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Phase III Remedial Investigation Field Activities Summary Report

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Subject: Phase III Remedial Investigation Results
Dutchess County Fire Training Center - Site No. 314128
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This report has been prepared to summarize the results of the Phase III Remedial Investigation (RI) completed at the Duchess County Fire Training Center (DCFTC) (New York State Department of Environmental Conservation (NYSDEC) Site No. 314128) located at 392 Creek Road in the Town of Hyde Park, Dutchess County, New York (the Site). Based on the findings and conclusions presented in the *April 2023 Phase I RI Field Activities Summary Report (FASR)* and *August 2023 Phase II RI FASR*, additional remedial investigation activities were required. The primary objective of the Phase III

RI was to investigate multiple media (ground surface coverings, vegetation, vadose zone subsurface soil, bedrock groundwater, and overburden/bedrock aquifer hydrogeology) to further define the nature and extent of per- and polyfluoroalkyl substance (PFAS) contamination caused by the historic use of aqueous film forming foam (AFFF) during training operations.

The Phase III RI activities described in this report were completed by TRC between July 2024 and May 2025, in accordance with the NYSDEC-approved *July 2024 Phase III Remedial Investigation Work Plan (RIWP)*. Site location and layout maps are provided on **Figures 1** and **2**, respectively.

Site Description

Site Features

The Site is an active emergency response and fire training center, operated by the County of Dutchess. Approximately half of the eastern portion of the property is wooded and borders the Fall Kill, a NYSDEC Class C stream. The DCFTC is largely paved with vegetated areas on the northern, western, and southeastern perimeters, in addition to two small vegetated rectangular shaped areas in the northeastern portion of the Site, which are utilized for Jaws of Life training exercises. Across the DCFTC, pavement is largely cracked, uneven, pitted, or has subsided resulting in stormwater and training exercise waters infiltrating into underlying soils.

There is an earthen bottom water impoundment (approximately 50 feet long by 7 feet wide), utilized as a standing water source for fire training exercises, located near the eastern perimeter of the Site. There are two culverts associated with the water impoundment (one inlet and one outlet), both connecting to the Fall Kill. Water elevation within the impoundment is sourced and influenced by shallow groundwater and the Fall Kill. Based on past discussions with the Dutchess County Fire Commissioner, TRC understands that the impoundment is no longer utilized for training exercises.

In August 2022, as part of Phase I RI activities, TRC completed minor alterations to the on-Site water impoundment culverts. During Site visits, the culverts were determined to be constructed of 24-inch inner diameter corrugated steel piping with flared ends. In order to reduce the amount of potentially impacted surface water flowing from the on-Site water impoundment to the Fall Kill, TRC installed a mechanical plug on the Fall Kill side of the outlet culvert pipe. After further inspection of the inlet culvert (both Fall Kill and impoundment sides) and outlet culvert (impoundment side), the corrugated steel piping was found to be rusted/pitted and deformed, likely due to weathering. As a result, the three additional openings could not be sealed with mechanical plugs.

DCFTC-specific structures include a classroom, several multi-story fire training buildings, propane fueled fire training structures, and confined space training areas. The Site perimeter is secured by chain link fencing with the main access gate located on the western side. There are fire hydrants, throughout the Site, supplied with water sourced from the New York State Office of Mental Health (NYSOMH) Hudson River Psychiatric facility located south of the Site on Ross Circle. Located west and adjacent to the Dutchess County Emergency Response (DCER) office/call center building, in the southern part of the Site, is an on-Site groundwater supply well. As with the water impoundment, TRC understands that the supply well is no longer utilized.

Topography and Drainage

The Site is relatively flat. The eastern part of the Site slopes gradually downward toward the Fall Kill. Near the central eastern perimeter of the developed portion of Site, pavement is damaged, subsided, and sloped, and an apparent channel has formed directing stormwater runoff from the paved areas towards the Fall Kill. Further east of this channel, within the central wooded area between the DCFTC and Fall Kill, there is additional evidence of surface water runoff from the facility in the form of a gulley, likely caused by soil erosion/scouring over time. Additionally, further south, the on-Site maintenance building is connected to a open grate catch basin which drains via a storm sewer to an outfall east of the perimeter fencing to the Fall Kill.

