	40 - 160
Perfluorooctanoic acid (PFOA)	87.4		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	74.0		P	40 - 160
Perfluoropentanoic acid (PFPeA)	96.2		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	115		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	94.0		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	69.9		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	73.7		P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P405448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.3		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	83.5		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	114		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	82.8		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	68.4		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	83.2		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	100		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	77.0		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	76.3		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	107		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	86.5		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P405448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	83.0		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	85.8		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	88.1		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	109		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	115		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	89.4		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	94.5		P	40 - 160
Perfluorobutanoic acid (PFBA)	69.6		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	88.8		P	40 - 160
Perfluorodecanoic acid (PFDA)	91.3		P	40 - 160
Perfluorododecanoic acid (PFDoA)	114		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	99.6		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	77.8		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	107		P	40 - 160
Perfluorohexanoic acid (PFHxA)	87.1		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	81.4		P	40 - 160
Perfluorononanoic acid (PFNA)	117		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	88.6		P	40 - 160
Perfluorooctanoic acid (PFOA)	80.2		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	84.7		P	40 - 160
Perfluoropentanoic acid (PFPeA)	89.5		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	87.9		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	83.7		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	73.9		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	115		P	40 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P405506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	66.1		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.4		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.6		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	68.9		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	71.9		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	80.3		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	101		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	88.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	79.0		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	98.0		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	111		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	103		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	84.8		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	80.9		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	94.7		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	133		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	96.4		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	100		P	30 - 160
Perfluorobutanoic acid (PFBA)	84.7		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	73.2		P	30 - 160
Perfluorodecanoic acid (PFDA)	108		P	30 - 160
Perfluorododecanoic acid (PFDoA)	111		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P405506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	95.1		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	66.2		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	99.1		P	30 - 160
Perfluorohexanoic acid (PFHxA)	89.9		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	75.6		P	30 - 160
Perfluorononanoic acid (PFNA)	126		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	93.0		P	30 - 160
Perfluorooctanoic acid (PFOA)	87.6		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	88.3		P	30 - 160
Perfluoropentanoic acid (PFPeA)	94.0		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	83.1		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	98.1		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	89.9		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	120		P	30 - 160

Reference Method: DEP SOP: LC-001-3
Batch ID: P405507

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	64.3		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	70.4		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	98.3		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	82.8		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	67.6		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	72.6		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	102		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	78.4		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	70.5		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	121		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	104		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	79.0		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	85.9		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	96.9		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	92.8		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	95.7		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	89.9		P	30 - 160
Perfluorobutanoic acid (PFBA)	66.8		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	69.1		P	30 - 160
Perfluorodecanoic acid (PFDA)	90.7		P	30 - 160
Perfluorododecanoic acid (PFDoA)	118		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	90.5		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	68.9		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	95.6		P	30 - 160
Perfluorohexanoic acid (PFHxA)	79.1		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	69.6		P	30 - 160
Perfluorononanoic acid (PFNA)	122		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	82.4		P	30 - 160
Perfluorooctanoic acid (PFOA)	63.6		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	88.8		P	30 - 160
Perfluoropentanoic acid (PFPeA)	92.1		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	99.9		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P405507