Phase III Remedial Investigation Activities

General Notes

- Field work, including sample collection and analysis, was completed in accordance with TRC's Generic Health and Safety Plan (HASP), Field Activities Plan (FAP), Quality Assurance Project Plan (QAPP), and *July 2024 Phase III RIWP*.
- Where applicable, soil samples collected as part of the Phase III RI were screened for the presence of contamination (i.e., visual, olfactory, and via photoionization detector (PID)) and classified using the Unified Soil Classification System (USCS) and modified Burmister methods.
- Quality control samples, including, but not limited to, blind duplicates, equipment blanks, and matrix spike/matrix spike duplicates (MS/MSDs) were collected and analyzed at the frequencies specified in the Generic QAPP.
- Samples were submitted for analysis to Eurofins Environmental Testing Northeast, LLC of Buffalo, New York (Eurofins), under subcontract to TRC.
- Analytical Services Protocol (ASP) Category B (ASP-B) data deliverable packages were requested and subjected to data validation by Environmental Data Services, Inc. of Palm Beach Gardens, Florida (EDS), under subcontract to TRC.

- For ease of reference and referral to tables and figures, the Site code prefix “DCFTC-" has been omitted from sample identifications in this report.
- Phase III RI sample locations can be found on **Figure 3**.

Ground Surface Coverings and Vegetation Sampling

On July 2, 2024, TRC collected samples of ground surface coverings and vegetation in areas determined to be PFAS impacted during the Phase I and II RI.

The following materials were collected for laboratory analysis:

- Asphalt pavement – Six samples in “hot spot” areas identified during the Phase I and II RI (SN-101 through SN-105 plus one duplicate).
- Concrete – Three samples in “hot spot” areas identified during the Phase I and II RI (SN-106 through SN-108).
- Woody Vegetation – Seven samples, throughout the eastern wooded area and biased to a variety of species of trees larger than six inches in diameter at breast height (DBH) (TP-101 through TP-107). The woody vegetation samples consisted of bark and wood shavings, collected by boring through each tree using a hand drill and 1-inch diameter stainless steel spade bit.

The 16 ground surface covering/vegetation samples (including one duplicate) were preserved in a cooler with ice and submitted to Eurofins for analysis of PFAS by USEPA Method 537 Modified.

Fall Kill Stream Gauge Installation

On July 2, 2024, for future deployment of a pressure transducer, TRC installed a semi-permanent stream gauge consisting of a perforated poly-vinyl chloride (PVC) pipe and staff gauge in the Fall Kill. The staff gauge was bolted into a rock outcropping along the eastern ascending bank. The stilling well/protective housing for a pressure transducer was bolted to a tree opposite the staff gauge along the western ascending bank. The transducer housing consists of a perforated 2-inch diameter PVC pipe positioned 0.37 feet (4.4 inches) above the bottom at mid-channel. Further details on the stream gauge installation are provided in **Attachment 1**.

Utility Locating Surveys

Prior to the commencement of ground-intrusive activities, TRC confirmed that the drilling subcontractors, Parratt-Wolff, Inc. of East Syracuse, New York (PWI) and AARCO Environmental

Services, Inc. of Lindenhurst, New York (AARCO), had contacted Dig Safely New York, received/reviewed confirmation receipts from each utility, and verified public mark-outs.

On July 22 and September 3, 2024, in addition to the public utility mark-outs, private utility locating surveys were performed by Greenstar Environmental Solutions, LLC of Wappingers Falls, New York (Greenstar). The work areas in the planned boring and monitoring well locations were scanned for utilities. Subsurface utilities/structures/anomalies were identified on the ground surface with spray paint using standard American Public Works Association (APWA) utility color codes. Utility survey reports provided by Greenstar, including maps showing the locations and types of subsurface features identified, are included in **Attachment 2**.

Community Air Monitoring Plan

In accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP) (DER-10, Appendix 1A) and Site-Specific CAMP (*July 2024 RIWP,* Appendix B), air monitoring was conducted during ground intrusive activities. The CAMP included monitoring for both fugitive dust and organic vapors. Fugitive dust and organic vapor action levels provided in the NYSDOH Generic and Site-Specific CAMPs were utilized during the implementation of the work.

Two CAMP enclosures were deployed at the Site on a daily basis: one in the upwind direction and one in the downwind direction of the drill rig. Both enclosures contained a Dust Trak II unit for dust monitoring and a MiniRae 3000 PID for organic vapor monitoring. Each enclosure was connected to a Netronix system which uploaded real-time data and automatically calculated running 15-minute average concentrations measured by both the Dust Trak and PID. The system was programmed to notify field personnel via short message service (SMS) text message and email in the instance of an exceedance in order to facilitate rapid investigation/corrective action. Additionally, one handheld PID was utilized within the work area to field screen soil samples/drill cuttings and monitor breathing air vapor concentrations.

The NYSDOH Generic and Site-Specific CAMP action levels were not exceeded (for either fugitive dust or organic vapors) during the ground intrusive activities described below.

Supplemental Vadose Zone PFAS Impact Delineation Soil Sampling

Between July 23 and 24, 2024, PWI advanced 40 soil borings (SB-301 through SB-340) to a maximum depth of eight feet below ground surface (bgs), groundwater, or refusal, whichever was encountered first. Soil borings were advanced either utilizing a Geoprobe® and direct push technology (DPT) sampling techniques or hand auger depending on location and/or expected depth to water.

Prior to advancement of each soil boring, pavement or vegetation was removed to allow the hand collection of soil samples to 1.5 feet bgs. Where a hand auger was not utilized, continuous soil cores were then collected from each boring utilizing 1.5-inch diameter by 4-foot-long PVC dual-tubes. Where a stainless-steel hand auger was utilized, soil samples were collected at 6-inch intervals to the boring termination depths. Soil was visually classified and screened for presence of contamination by TRC. To screen for volatile vapors, measurements were collected from soil headspace immediately following the opening of each dual-tube utilizing a PID equipped with a 10.6 eV lamp calibrated with 100 parts per million (ppm) isobutylene gas.

At each boring location, to vertically delineate potential PFAS contamination, samples were selected for laboratory analysis as follows: Up to two soil samples at the depth intervals of 0 to 0.5 feet bgs and 0.5 to 1.5 feet bgs; up to one soil sample at the depth interval of 1.5 to 4 feet bgs; and one soil sample from 4 feet bgs to the apparent water table (generally observed at 6 feet bgs). As a result, a total of 122 soil samples (including 6 duplicates) from the 40 soil borings were submitted for laboratory analysis. Soil samples were placed in laboratory supplied containers, preserved in a cooler with ice, and submitted to Eurofins for analysis of PFAS by USEPA Method 537 Modified.

In addition to the above, to determine the leachability of PFAS from soils across a range of depths and varying total concentrations, extracts were prepared from select soil samples via the Toxicity Characteristic Leaching Procedure (TCLP) and Synthetic Precipitation Leaching Procedure (SPLP), and the extracts were analyzed for PFAS. Additionally, select soil samples were analyzed for Total Organic Carbon (TOC) by USEPA Methods 1633 and Lloyd Kahn, respectively. Ten soil samples, collected at varying depths, from 10 select soil borings, were submitted for the referenced analyses.

Following sample collection, each borehole was tremie grouted using a cement/bentonite grout mix through the DPT rods from the termination depth to ground surface. The boring locations were further restored at ground surface with asphalt or topsoil to match surrounding conditions.

Soil boring logs are provided in **Attachment 3**.

Overburden Monitoring Well Installation and Development

On September 13 and October 3, 2024, two groundwater monitoring wells (MW-301 and MW-302), co-located with select bedrock monitoring wells BMW-104 and BMW-105 discussed below, were installed along the eastern Site perimeter within the Central Hudson Gas and Electric Corporation (Cen-Hud) right of way (ROW). A third overburden groundwater monitoring well, originally planned near the western perimeter of the Site, was not installed due to the reported presence of geothermal

wells and associated subsurface infrastructure. Each overburden monitoring well was advanced to the approximate bedrock surface using 4.25-inch inner diameter (ID) hollow stem augers (HSAs).