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluorotetradecanoic acid (PFTeA)	94.4		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	94.0		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	100		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P405365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284036	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	84.5	82.2	P/P	40 - 160
2284036	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	89.3	93.3	P/P	40 - 160
2284036	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.3	116	P/P	40 - 160
2284036	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	74.8	81.6	P/P	40 - 160
2284036	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	79.9	70.9	P/P	40 - 160
2284036	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	83.6	76.7	P/P	40 - 160
2284036	Hexafluoropropylene oxide dimer acid (HFPO-DA)	81.5	91.3	P/P	40 - 160
2284036	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.0	99.9	P/P	40 - 160
2284036	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	80.3	74.3	P/P	40 - 160
2284036	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	71.0	73.5	P/P	40 - 160
2284036	Perfluoro-1-butane sulfonamide (FBSA)	75.4	90.0	P/P	40 - 160
2284036	Perfluoro-1-hexane sulfonamide (FHxSA)	79.6	77.8	P/P	40 - 160
2284036	Perfluoro-1-octane sulfonamide (FOSA)	86.8	85.4	P/P	40 - 160
2284036	Perfluoro-3-methoxypropanoic acid (PFMPA)	91.5	102	P/P	40 - 160
2284036	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	113	95.8	P/P	40 - 160
2284036	Perfluoro-4-methoxybutanoic acid (PFMBA)	104	114	P/P	40 - 160
2284036	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	95.9	92.7	P/P	40 - 160
2284036	Perfluorobutanesulfonic acid (PFBS)	90.5	88.4	P/P	40 - 160
2284036	Perfluorobutanoic acid (PFBA)	67.1	65.1	P/P	40 - 160
2284036	Perfluorodecanesulfonic acid (PFDS)	86.2	80.0	P/P	40 - 160
2284036	Perfluorodecanoic acid (PFDA)	140	137	P/P	40 - 160
2284036	Perfluorododecanoic acid (PFDoA)	116	145	P/P	40 - 160
2284036	Perfluoroheptanesulfonic acid (PFHpS)	104	89.1	P/P	40 - 160
2284036	Perfluoroheptanoic acid (PFHpA)	83.1	74.8	P/P	40 - 160
2284036	Perfluorohexanesulfonic acid (PFHxS)	102	99.3	P/P	40 - 160
2284036	Perfluorohexanoic acid (PFHxA)	87.6	91.7	P/P	40 - 160
2284036	Perfluorononanesulfonic acid (PFNS)	82.1	79.9	P/P	40 - 160
2284036	Perfluorononanoic acid (PFNA)	145	124	P/P	40 - 160
2284036	Perfluorooctanesulfonic acid (PFOS)	84.4	77.8	P/P	40 - 160
2284036	Perfluorooctanoic acid (PFOA)	83.5	90.2	P/P	40 - 160
2284036	Perfluoropentanesulfonic acid (PFPeS)	87.3	102	P/P	40 - 160
2284036	Perfluoropentanoic acid (PFPeA)	91.5	92.7	P/P	40 - 160
2284036	Perfluoropropanesulfonic acid (PFPrS)	89.0	87.5	P/P	40 - 160
2284036	Perfluorotetradecanoic acid (PFTeA)	89.1	80.0	P/P	40 - 160
2284036	Perfluorotridecanoic acid (PFTriA)	89.0	87.8	P/P	40 - 160
2284036	Perfluoroundecanoic acid (PFUnA)	120	122	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P405448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284612	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	80.0	78.5	P/P	40 - 160
2284612	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	82.5	120	P/P	40 - 160
2284612	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	102	P/P	40 - 160
2284612	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	125	129	P/P	40 - 160
2284612	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	72.9	75.6	P/P	40 - 160
2284612	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	76.5	82.0	P/P	40 - 160
2284612	Hexafluoropropylene oxide dimer acid (HFPO-DA)	83.1	108	P/P	40 - 160
2284612	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	77.8	83.6	P/P	40 - 160
2284612	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	78.1	84.3	P/P	40 - 160
2284612	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	101	128	P/P	40 - 160
2284612	Perfluoro-1-butane sulfonamide (FBSA)	65.5	81.1	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P405448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284612	Perfluoro-1-hexane sulfonamide (FHxSA)	73.4	54.9	P/P	40 - 160
2284612	Perfluoro-1-octane sulfonamide (FOSA)	80.4	79.5	P/P	40 - 160
2284612	Perfluoro-3-methoxypropanoic acid (PFMPA)	91.6	72.4	P/P	40 - 160
2284612	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.5	99.0	P/P	40 - 160
2284612	Perfluoro-4-methoxybutanoic acid (PFMBA)	77.7	106	P/P	40 - 160
2284612	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	98.7	106	P/P	40 - 160
2284612	Perfluorobutanesulfonic acid (PFBS)	97.4	97.9	P/P	40 - 160
2284612	Perfluorobutanoic acid (PFBA)	106	110	P/P	40 - 160
2284612	Perfluorodecanesulfonic acid (PFDS)	87.1	84.7	P/P	40 - 160
2284612	Perfluorodecanoic acid (PFDA)	76.1	101	P/P	40 - 160
2284612	Perfluorododecanoic acid (PFDoA)	109	116	P/P	40 - 160
2284612	Perfluoroheptanesulfonic acid (PFHpS)	82.0	81.9	P/P	40 - 160
2284612	Perfluoroheptanoic acid (PFHpA)	64.0	66.2	P/P	40 - 160
2284612	Perfluorohexanoic acid (PFHxA)	78.7	91.4	P/P	40 - 160
2284612	Perfluorononanesulfonic acid (PFNS)	79.3	85.4	P/P	40 - 160
2284612	Perfluorononanoic acid (PFNA)	130	129	P/P	40 - 160
2284612	Perfluorooctanoic acid (PFOA)	79.5	84.6	P/P	40 - 160
2284612	Perfluoropentanesulfonic acid (PFPeS)	126	119	P/P	40 - 160
2284612	Perfluoropentanoic acid (PFPeA)	95.1	98.3	P/P	40 - 160
2284612	Perfluoropropanesulfonic acid (PFPrS)	97.2	67.4	P/P	40 - 160
2284612	Perfluorotetradecanoic acid (PFTeA)	88.2	85.9	P/P	40 - 160
2284612	Perfluorotridecanoic acid (PFTriA)	72.7	71.0	P/P	40 - 160
2284612	Perfluoroundecanoic acid (PFUnA)	147	130	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P405506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284643	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	48.4	46.9	P/P	30 - 160
2284643	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	69.8	84.7	P/P	30 - 160
2284643	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	94.8	98.4	P/P	30 - 160
2284643	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	83.5	79.6	P/P	30 - 160
2284643	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	67.5	68.8	P/P	30 - 160
2284643	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	73.0	78.6	P/P	30 - 160
2284643	Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.5	98.6	P/P	30 - 160
2284643	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	83.9	85.4	P/P	30 - 160
2284643	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	82.8	101	P/P	30 - 160
2284643	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	102	106	P/P	30 - 160
2284643	Perfluoro-1-butane sulfonamide (FBSA)	84.8	91.8	P/P	30 - 160
2284643	Perfluoro-1-hexane sulfonamide (FHxSA)	78.6	86.1	P/P	30 - 160
2284643	Perfluoro-1-octane sulfonamide (FOSA)	75.9	87.2	P/P	30 - 160
2284643	Perfluoro-3-methoxypropanoic acid (PFMPA)	92.8	72.5	P/P	30 - 160
2284643	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	98.2	106	P/P	30 - 160
2284643	Perfluoro-4-methoxybutanoic acid (PFMBA)	140	133	P/P	30 - 160
2284643	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	90.3	103	P/P	30 - 160
2284643	Perfluorobutanesulfonic acid (PFBS)	94.5	92.9	P/P	30 - 160
2284643	Perfluorobutanoic acid (PFBA)	92.1	115	P/P	30 - 160
2284643	Perfluorodecanesulfonic acid (PFDS)	51.3	52.6	P/P	30 - 160
2284643	Perfluorodecanoic acid (PFDA)	97.5	96.5	P/P	30 - 160
2284643	Perfluorododecanoic acid (PFDoA)	123	122	P/P	30 - 160
2284643	Perfluoroheptanesulfonic acid (PFHpS)	102	115	P/P	30 - 160
2284643	Perfluoroheptanoic acid (PFHpA)	69.3	67.5	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P405506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2284643	Perfluorohexanesulfonic acid (PFHxS)	105	132	P/P	30 - 160
2284643	Perfluorohexanoic acid (PFHxA)	86.9	92.3	P/P	30 - 160
2284643	Perfluorononanesulfonic acid (PFNS)	67.0	68.9	P/P	30 - 160
2284643	Perfluorononanoic acid (PFNA)	134	127	P/P	30 - 160
2284643	Perfluorooctanesulfonic acid (PFOS)	105	95.5	P/P	30 - 160
2284643	Perfluorooctanoic acid (PFOA)	94.0	83.3	P/P	30 - 160
2284643	Perfluoropentanesulfonic acid (PFPeS)	75.7	91.1	P/P	30 - 160
2284643	Perfluoropentanoic acid (PFPeA)	96.7	104	P/P	30 - 160
2284643	Perfluoropropanesulfonic acid (PFPrS)	73.7	80.4	P/P	30 - 160
2284643	Perfluorotetradecanoic acid (PFTeA)	94.7	106	P/P	30 - 160
2284643	Perfluorotridecanoic acid (PFTriA)	78.5	77.7	P/P	30 - 160
2284643	Perfluoroundecanoic acid (PFUnA)	122	105	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3
 Batch ID: P405507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2285523	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	54.0	51.4	P/P	30 - 160
2285523	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	72.1	76.7	P/P	30 - 160
2285523	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	110	102	P/P	30 - 160
2285523	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	87.5	102	P/P	30 - 160
2285523	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	74.5	77.9	P/P	30 - 160
2285523	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	75.5	74.2	P/P	30 - 160
2285523	Hexafluoropropylene oxide dimer acid (HFPO-DA)	75.2	91.9	P/P	30 - 160
2285523	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	57.5	54.4	P/P	30 - 160
2285523	Perfluoro-1-butane sulfonamide (FBSA)	94.3	103	P/P	30 - 160
2285523	Perfluoro-1-hexane sulfonamide (FHxSA)	78.9	86.6	P/P	30 - 160
2285523	Perfluoro-3-methoxypropanoic acid (PFMPA)	35.2	46.2	P/P	30 - 160
2285523	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	103	94.4	P/P	30 - 160
2285523	Perfluoro-4-methoxybutanoic acid (PFMBA)	185	184	F/F	30 - 160
2285523	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	95.5	95.7	P/P	30 - 160
2285523	Perfluorobutanesulfonic acid (PFBS)	98.3	106	P/P	30 - 160
2285523	Perfluorobutanoic acid (PFBA)	84.6	91.1	P/P	30 - 160
2285523	Perfluorodecanesulfonic acid (PFDS)	46.8	45.0	P/P	30 - 160
2285523	Perfluorodecanoic acid (PFDA)	88.1	87.0	P/P	30 - 160
2285523	Perfluorododecanoic acid (PFDoA)	106	117	P/P	30 - 160
2285523	Perfluoroheptanesulfonic acid (PFHpS)	107	103	P/P	30 - 160
2285523	Perfluorohexanesulfonic acid (PFHxS)	116	101	P/P	30 - 160
2285523	Perfluorononanesulfonic acid (PFNS)	66.1	60.3	P/P	30 - 160
2285523	Perfluoropentanesulfonic acid (PFPeS)	84.7	84.5	P/P	30 - 160
2285523	Perfluoropropanesulfonic acid (PFPrS)	63.9	78.5	P/P	30 - 160
2285523	Perfluorotetradecanoic acid (PFTeA)	114	102	P/P	30 - 160
2285523	Perfluorotridecanoic acid (PFTriA)	92.6	90.2	P/P	30 - 160
2285523	Perfluoroundecanoic acid (PFUnA)	90.0	107	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P405365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284036	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.76	Spike	P	0 - 35
2284036	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	4.38	Spike	P	0 - 35
2284036	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	19.0	Spike	P	0 - 35
2284036	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.70	Spike	P	0 - 35
2284036	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	11.9	Spike	P	0 - 35
2284036	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	8.61	Spike	P	0 - 35
2284036	Hexafluoropropylene oxide dimer acid (HFPO-DA)	11.3	Spike	P	0 - 35
2284036	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16.1	Spike	P	0 - 35
2284036	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	7.76	Spike	P	0 - 35
2284036	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.46	Spike	P	0 - 35
2284036	Perfluoro-1-butane sulfonamide (FBSA)	17.7	Spike	P	0 - 35
2284036	Perfluoro-1-hexane sulfonamide (FHxSA)	2.29	Spike	P	0 - 35
2284036	Perfluoro-1-octane sulfonamide (FOSA)	1.63	Spike	P	0 - 35
2284036	Perfluoro-3-methoxypropanoic acid (PFMPA)	10.9	Spike	P	0 - 35
2284036	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	16.7	Spike	P	0 - 35
2284036	Perfluoro-4-methoxybutanoic acid (PFMBA)	9.64	Spike	P	0 - 35
2284036	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	3.39	Spike	P	0 - 35
2284036	Perfluorobutanesulfonic acid (PFBS)	2.35	Spike	P	0 - 35
2284036	Perfluorobutanoic acid (PFBA)	3.03	Spike	P	0 - 35
2284036	Perfluorodecanesulfonic acid (PFDS)	7.46	Spike	P	0 - 35
2284036	Perfluorodecanoic acid (PFDA)	1.80	Spike	P	0 - 35
2284036	Perfluorododecanoic acid (PFDoA)	22.4	Spike	P	0 - 35
2284036	Perfluoroheptanesulfonic acid (PFHpS)	15.7	Spike	P	0 - 35
2284036	Perfluoroheptanoic acid (PFHpA)	10.5	Spike	P	0 - 35
2284036	Perfluorohexanesulfonic acid (PFHxS)	2.19	Spike	P	0 - 35
2284036	Perfluorohexanoic acid (PFHxA)	4.57	Spike	P	0 - 35
2284036	Perfluorononanesulfonic acid (PFNS)	2.72	Spike	P	0 - 35
2284036	Perfluorononanoic acid (PFNA)	16.2	Spike	P	0 - 35
2284036	Perfluorooctanesulfonic acid (PFOS)	3.82	Spike	P	0 - 35
2284036	Perfluorooctanoic acid (PFOA)	7.71	Spike	P	0 - 35
2284036	Perfluoropentanesulfonic acid (PFPeS)	15.4	Spike	P	0 - 35
2284036	Perfluoropentanoic acid (PFPeA)	1.30	Spike	P	0 - 35
2284036	Perfluoropropanesulfonic acid (PFPrS)	1.70	Spike	P	0 - 35
2284036	Perfluorotetradecanoic acid (PFTeA)	10.8	Spike	P	0 - 35
2284036	Perfluorotridecanoic acid (PFTriA)	1.36	Spike	P	0 - 35
2284036	Perfluoroundecanoic acid (PFUnA)	1.99	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P405448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284612	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.89	Spike	P	0 - 35
2284612	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	27.1	Spike	P	0 - 35
2284612	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.390	Spike	P	0 - 35
2284612	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	2.92	Spike	P	0 - 35
2284612	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.64	Spike	P	0 - 35
2284612	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	6.94	Spike	P	0 - 35
2284612	Hexafluoropropylene oxide dimer acid (HFPO-DA)	25.8	Spike	P	0 - 35
2284612	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	7.19	Spike	P	0 - 35
2284612	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	7.64	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P405448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284612	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	23.1	Spike	P	0 - 35
2284612	Perfluoro-1-butane sulfonamide (FBSA)	19.3	Spike	P	0 - 35
2284612	Perfluoro-1-hexane sulfonamide (FHxSA)	4.21	Spike	P	0 - 35
2284612	Perfluoro-1-octane sulfonamide (FOSA)	0.227	Spike	P	0 - 35
2284612	Perfluoro-3-methoxypropanoic acid (PFMPA)	23.4	Spike	P	0 - 35
2284612	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.97	Spike	P	0 - 35
2284612	Perfluoro-4-methoxybutanoic acid (PFMBA)	30.7	Spike	P	0 - 35
2284612	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.51	Spike	P	0 - 35
2284612	Perfluorobutanesulfonic acid (PFBS)	3.41	Spike	P	0 - 35
2284612	Perfluorobutanoic acid (PFBA)	3.72	Spike	P	0 - 35
2284612	Perfluorodecanesulfonic acid (PFDS)	2.79	Spike	P	0 - 35
2284612	Perfluorodecanoic acid (PFDA)	27.9	Spike	P	0 - 35
2284612	Perfluorododecanoic acid (PFDoA)	6.93	Spike	P	0 - 35
2284612	Perfluoroheptanesulfonic acid (PFHpS)	4.75	Spike	P	0 - 35
2284612	Perfluoroheptanoic acid (PFHpA)	6.55	Spike	P	0 - 35
2284612	Perfluorohexanesulfonic acid (PFHxS)	6.11	Spike	P	0 - 35
2284612	Perfluorohexanoic acid (PFHxA)	10.9	Spike	P	0 - 35
2284612	Perfluorononanesulfonic acid (PFNS)	7.41	Spike	P	0 - 35
2284612	Perfluorononanoic acid (PFNA)	0.775	Spike	P	0 - 35
2284612	Perfluorooctanesulfonic acid (PFOS)	2.78	Spike	P	0 - 35
2284612	Perfluorooctanoic acid (PFOA)	7.65	Spike	P	0 - 35
2284612	Perfluoropentanesulfonic acid (PFPeS)	1.31	Spike	P	0 - 35
2284612	Perfluoropentanoic acid (PFPeA)	5.77	Spike	P	0 - 35
2284612	Perfluoropropanesulfonic acid (PFPrS)	26.2	Spike	P	0 - 35
2284612	Perfluorotetradecanoic acid (PFTeA)	2.64	Spike	P	0 - 35
2284612	Perfluorotridecanoic acid (PFTriA)	2.37	Spike	P	0 - 35
2284612	Perfluoroundecanoic acid (PFUnA)	11.8	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P405506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284643	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.15	Spike	P	0 - 30
2284643	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	19.3	Spike	P	0 - 30
2284643	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	3.73	Spike	P	0 - 30
2284643	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	4.78	Spike	P	0 - 30
2284643	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.91	Spike	P	0 - 30
2284643	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	7.39	Spike	P	0 - 30
2284643	Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.19	Spike	P	0 - 30
2284643	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.77	Spike	P	0 - 30
2284643	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	20.1	Spike	P	0 - 30
2284643	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.94	Spike	P	0 - 30
2284643	Perfluoro-1-butane sulfonamide (FBSA)	7.93	Spike	P	0 - 30
2284643	Perfluoro-1-hexane sulfonamide (FHxSA)	9.11	Spike	P	0 - 30
2284643	Perfluoro-1-octane sulfonamide (FOSA)	13.9	Spike	P	0 - 30
2284643	Perfluoro-3-methoxypropanoic acid (PFMPA)	24.6	Spike	P	0 - 30
2284643	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.11	Spike	P	0 - 30
2284643	Perfluoro-4-methoxybutanoic acid (PFMBA)	4.84	Spike	P	0 - 30
2284643	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	12.8	Spike	P	0 - 30
2284643	Perfluorobutanesulfonic acid (PFBS)	1.37	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P405506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2284643	Perfluorobutanoic acid (PFBA)	22.4	Spike	P	0 - 30
2284643	Perfluorodecanesulfonic acid (PFDS)	2.50	Spike	P	0 - 30
2284643	Perfluorodecanoic acid (PFDA)	1.03	Spike	P	0 - 30
2284643	Perfluorododecanoic acid (PFDoA)	0.979	Spike	P	0 - 30
2284643	Perfluoroheptanesulfonic acid (PFHpS)	11.7	Spike	P	0 - 30
2284643	Perfluoroheptanoic acid (PFHpA)	1.96	Spike	P	0 - 30
2284643	Perfluorohexanesulfonic acid (PFHxS)	11.3	Spike	P	0 - 30
2284643	Perfluorohexanoic acid (PFHxA)	5.27	Spike	P	0 - 30
2284643	Perfluorononanesulfonic acid (PFNS)	2.80	Spike	P	0 - 30
2284643	Perfluorononanoic acid (PFNA)	5.60	Spike	P	0 - 30
2284643	Perfluorooctanesulfonic acid (PFOS)	6.35	Spike	P	0 - 30
2284643	Perfluorooctanoic acid (PFOA)	9.61	Spike	P	0 - 30
2284643	Perfluoropentanesulfonic acid (PFPeS)	15.5	Spike	P	0 - 30
2284643	Perfluoropentanoic acid (PFPeA)	6.46	Spike	P	0 - 30
2284643	Perfluoropropanesulfonic acid (PFPrS)	8.70	Spike	P	0 - 30
2284643	Perfluorotetradecanoic acid (PFTeA)	11.0	Spike	P	0 - 30
2284643	Perfluorotridecanoic acid (PFTriA)	1.02	Spike	P	0 - 30
2284643	Perfluoroundecanoic acid (PFUnA)	14.8	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P405507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285523	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4.93	Spike	P	0 - 30
2285523	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	5.16	Spike	P	0 - 30
2285523	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.36	Spike	P	0 - 30
2285523	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	15.6	Spike	P	0 - 30
2285523	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.46	Spike	P	0 - 30
2285523	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.74	Spike	P	0 - 30
2285523	Hexafluoropropylene oxide dimer acid (HFPO-DA)	20.0	Spike	P	0 - 30
2285523	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	20.3	Spike	P	0 - 30
2285523	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.12	Spike	P	0 - 30
2285523	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.54	Spike	P	0 - 30
2285523	Perfluoro-1-butane sulfonamide (FBSA)	5.81	Spike	P	0 - 30
2285523	Perfluoro-1-hexane sulfonamide (FHxSA)	6.25	Spike	P	0 - 30
2285523	Perfluoro-1-octane sulfonamide (FOSA)	1.72	Spike	P	0 - 30
2285523	Perfluoro-3-methoxypropanoic acid (PFMPA)	27.0	Spike	P	0 - 30
2285523	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.42	Spike	P	0 - 30
2285523	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.325	Spike	P	0 - 30
2285523	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.209	Spike	P	0 - 30
2285523	Perfluorobutanesulfonic acid (PFBS)	5.93	Spike	P	0 - 30
2285523	Perfluorobutanoic acid (PFBA)	4.07	Spike	P	0 - 30
2285523	Perfluorodecanesulfonic acid (PFDS)	3.15	Spike	P	0 - 30
2285523	Perfluorodecanoic acid (PFDA)	0.351	Spike	P	0 - 30
2285523	Perfluorododecanoic acid (PFDoA)	7.62	Spike	P	0 - 30
2285523	Perfluoroheptanesulfonic acid (PFHpS)	1.84	Spike	P	0 - 30
2285523	Perfluoroheptanoic acid (PFHpA)	10.9	Spike	P	0 - 30
2285523	Perfluorohexanesulfonic acid (PFHxS)	3.93	Spike	P	0 - 30
2285523	Perfluorohexanoic acid (PFHxA)	3.02	Spike	P	0 - 30
2285523	Perfluorononanesulfonic acid (PFNS)	8.66	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3
Batch ID: P405507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2285523	Perfluorononanoic acid (PFNA)	6.68	Spike	P	0 - 30
2285523	Perfluorooctanesulfonic acid (PFOS)	8.31	Spike	P	0 - 30
2285523	Perfluorooctanoic acid (PFOA)	3.32	Spike	P	0 - 30
2285523	Perfluoropentanesulfonic acid (PFPeS)	0.184	Spike	P	0 - 30
2285523	Perfluoropentanoic acid (PFPeA)	6.62	Spike	P	0 - 30
2285523	Perfluoropropanesulfonic acid (PFPrS)	20.5	Spike	P	0 - 30
2285523	Perfluorotetradecanoic acid (PFTeA)	11.1	Spike	P	0 - 30
2285523	Perfluorotridecanoic acid (PFTriA)	2.63	Spike	P	0 - 30
2285523	Perfluoroundecanoic acid (PFUnA)	11.0	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2284600
Field Sample ID: SB-4R-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	94.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	60.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	63.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	78.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	77.3	P	30 - 160