Construction details for the two monitoring wells consisted of the following:

- Each well was constructed using 2-inch diameter PVC riser and 5 to 6 feet of 0.01-slot PVC screen. At each location, the well screen was set directly above the apparent bedrock surface. Short screen lengths were utilized as needed to accommodate shallow well termination depths (8.5 feet bgs at MW-301 and 9 feet bgs at MW-302) and installation of annulus materials.
- The annulus between the well and borehole wall was backfilled with No. 1 sand to 0.5 feet to 1 foot above the well screen. Following the filter sand, a minimum 1-foot-thick hydrated bentonite seal was installed. The remaining annulus was filled with a cement/bentonite grout to approximately 0.5-feet bgs, as conditions allowed.
- Each well was completed above ground surface within a steel protective standpipe set in a concrete pad.
- Following installation, each newly installed overburden well was found to be dry. Therefore, well development activities were not completed.
- Investigation derived waste (IDW) including excess drilling soils and decontamination liquids were containerized on-Site in 20-cubic yard rolloff containers (solids) and 10,000-gallon frac tanks (liquids).

Monitoring well construction logs can be found in **Attachment 4**.

Bedrock Monitoring Well Installation and Development

Open Hole Bedrock Well Installation

Between September 4 and October 3, 2024, AARCO installed five open hole bedrock monitoring wells (BMW-101 through BMW-105) around the Site perimeter. Location BMW-102, originally proposed for installation on the western boundary, was relocated approximately 120 feet southeast due to the reported presence of geothermal wells and associated infrastructure within the western parking lot. As part of this task, the following was completed:

- Prior to installation of each bedrock monitoring well, pavement or vegetation was removed to allow the hand collection of two soil samples at the depth intervals of 0 to 0.5 feet bgs and 0.5 to 1.5 feet bgs. Continuous soil cores were then collected from each boring utilizing 1.5-inch diameter by 4-foot-long PVC dual-tubes to drilling refusal. Soil samples were classified and screened for indications of contamination. Soil boring logs are provided in **Attachment 3**.

- Four soil samples from each boring were submitted for analysis of PFAS by USEPA Method 1633. The soil sample depth intervals selected for analysis were as follows: 0 to 0.5 feet bgs, 0.5 to 1.5 feet bgs, the depth interval directly above the apparent soil-groundwater interface, and the depth interval directly above the overburden-bedrock interface.
- Boreholes were tremie grouted to a depth of 0.5 feet bgs and restored at the surface to match the surrounding surface (i.e., asphalt, concrete, gravel, etc.).
- Following soil sample collection, the upper 3 feet of soil at each well location (offset several feet from the corresponding grouted soil boring) were removed by hand and a length of PVC pipe was installed to prevent potential soil cave-in during drilling activities. The boreholes for the monitoring wells were advanced through the PVC pipe to bedrock using 8.25-inch ID HSAs. Once the bedrock surface was reached, a 7.75-inch diameter pilot hole was advanced through the HSAs using air rotary methods to approximately 5 feet into bedrock. A 6-inch diameter steel casing was then installed and grouted into place. Following a minimum 24-hour curing period, a 5.75-inch diameter borehole was advanced approximately 45 feet into bedrock using air-rotary drilling methods to the completion depth for each bedrock well. Limited well development (i.e., sufficient to remove foreign material introduced by drilling and drill cuttings) was completed on the new boreholes.
- BMW-101, BMW-102, and BMW-103 were finished with flush bolt-down manholes and concrete pads. BMW-104 and BMW-105 were finished with locking steel protective standpipes, also set in concrete pads.
- IDW generated during bedrock well installation and development activities was containerized on-Site in 20-cubic yard rolloff containers (solids) and 10,000-gallon frac tanks (liquids).