Lab Sample ID: 2284601
Field Sample ID: SB-2R-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	77.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	84.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	71.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	55.3	P	30 - 160

Lab Sample ID: 2284602
Field Sample ID: SB-48-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	96.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	66.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	79.3	P	30 - 160

Lab Sample ID: 2284603
Field Sample ID: SB-48-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	59.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	81.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	78.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	77.6	P	30 - 160

Lab Sample ID: 2284604
Field Sample ID: SB-48-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	64.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	66.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	81.5	P	30 - 160

Lab Sample ID: 2284605
Field Sample ID: SB-49-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	65.5	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2284605
Field Sample ID: SB-49-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	71.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.9	P	30 - 160

Lab Sample ID: 2284606
Field Sample ID: SB-49-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	79.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	75.1	P	30 - 160

Lab Sample ID: 2284607
Field Sample ID: SB-49-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	78.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	72.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	79.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	73.0	P	30 - 160

Lab Sample ID: 2284608
Field Sample ID: SB-1R-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	73.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	70.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	79.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	69.0	P	30 - 160

Lab Sample ID: 2284609
Field Sample ID: SB-50-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	58.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	74.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	73.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	71.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	53.3	P	30 - 160

Lab Sample ID: 2284610
Field Sample ID: SB-50-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	76.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	66.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	75.3	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2284610
Field Sample ID: SB-50-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	71.6	P	30 - 160

Lab Sample ID: 2284611
Field Sample ID: SB-50-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	66.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	83.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	67.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	62.0	P	30 - 160

Lab Sample ID: 2284612
Field Sample ID: SB-51-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	79.8	P	30 - 160

Lab Sample ID: 2284613
Field Sample ID: SB-51-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	96.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	61.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	75.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	83.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	70.6	P	30 - 160

Lab Sample ID: 2284614
Field Sample ID: SB-51-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	96.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	78.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	72.8	P	30 - 160

Lab Sample ID: 2284615
Field Sample ID: SB-52-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	75.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	37.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	81.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	59.3	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2284616
Field Sample ID: SB-52-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	67.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	76.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	73.1	P	30 - 160

Lab Sample ID: 2284617
Field Sample ID: SB-52-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	80.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	63.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	72.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	68.5	P	30 - 160

Lab Sample ID: 2284618
Field Sample ID: SB-53-0.5

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	69.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	74.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	64.9	P	30 - 160

Lab Sample ID: 2284619
Field Sample ID: SB-53-2.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	72.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	72.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	77.1	P	30 - 160

Lab Sample ID: 2284620
Field Sample ID: SB-53-4.0

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	99.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	70.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	81.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	72.6	P	30 - 160

Lab Sample ID: 2284633
Field Sample ID: VP-1-16-20

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	80.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	72.8	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2284633
Field Sample ID: VP-1-16-20

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	87.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	67.7	P	30 - 160

Lab Sample ID: 2284634
Field Sample ID: VP-1-26-30

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	76.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	74.3	P	30 - 160

Lab Sample ID: 2284635
Field Sample ID: VP-1-36-40

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	76.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	93.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	81.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	74.1	P	30 - 160

Lab Sample ID: 2284636
Field Sample ID: VP-1-46-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	81.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	79.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	94.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	84.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	66.3	P	30 - 160

Lab Sample ID: 2284637
Field Sample ID: VP-2-16-20

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	94.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.1	P	30 - 160

Lab Sample ID: 2284638
Field Sample ID: VP-2-26-30

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	73.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.5	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2284638
Field Sample ID: VP-2-26-30

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	75.0	P	30 - 160

Lab Sample ID: 2284639
Field Sample ID: VP-2-36-40

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	88.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	77.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.1	P	30 - 160

Lab Sample ID: 2284640
Field Sample ID: VP-2-46-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	77.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	92.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	69.5	P	30 - 160

Lab Sample ID: 2284641
Field Sample ID: DUP-VP-2-46-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	80.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	73.4	P	30 - 160

Lab Sample ID: 2284642
Field Sample ID: VP-3-16-20

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	69.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	93.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.4	P	30 - 160

Lab Sample ID: 2284643
Field Sample ID: VP-3-26-30

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	80.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	74.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	82.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	70.5	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2284644
Field Sample ID: VP-3-36-40

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	81.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	74.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.5	P	30 - 160

Lab Sample ID: 2284645
Field Sample ID: VP-3-46-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	81.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	92.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	75.5	P	30 - 160

Lab Sample ID: 2284646
Field Sample ID: VP-4-16-20

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	75.7	P	30 - 160

Lab Sample ID: 2284647
Field Sample ID: VP-4-26-30

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	144	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	61.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	153	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.7	P	30 - 160

Lab Sample ID: 2284648
Field Sample ID: VP-4-36-40

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	140	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	65.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	120	P	30 - 160

Lab Sample ID: 2284649
Field Sample ID: VP-4-46-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.8	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2284649
Field Sample ID: VP-4-46-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	73.8	P	30 - 160

Lab Sample ID: 2284650
Field Sample ID: VP-5-16-20

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	82.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	74.5	P	30 - 160

Lab Sample ID: 2284651
Field Sample ID: VP-5-26-30

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	97.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	95.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	69.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.5	P	30 - 160

Lab Sample ID: 2284652
Field Sample ID: VP-5-36-40

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	88.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	77.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	75.0	P	30 - 160

Lab Sample ID: 2284653
Field Sample ID: VP-5-46-50

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	90.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	148	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	66.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.6	P	30 - 160

Lab Sample ID: 2284654
Field Sample ID: DUP-VP-5-16-20

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	88.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	79.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	80.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2284654
Field Sample ID: DUP-VP-5-16-20

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.3	P	30 - 160

Lab Sample ID: 2284655
Field Sample ID: EQB-Screenpoint 1

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	47.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	112	P	30 - 160

Lab Sample ID: 2284656
Field Sample ID: EQB-Screenpoint 2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	70.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	65.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	75.6	P	30 - 160

Lab Sample ID: 2284657
Field Sample ID: FRB_DEPMW-4S

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	75.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	55.1	P	30 - 160

Lab Sample ID: 2284658
Field Sample ID: FRB-VP-3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	77.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	85.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	68.7	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A108501

Included Lab Sample IDs: 2284600, 2284601, 2284602, 2284603, 2284604, 2284605, 2284606, 2284607, 2284608, 2284609, 2284610, 2284611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	84.5	86.0	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	86.0	92.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	87.9	98.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.9	83.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.6	91.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	94.5	88.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	103	99.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	96.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.4	105	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	77.1	78.4	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	78.4	73.5	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	81.3	86.9	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	86.9	87.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	115	127	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	88.8	115	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	80.7	88.2	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	88.2	88.6	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	77.7	86.5	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	86.5	78.9	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	62.0	66.5	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	66.5	117	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	86.4	90.2	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	90.2	93.4	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	79.2	84.0	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	82.5	79.2	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	84.9	87.4	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	87.4	88.4	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	105	94.6	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	94.6	101	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	106	108	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	108	104	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	106	116	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	106	106	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	117	87.8	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	121	117	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	90.8	82.2	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	94.9	90.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	76.3	77.5	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	77.0	76.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	87.8	90.8	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	90.8	85.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	104	111	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	119	104	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	138	127	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	142	138	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	104	98.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	97.6	104	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	72.1	84.1	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	76.3	72.1	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	106	108	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	108	102	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A108501

Included Lab Sample IDs: 2284600, 2284601, 2284602, 2284603, 2284604, 2284605, 2284606, 2284607, 2284608, 2284609, 2284610, 2284611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorohexanoic acid (PFHxA)	94.5	98.7	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	98.7	86.8	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	78.2	81.1	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	81.1	88.2	P/P	60 - 160
Perfluorononanoic acid (PFNA)	113	134	P/P	60 - 160
Perfluorononanoic acid (PFNA)	134	116	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	86.3	88.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	88.6	91.0	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	91.0	87.8	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	94.8	98.5	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	98.5	90.0	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	116	80.6	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	123	116	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	88.9	95.2	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	98.3	88.9	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	125	92.4	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	136	125	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	88.9	99.7	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	92.8	88.9	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	78.6	79.3	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	79.3	82.3	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	127	134	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	134	114	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A108530

Included Lab Sample IDs: 2284612, 2284613, 2284614, 2284615, 2284616, 2284617, 2284618, 2284619, 2284620

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.9	85.9	P/P	60 - 160
11-Chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.8	94.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	106	93.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	94.2	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115	93.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	93.2	91.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	124	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	110	104	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	64.7	84.6	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	84.6	73.6	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	82.3	92.2	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	92.2	85.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	104	112	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	112	109	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.6	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	88.6	85.6	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	79.2	98.3	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	98.3	81.7	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	122	130	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	130	80.0	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	82.2	86.6	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	86.6	85.9	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A108530

Included Lab Sample IDs: 2284612, 2284613, 2284614, 2284615, 2284616, 2284617, 2284618, 2284619, 2284620

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	82.1	87.6	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	87.6	85.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	87.3	89.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	92.5	87.3	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	115	97.5	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	97.5	70.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	95.8	98.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	98.5	95.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	114	133	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	132	114	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	109	104	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	82.9	109	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	90.6	96.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.8	90.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	128	81.1	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	81.1	77.5	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	92.9	87.0	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	95.9	92.9	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	74.7	95.9	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	95.9	87.2	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	119	145	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	145	110	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	104	91.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	91.5	94.7	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	80.7	78.6	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	83.9	80.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	100	98.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	98.0	91.4	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	89.6	96.5	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	96.5	88.8	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	88.2	88.4	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	88.4	83.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	112	125	P/P	60 - 160
Perfluorononanoic acid (PFNA)	125	101	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	86.7	98.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	98.6	94.5	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	82.8	92.9	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	95.5	82.8	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	114	95.7	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	83.6	114	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	106	101	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	96.9	106	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	101	118	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	118	109	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	96.0	97.7	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	97.7	87.1	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	85.1	98.0	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	98.0	84.5	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	119	136	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.0	119	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A108591

Included Lab Sample IDs: 2284633, 2284634, 2284635, 2284636, 2284637, 2284638, 2284639, 2284640, 2284641, 2284642, 2284643, 2284644, 2284645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	81.9	90.3	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	90.3	89.4	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.8	81.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101	91.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	91.3	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.5	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115	97.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.6	96.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.3	88.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	94.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	91.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	94.8	104	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	62.9	80.0	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	67.3	73.7	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	80.0	67.3	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	82.3	84.9	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	84.6	82.9	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	84.9	84.6	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	104	99.6	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	108	93.0	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.6	108	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	83.4	95.0	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	88.6	83.4	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.0	102	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	79.2	80.7	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	80.7	87.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	87.9	84.6	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	121	142	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	122	144	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	144	121	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	82.2	82.3	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	82.3	85.3	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	85.3	86.9	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	76.1	82.0	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	78.1	76.1	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	82.0	82.8	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	82.1	78.1	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	82.3	84.1	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	84.1	85.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	92.5	82.3	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	115	77.8	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	77.5	79.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	77.8	77.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	107	103	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	95.8	96.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	96.9	107	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	119	130	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	130	145	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A108591

Included Lab Sample IDs: 2284633, 2284634, 2284635, 2284636, 2284637, 2284638, 2284639, 2284640, 2284641, 2284642, 2284643, 2284644, 2284645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	132	119	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	100	112	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	112	113	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	82.9	100	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	82.5	94.6	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	90.6	82.5	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	94.6	91.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	108	83.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	73.2	78.5	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	78.5	79.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	83.8	73.2	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	80.5	78.9	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	83.1	80.5	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	95.9	83.1	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	110	94.9	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	94.9	135	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	96.5	110	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	101	133	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	104	101	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	133	94.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	104	97.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	109	98.7	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	97.9	109	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	81.1	86.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	83.9	91.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	86.0	72.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	91.0	81.1	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	100	100	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	100	109	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	109	98.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	98.3	96.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	88.3	91.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	89.6	88.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	91.3	92.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	92.0	90.4	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	79.8	81.7	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	83.1	79.8	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	88.2	83.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	112	126	P/P	60 - 160
Perfluorononanoic acid (PFNA)	125	122	P/P	60 - 160
Perfluorononanoic acid (PFNA)	126	125	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	86.7	99.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	88.9	95.0	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	89.9	88.9	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	99.3	89.9	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	100	94.1	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	101	100	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	94.1	83.2	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	95.5	101	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	110	111	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A108591

Included Lab Sample IDs: 2284633, 2284634, 2284635, 2284636, 2284637, 2284638, 2284639, 2284640, 2284641, 2284642, 2284643, 2284644, 2284645

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropentanesulfonic acid (PFPeS)	83.6	89.0	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	89.0	110	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	102	96.2	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	96.2	97.0	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	96.9	102	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	97.0	94.7	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	73.9	91.4	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	74.9	73.9	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	91.4	108	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	93.1	90.2	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	96.0	99.7	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	99.7	93.1	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	80.1	92.3	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	85.1	80.1	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	92.3	83.3	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	114	116	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	116	114	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.0	114	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A108639

Included Lab Sample IDs: 2284646, 2284647, 2284648, 2284649, 2284650, 2284651, 2284652, 2284653, 2284654, 2284655, 2284656, 2284657, 2284658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroheptadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	122	91.7	P/P	60 - 160
11-Chloroheptadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	84.9	123	P/P	60 - 160
11-Chloroheptadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	91.7	84.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	106	90.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.1	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.7	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	105	92.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	92.7	99.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	98.4	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	101	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.4	101	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	61.3	70.5	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	79.6	61.3	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	83.0	79.6	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	63.3	84.4	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	83.2	99.3	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	84.4	83.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	101	118	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	118	108	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	129	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	85.9	90.9	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	90.9	105	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	91.9	85.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	75.5	91.2	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A108639

Included Lab Sample IDs: 2284646, 2284647, 2284648, 2284649, 2284650, 2284651, 2284652, 2284653, 2284654, 2284655, 2284656, 2284657, 2284658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	83.9	75.5	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	91.2	75.2	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.5	98.9	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	61.7	60.5	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	98.9	90.7	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	142	95.1	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	70.0	148	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	95.1	70.0	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	75.6	65.6	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	90.5	75.6	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	92.0	90.5	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	81.4	83.6	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	83.9	86.5	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	86.5	81.4	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	101	103	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	104	104	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	104	101	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	109	113	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	113	102	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	92.8	109	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	108	114	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	110	108	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	114	113	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	109	93.1	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	84.5	99.0	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	99.0	109	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	113	91.2	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	94.2	98.3	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	98.3	113	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	73.0	77.5	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	77.5	78.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	78.8	79.0	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	111	85.7	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	66.9	84.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	85.7	66.9	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	102	101	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	122	102	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	98.5	122	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	108	125	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	117	127	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	125	117	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	106	112	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	112	99.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	93.5	106	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	78.6	88.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	78.7	78.6	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	88.8	75.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	101	108	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	114	101	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.4	114	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A108639

Included Lab Sample IDs: 2284646, 2284647, 2284648, 2284649, 2284650, 2284651, 2284652, 2284653, 2284654, 2284655, 2284656, 2284657, 2284658