Bedrock Borehole Geophysics

Following installation and development, on October 8 and 9, 2024, Hager-Richter Geoscience, Inc. of Fords, New Jersey (HRGS) completed downhole geophysics on each open hole bedrock well. The purpose of the downhole geophysics was to identify transmissive bedrock fractures to inform final monitoring well completion details (i.e., screen length, depth, etc.). HRGS completed the following tests:

- Fluid temperature and conductivity logging
- Caliper logging
- Optical and acoustic televiewer
- Natural gamma ray
- Heat pulse flow meter under ambient and stress/pumping conditions

Additionally, TRC was provided a preliminary information deliverable (which contained similar information) in October 2024, used solely for the purpose of packer test interval selection (discussed further below). In summary, the downhole geophysical survey identified numerous potentially transmissive fractures within each borehole. A summary of findings of the borehole geophysical tests was provided to the NYSDEC in the *February 2025 Bedrock Monitoring Well Construction Recommendations Memorandum,* which includes the January 2025 Borehole Geophysical Logging Data Report, and is provided in **Attachment 5**.

Packer Testing

The findings of the borehole geophysical survey were used to select up to four packer test zones at each open hole bedrock well location. Between November 13 and December 10, 2024, AARCO completed packer testing at each of the following zones:

- BMW-101: 3 to 13 feet bgs, 19 to 29 feet bgs, and 39 to 49 feet bgs;
- BMW-102: 21 to 31 feet bgs and 35 to 45 feet bgs;
- BMW-103: 25 to 45 feet bgs and 37 to 47 feet bgs;
- BMW-104: 17 to 22 feet bgs, 24 to 29 feet bgs, 34 to 39 feet bgs, and 60 to 65 feet bgs; and
- BMW-105: 20 to 30 feet bgs and 38 to 43 feet bgs.

Each test interval was isolated using a double packer system, separated by a section of slotted steel rod with spacing selected based on the distribution of fractures at each interval. After inflating the packers, groundwater in each test interval was purged using a PFAS-free submersible pump and HDPE tubing. To verify test adequacy, water levels, pressure, and temperature above, within, and below each test zone were continuously monitored in real time using data-loggers. Samples were collected for laboratory analysis after indicator parameters (i.e., pH, conductivity, temperature, dissolved oxygen [DO], oxygen reduction potential [ORP], and turbidity) stabilized. A total of 14 bedrock groundwater samples (including 1 duplicate) were submitted for laboratory analysis of PFAS by USEPA Method 1633. Packer test logs are provided in **Attachment 6**.

IDW purge water generated during packer testing activities was containerized in the on-Site 10,000-gallon frac tanks.

Bedrock Monitoring Well Completion

Between March 11 and April 1, 2025, AARCO installed monitoring wells in the open bedrock boreholes. PFOA and PFOS were not detected above applicable Standards, Criteria, and Guidance (SCGs) in the packer test groundwater samples and, therefore, each borehole was converted into a single screen

sentinel well, with 10 to 15 feet of Schedule 40 PVC 0.01-slot well screen, installed across transmissive fractures along the upper portion of the open borehole. The purpose of this construction is to enable detection of PFAS, should it potentially migrate from the source overburden area (eastern central portion of the Fire Training Center) into the underlying bedrock aquifer. Recommended constructions for each well were presented in the *February 2025 Bedrock Monitoring Well Construction Recommendations Memorandum* prepared by TRC and approved by the NYSDEC on February 24, 2025.

Construction details for the five bedrock monitoring wells consisted of the following:

- Due to the pitch/angle of the boreholes, filter sand pre-packed screens were used to avoid direct contact between the borehole wall and well screens.
- The open hole between the bottom of the well screen and bottom of the borehole was filled with a cement/bentonite grout via a tremie pipe.
- The annulus between the well and borehole wall was backfilled with a No. 0 filter sand to 2 feet above the screen followed by a minimum 2-foot-thick hydrated bentonite seal. The remaining annulus was filled with a cement/bentonite grout to approximately 0.5-to-1-foot bgs.
- Following installation, each bedrock monitoring was developed utilizing pump and surging techniques, as appropriate. Depth to groundwater and well bottom measurements were collected before and after well development activities using a PFAS-free water level meter. Development was considered complete when either turbidity was below 50 nephelometric turbidity units (NTUs), the well purged dry, or 10 well volumes had been removed, whichever occurred first.
- IDW generated primarily consisted of well development water and was containerized in steel 55-gallon drums.

Well construction logs are included as **Attachment 4**.

Groundwater Sampling

On April 21, 2025, prior to groundwater sampling activities, all Site monitoring wells were gauged with a PFAS-free water level meter to determine static potentiometric surface elevations and flow direction.