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorohexanoic acid (PFHxA)	90.3	81.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	91.7	90.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	95.7	91.7	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	63.2	81.5	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	81.5	85.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	85.9	83.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	110	121	P/P	60 - 160
Perfluorononanoic acid (PFNA)	121	128	P/P	60 - 160
Perfluorononanoic acid (PFNA)	136	110	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	94.5	90.9	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	95.6	96.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	96.6	94.5	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	97.0	96.6	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	88.8	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	88.8	88.7	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	96.3	106	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	62.4	82.3	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	64.7	82.8	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	82.8	62.4	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	90.1	90.6	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	90.6	98.2	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	98.2	95.6	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	109	120	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	120	128	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	128	106	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	101	103	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	103	91.6	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	91.6	97.5	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	83.5	80.0	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	88.5	88.6	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	88.6	83.5	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	103	137	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	128	103	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	145	128	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
				LCS			
DEP SOP: LC-001-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	103		84.5	82.2		2.76
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.3		78.5	80.0		1.89
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	66.1		48.4	46.9		3.15
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	64.3		54.0	51.4		4.93
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	73.9		89.3	93.3		4.38
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	83.5		82.5	120		27.1
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.4		69.8	84.7		19.3
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	70.4		72.1	76.7		5.16
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	83.2		96.3	116		19.0
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	114		103	102		0.390
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.6		94.8	98.4		3.73
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	98.3		110	102		7.36
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	77.2		74.8	81.6		8.70
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	82.8		125	129		2.92
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	68.9		83.5	79.6		4.78
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	82.8		87.5	102		15.6
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	65.0		79.9	70.9		11.9
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	68.4		72.9	75.6		3.64
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	71.9		67.5	68.8		1.91
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	67.6		74.5	77.9		4.46
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	97.9		83.6	76.7		8.61
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	83.2		82.0	76.5		6.94
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	80.3		73.0	78.6		7.39
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	72.6		75.5	74.2		1.74
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	104		81.5	91.3		11.3
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	100		83.1	108		25.8
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	101		95.5	98.6		3.19
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	102		75.2	91.9		20.0
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.0		85.0	99.9		16.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	77.0	77.8	83.6		7.19
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	88.6	83.9	85.4		1.77
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.6				20.3
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	80.5	80.3	74.3		7.76
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	76.3	78.1	84.3		7.64
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	79.0	82.8	101		20.1
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	78.4				5.12
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	71.0	73.5		3.46
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	107	128	101		23.1
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	98.0	102	106		3.94
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	70.5	57.5	54.4		5.54
	Perfluoro-1-butane sulfonamide (FBSA)	59.2	75.4	90.0		17.7
	Perfluoro-1-butane sulfonamide (FBSA)	86.5	81.1	65.5		19.3
	Perfluoro-1-butane sulfonamide (FBSA)	111	84.8	91.8		7.93
	Perfluoro-1-butane sulfonamide (FBSA)	121	94.3	103		5.81
	Perfluoro-1-hexane sulfonamide (FHxSA)	40.7	79.6	77.8		2.29
	Perfluoro-1-hexane sulfonamide (FHxSA)	83.0	54.9	73.4		4.21
	Perfluoro-1-hexane sulfonamide (FHxSA)	103	78.6	86.1		9.11
	Perfluoro-1-hexane sulfonamide (FHxSA)	104	78.9	86.6		6.25
	Perfluoro-1-octane sulfonamide (FOSA)	83.9	86.8	85.4		1.63
	Perfluoro-1-octane sulfonamide (FOSA)	85.8	79.5	80.4		0.227
	Perfluoro-1-octane sulfonamide (FOSA)	84.8	75.9	87.2		13.9
	Perfluoro-1-octane sulfonamide (FOSA)	79.0				1.72
	Perfluoro-3-methoxypropanoic acid (PFMPA)	97.3	91.5	102		10.9
	Perfluoro-3-methoxypropanoic acid (PFMPA)	88.1	72.4	91.6		23.4
	Perfluoro-3-methoxypropanoic acid (PFMPA)	80.9	92.8	72.5		24.6
	Perfluoro-3-methoxypropanoic acid (PFMPA)	85.9	35.2	46.2		27.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
DEP SOP: LC-001-3	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	118		113	95.8		16.7
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	109		99.0	90.5		8.97
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	94.7		98.2	106		8.11
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	96.9		103	94.4		8.42
	Perfluoro-4-methoxybutanoic acid (PFMBA)	66.4		104	114		9.64
	Perfluoro-4-methoxybutanoic acid (PFMBA)	115		106	77.7		30.7
	Perfluoro-4-methoxybutanoic acid (PFMBA)	133		140	133		4.84
	Perfluoro-4-methoxybutanoic acid (PFMBA)	92.8		185	184		0.325
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	78.8		95.9	92.7		3.39
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	89.4		106	98.7		7.51
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	96.4		90.3	103		12.8
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	95.7		95.5	95.7		0.209
	Perfluorobutanesulfonic acid (PFBS)	86.5		90.5	88.4		2.35
	Perfluorobutanesulfonic acid (PFBS)	94.5		97.4	97.9		3.41
	Perfluorobutanesulfonic acid (PFBS)	100		94.5	92.9		1.37
	Perfluorobutanesulfonic acid (PFBS)	89.9		98.3	106		5.93
	Perfluorobutanoic acid (PFBA)	61.6		67.1	65.1		3.03
	Perfluorobutanoic acid (PFBA)	69.6		106	110		3.72
	Perfluorobutanoic acid (PFBA)	84.7		92.1	115		22.4
	Perfluorobutanoic acid (PFBA)	66.8		84.6	91.1		4.07
	Perfluorodecanesulfonic acid (PFDS)	113		86.2	80.0		7.46
	Perfluorodecanesulfonic acid (PFDS)	88.8		84.7	87.1		2.79
	Perfluorodecanesulfonic acid (PFDS)	73.2		51.3	52.6		2.50
	Perfluorodecanesulfonic acid (PFDS)	69.1		46.8	45.0		3.15
	Perfluorodecanoic acid (PFDA)	89.7		140	137		1.80
	Perfluorodecanoic acid (PFDA)	91.3		76.1	101		27.9
	Perfluorodecanoic acid (PFDA)	108		97.5	96.5		1.03
	Perfluorodecanoic acid (PFDA)	90.7		88.1	87.0		0.351
	Perfluorododecanoic acid (PFDoA)	156		116	145		22.4
	Perfluorododecanoic acid (PFDoA)	114		116	109		6.93
	Perfluorododecanoic acid (PFDoA)	111		123	122		0.979
	Perfluorododecanoic acid (PFDoA)	118		106	117		7.62
Perfluoroheptanesulfonic acid (PFHpS)	62.9		104	89.1		15.7	
Perfluoroheptanesulfonic acid (PFHpS)	99.6		82.0	81.9		4.75	
Perfluoroheptanesulfonic acid (PFHpS)	95.1		102	115		11.7	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	SMP		
DEP SOP: LC-001-3	Perfluoroheptanesulfonic acid (PFHpS)	90.5	107	103		1.84
	Perfluoroheptanoic acid (PFHpA)	89.7	83.1	74.8		10.5
	Perfluoroheptanoic acid (PFHpA)	77.8	64.0	66.2		6.55
	Perfluoroheptanoic acid (PFHpA)	66.2	69.3	67.5		1.96
	Perfluoroheptanoic acid (PFHpA)	68.9				10.9
	Perfluorohexanesulfonic acid (PFHxS)	104	102	99.3		2.19
	Perfluorohexanesulfonic acid (PFHxS)	107				6.11
	Perfluorohexanesulfonic acid (PFHxS)	99.1	105	132		11.3
	Perfluorohexanesulfonic acid (PFHxS)	95.6	116	101		3.93
	Perfluorohexanoic acid (PFHxA)	81.6	87.6	91.7		4.57
	Perfluorohexanoic acid (PFHxA)	87.1	78.7	91.4		10.9
	Perfluorohexanoic acid (PFHxA)	89.9	86.9	92.3		5.27
	Perfluorohexanoic acid (PFHxA)	79.1				3.02
	Perfluorononanesulfonic acid (PFNS)	93.8	82.1	79.9		2.72
	Perfluorononanesulfonic acid (PFNS)	81.4	79.3	85.4		7.41
	Perfluorononanesulfonic acid (PFNS)	75.6	67.0	68.9		2.80
	Perfluorononanesulfonic acid (PFNS)	69.6	66.1	60.3		8.66
	Perfluorononanoic acid (PFNA)	99.0	145	124		16.2
	Perfluorononanoic acid (PFNA)	117	130	129		0.775
	Perfluorononanoic acid (PFNA)	126	134	127		5.60
	Perfluorononanoic acid (PFNA)	122				6.68
	Perfluorooctanesulfonic acid (PFOS)	87.3	84.4	77.8		3.82
	Perfluorooctanesulfonic acid (PFOS)	88.6				2.78
	Perfluorooctanesulfonic acid (PFOS)	93.0	105	95.5		6.35
	Perfluorooctanesulfonic acid (PFOS)	82.4				8.31
	Perfluorooctanoic acid (PFOA)	87.4	83.5	90.2		7.71
	Perfluorooctanoic acid (PFOA)	80.2	79.5	84.6		7.65
	Perfluorooctanoic acid (PFOA)	87.6	94.0	83.3		9.61
	Perfluorooctanoic acid (PFOA)	63.6				3.32
	Perfluoropentanesulfonic acid (PFPeS)	74.0	87.3	102		15.4
	Perfluoropentanesulfonic acid (PFPeS)	84.7	126	119		1.31
	Perfluoropentanesulfonic acid (PFPeS)	88.3	75.7	91.1		15.5
Perfluoropentanesulfonic acid (PFPeS)	88.8	84.7	84.5		0.184	
Perfluoropentanoic acid (PFPeA)	96.2	91.5	92.7		1.30	
Perfluoropentanoic acid (PFPeA)	89.5	95.1	98.3		5.77	
Perfluoropentanoic acid (PFPeA)	94.0	96.7	104		6.46	
Perfluoropentanoic acid (PFPeA)	92.1				6.62	
Perfluoropropanesulfonic acid (PFPrS)	115	89.0	87.5		1.70	
Perfluoropropanesulfonic acid (PFPrS)	87.9	67.4	97.2		26.2	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	MS	SMP	MS
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	83.1	73.7	80.4		8.70
	Perfluoropropanesulfonic acid (PFPrS)	99.9	63.9	78.5		20.5
	Perfluorotetradecanoic acid (PFTeA)	94.0	89.1	80.0		10.8
	Perfluorotetradecanoic acid (PFTeA)	83.7	85.9	88.2		2.64
	Perfluorotetradecanoic acid (PFTeA)	98.1	94.7	106		11.0
	Perfluorotetradecanoic acid (PFTeA)	94.4	114	102		11.1
	Perfluorotridecanoic acid (PFTriA)	69.9	89.0	87.8		1.36
	Perfluorotridecanoic acid (PFTriA)	73.9	71.0	72.7		2.37
	Perfluorotridecanoic acid (PFTriA)	89.9	78.5	77.7		1.02
	Perfluorotridecanoic acid (PFTriA)	94.0	92.6	90.2		2.63
	Perfluoroundecanoic acid (PFUnA)	73.7	120	122		1.99
	Perfluoroundecanoic acid (PFUnA)	115	147	130		11.8
	Perfluoroundecanoic acid (PFUnA)	120	122	105		14.8
	Perfluoroundecanoic acid (PFUnA)	100	90.0	107		11.0

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in sediment/solid matrices by HPLC/MS/MS	2284600, 2284601, 2284602, 2284603, 2284604, 2284605, 2284606, 2284607, 2284608, 2284609, 2284610, 2284611, 2284612, 2284613, 2284614, 2284615, 2284616, 2284617, 2284618, 2284619, 2284620
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2284633, 2284634, 2284635, 2284636, 2284637, 2284638, 2284639, 2284640, 2284641, 2284642, 2284643, 2284644, 2284645, 2284646, 2284647, 2284648, 2284649, 2284650, 2284651, 2284652, 2284653, 2284654, 2284655, 2284656, 2284657, 2284658
SM 2540 G (20th)	Percent solid determination before the other sample preparations.	2284677, 2284678, 2284684, 2284685, 2284686, 2284688, 2284689, 2284690, 2284707, 2284708, 2284709, 2284710, 2284711, 2284712, 2284713, 2284714, 2284715, 2284716, 2284717, 2284718, 2284719

Preparation and Analysis Log

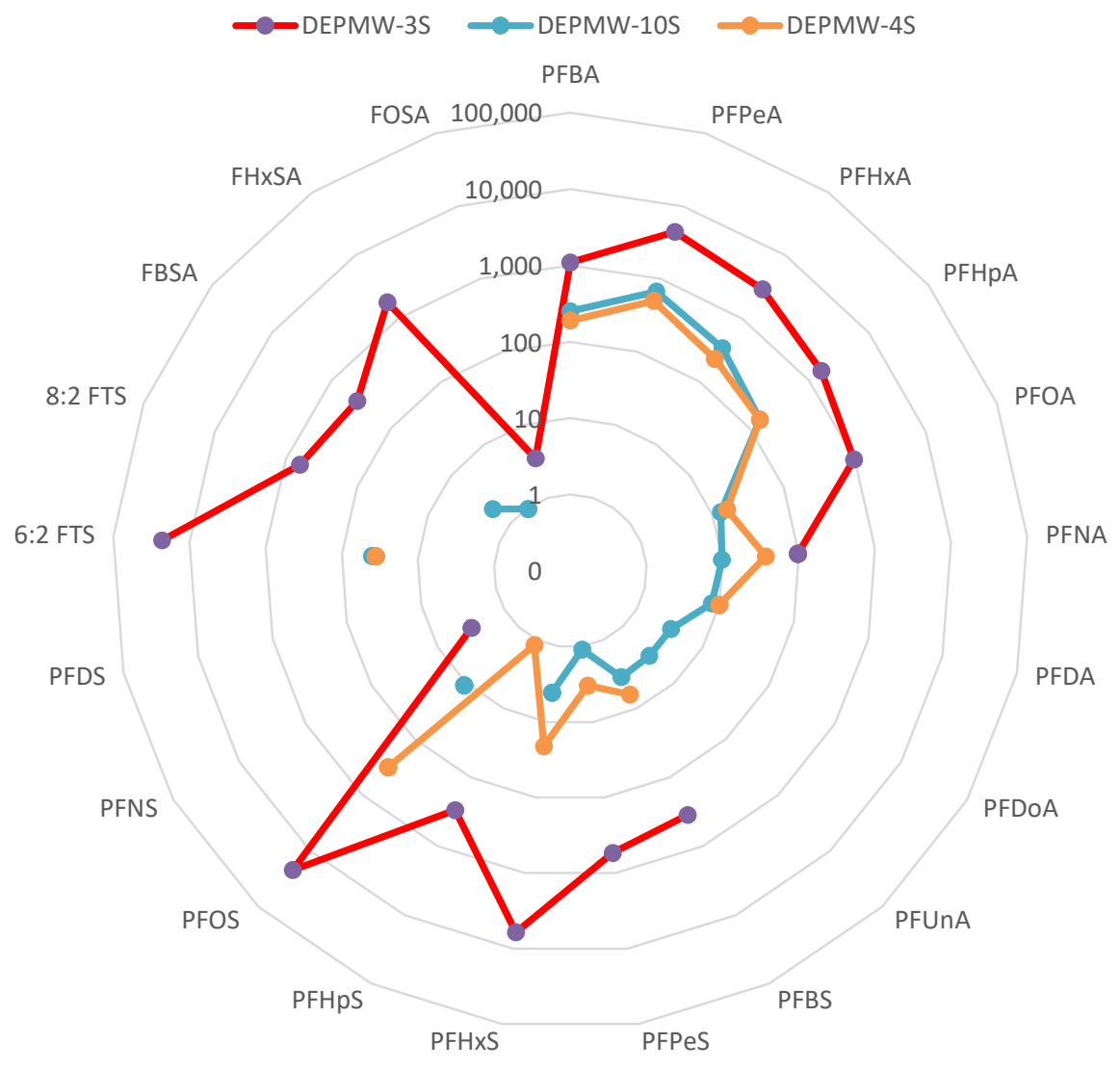
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	10/19/2021	10/21/2021 13:00	Rasheda Ghaffari	10/22/2021 13:22	Mohammad Ghaffari	2284610
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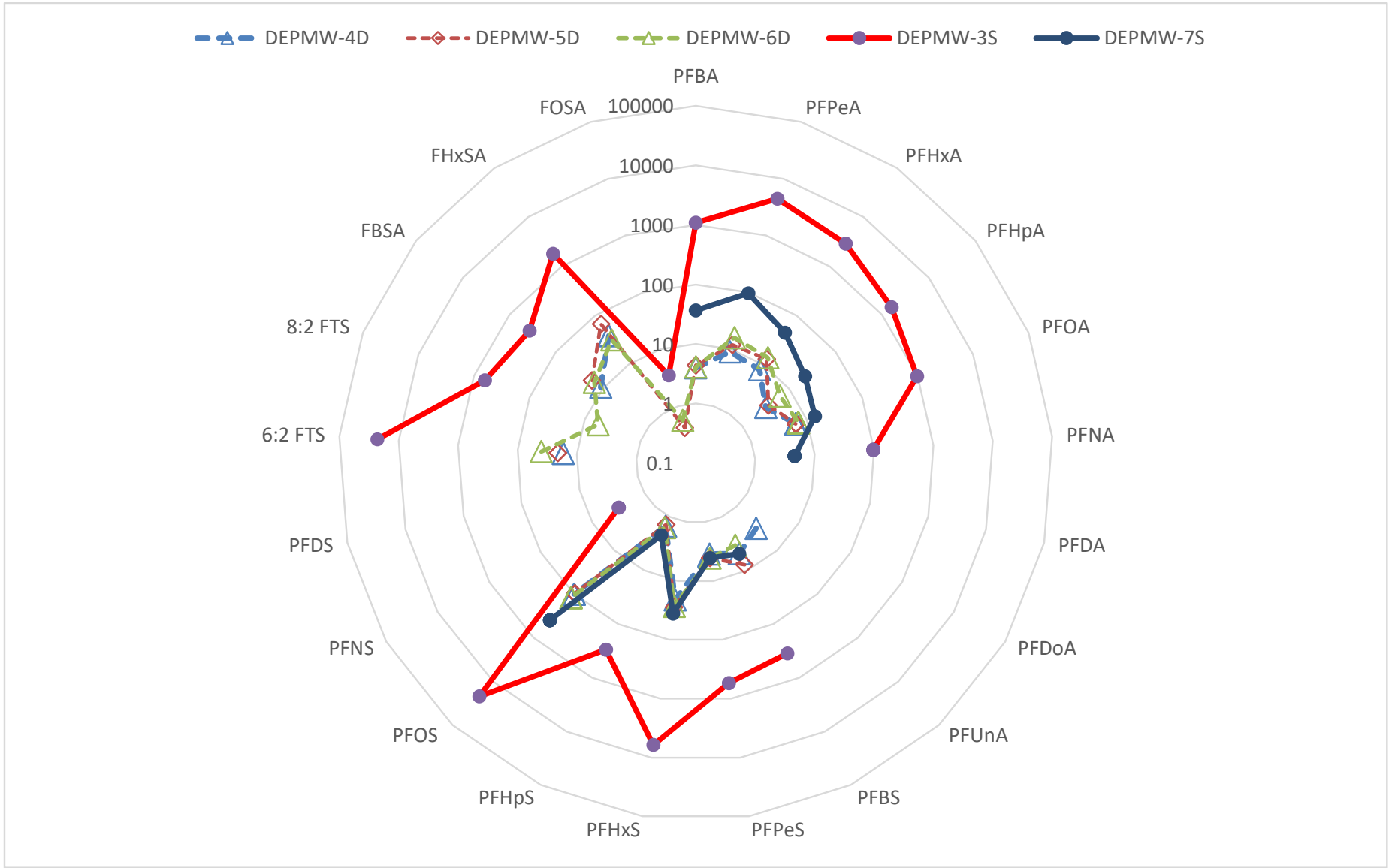
Preparation and Analysis Log