On April 21 and April 22, 2025, groundwater samples were collected from the seven newly installed monitoring wells (MW-301, MW-302, and BMW-101 through BMW-105) utilizing standard low-flow sampling techniques. Following stabilization of groundwater parameters (pH, conductivity, DO, ORP,

temperature, and turbidity), samples were collected in laboratory supplied bottles, placed on ice, and submitted to Eurofins for analysis of PFAS by USEPA Method 1633.

The groundwater sampling logs are provided in **Attachment 7**.

Overburden/Bedrock Aquifer Hydraulic Study

On April 23 and 24, 2025, falling head and rising head slug tests were completed at five overburden monitoring wells (MW-104, MW-105, MW-106, MW-301, and MW-302) and five shallow bedrock monitoring wells (BMW-101 through BMW-105). The purpose of the slug tests was to obtain estimates of the radial hydraulic conductivity of saturated soil and bulk hydraulic conductivity of bedrock screened by the monitoring wells.

Prior to testing at each well, water level was measured using an electronic water level meter with an accuracy of 0.01 feet. An In-situ® Level Troll 700 data logger/pressure transducer was then installed in the well and programmed to record water level changes in response to the introduction (falling head test) and subsequent removal (rising head test) of a solid cylindrical “slug” during the test, along with the subsequent rebound toward static conditions.

To minimize the potential for cross-contamination between wells, reusable downhole equipment (i.e., the water level meter and Level Troll data logger/transducer) was cleaned prior to use and between wells using a solution of potable water and Liquinox® followed by a rinse with distilled water.

Upon completion of the slug tests, water level response data collected during the tests was downloaded to a laptop computer. During processing of the water level response data, anomalous water levels and/or poor recoveries prevented calculation of hydraulic conductivity at BMW-101.

Overburden monitoring wells were analyzed using the unconfined analytical solutions developed by Bouwer and Rice (1976, 1989) and Dagan (1978), or the Kansas Geological Survey (1994) and bedrock wells were analyzed using the confined analytical solutions developed by Hvorslev (1951) or the Kansas Geological Survey (1994) while using AQTESOLV® software. Slug test/AQTESOLV plots for each test are provided in **Attachment 8**.

Following the slug testing, Level TROLLs were deployed within two bedrock monitoring wells (BMW-102 and BMW-105), three overburden monitoring wells (MW-203, MW-204, and MW-302), and the Fall Kill stream gauge for a period of one month (April to May 2025). The purpose of the one-month long data logger deployment was to observe the potential influence of Fall Kill surface water elevations on overburden and bedrock groundwater. Graphical summaries of bedrock/overburden groundwater

and Fall Kill surface water elevation changes over time during the data logger deployment can be found in **Attachment 9**.

Site Survey

On April 22, 2025, Susan M. Anacker Professional Land Surveyor, PLLC of Deerfield, New York (Susan Anacker), a New York State licensed land surveyor, surveyed the Site and updated the existing land survey mapping to include the completed Phase III RI sample locations. The following were incorporated into the land survey drawings:

- Locations and elevations (ground surface, top of protective casing elevation and top of PVC well casing) of the Phase III RI newly installed monitoring wells;
- Locations and ground surface elevations of Phase III RI direct-push soil borings;
- Locations and ground surface elevations of Phase III RI ground surface covering and vegetation samples;
- Location and elevation of the stream gauge and Fall Kill surface water.

The updated survey map, dated May 15, 2025, prepared by Susan Anacker can be found in **Attachment 10**.

Investigation Derived Waste Disposal

IDW generated during the Phase III RI activities included multiple media. Applicable to all completed activities, consumables (e.g., tubing, bailers, sample liners, etc.), PPE, and excess/expended monitoring well materials (e.g., PVC, empty concrete bags, garbage, etc.) were disposed of as general refuse.

IDW generated was periodically transported off-Site by AARCO for disposal at the Dale Transfer Corporation of West Babylon, New York. Non-hazardous IDW disposal manifests can be found in **Attachment 11** and include the following waste streams/quantities:

- Bulk Frac Tank Liquids – cumulative 11,050 gallons;
- Bulk Roll-Off Solids – cumulative 9.48 tons;
- 55-Gallon Drum Liquids – 5 drums; and
- 55-Gallon Drum Solids – 2 drums.