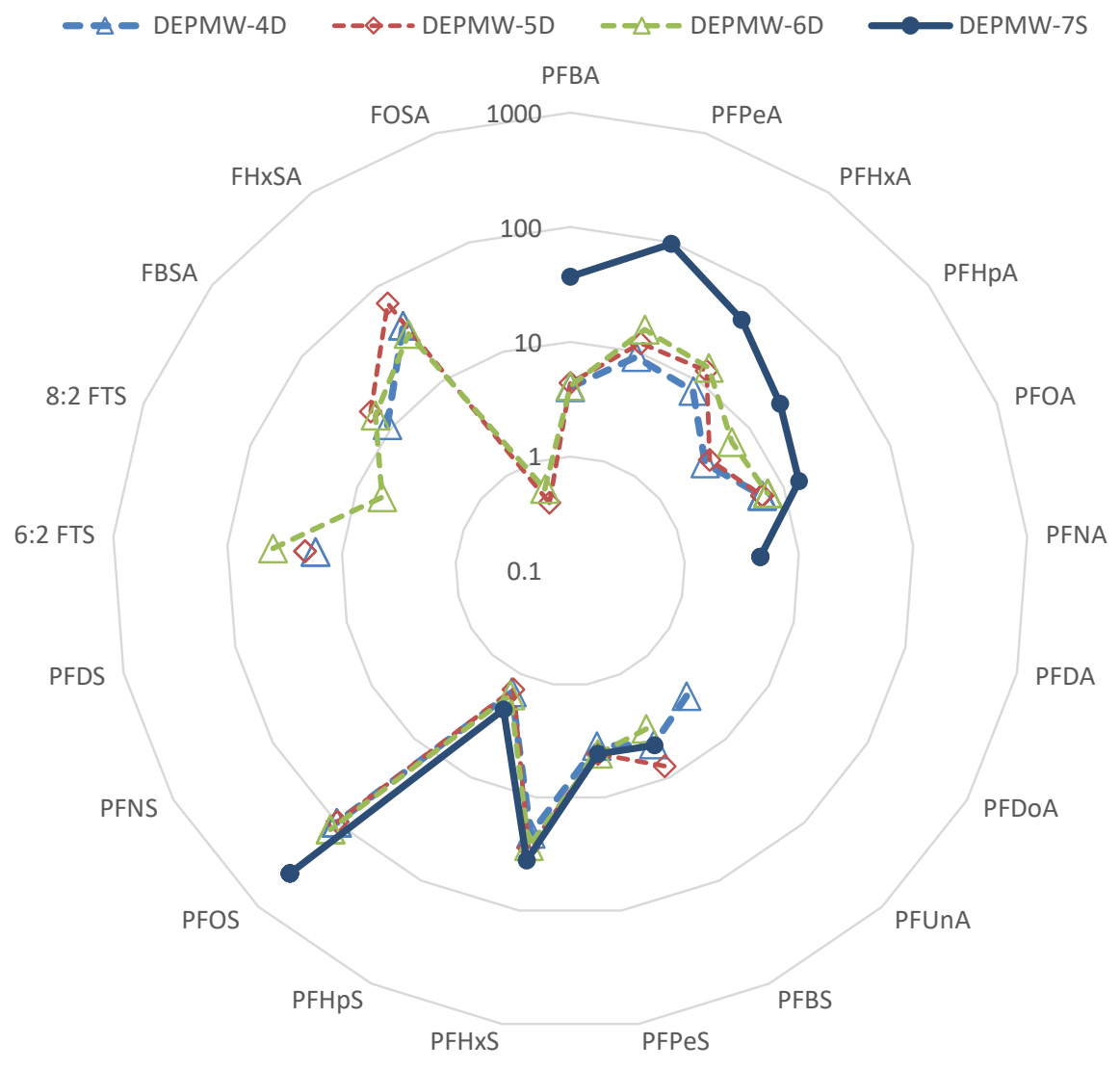
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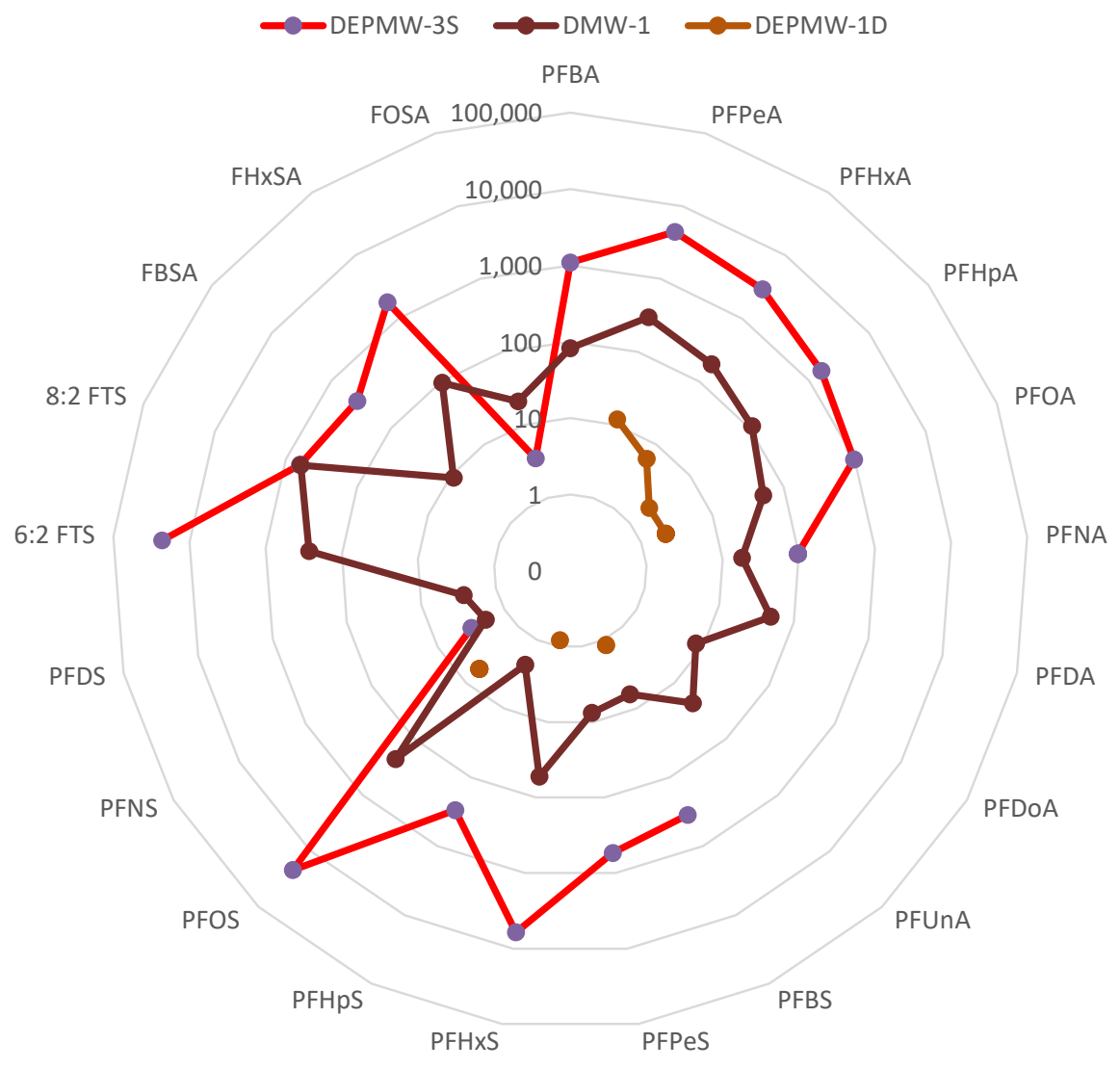
APPENDIX F

PFAS Signature Radar Charts









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