Blanding's Turtle Habitat Survey

On June 11 and 12, 2024, TRC conducted a Blanding's Turtle Habitat Assessment in accordance with guidelines outlined in the *Blanding's Turtle Habitats in Southern Dutchess County* document to determine the presence of suitable aquatic/wetland habitats, upland habitats, and migration corridors within the project boundaries. Overall, TRC concluded that the Site offers marginal quality habitat that is generally unsuitable except perhaps for transient habitat use during seasonal movements. Further details are provided in the Turtle Habitat Assessment Report, included as **Attachment 12**.

Tree Survey

On September 18, 2024, TRC conducted a tree survey within the wooded area adjacent to the facility and west of the Fall Kill. The species and size (in DBH) were recorded. Sizes of tree trunks were measured with a tape at approximately 4.5 feet above ground surface. In addition, each surveyed tree was GPS located. TRC documented 334 trees with a DBH greater than 3 inches. The Tree Survey Summary Report, which includes a narrative summary, tabular listing, and figure of identified trees is included as **Attachment 13**.

Results

Ground Surface Coverings and Vegetation Sampling

A summary of the ground surface covering and vegetation sample analytical results can be found in **Table 1**. Ground surface covering and vegetation sample locations and select results are shown on **Figure 4**. No SCGs were used to evaluate the asphalt, concrete, or woody vegetation sampling results, as none exist at this time. A brief discussion of the results is presented below.

Asphalt and Concrete Results

- No visual, olfactory, or photo-ionic evidence of contamination was observed in the asphalt and concrete samples collected for analysis.
- Of the nine samples (including one duplicate) analyzed, various PFAS were detected in all.
- Perfluorooctanoic acid (PFOA) was detected in 8 of the 9 samples and ranged in concentration from 0.36 micrograms per kilogram (ug/kg) (SN-104) to 6.9 ug/kg (SN-107). SN-107 is a concrete sample collected in one of the fire training exercise stations in the central portion of the Site.
- Perfluoroctanesulfonic acid (PFOS) was detected in 7 of the 9 samples and ranged in concentration from 1.1 ug/kg (SN-106) to 150 ug/kg (SN-105). SN-105 is an asphalt sample collected adjacent to one of the fire training exercise stations in the central portion of the Site.

- 8:2 Fluorotelomer Sulfonate (8:2 FTS) (a precursor to PFOS) was detected in all 9 samples and ranged in concentration from 1.4 ug/kg (SN-101) to 15 ug/kg (SN-107). As noted above, SN-107 is a concrete sample collected in one of the fire training exercise stations in the central portion of the Site.
- Total detected PFAS (TDP) concentrations in the 9 samples ranged from 4.72 ug/kg (SN-101) to 171.2 ug/kg (SN-105). As noted above, SN-105 is an asphalt sample collected adjacent to one of the fire training exercise stations in the central portion of the Site.

Vegetation Analytical Results

- No evidence of visual, olfactory, or photo-ionic contamination was detected in the vegetation samples collected for analysis.
- Of the seven samples analyzed, various PFAS were detected in all but one sample (TP-103). PFOA was detected in only one sample (TP-104) at a concentration of 2.9 ug/kg. TP-104 was collected from a tree adjacent to the eastern gulley, created by surface water runoff from the Site and subsequent erosion of soils into the Fall Kill.
- PFOS was detected in 5 of the 7 samples at concentrations ranging from 2.9 ug/kg (TP-105) to 130 ug/kg (TP-107). TP-107 was collected from a tree located adjacent to a surface water discharge pathway from the fire training area.
- 8:2 FTS was detected in 2 of the samples at concentrations of 0.87 ug/kg (TP-104) and 9.9 ug/kg (TP-107). As noted above, TP-107 was collected from a tree located adjacent to a surface water discharge pathway.
- TDP concentrations in the 6 samples ranged from 1.7 ug/kg (TP-106) to 158.3 ug/kg (TP-107).

Supplemental PFAS Impact Delineation Soil Sampling – Vadose Zone

Lithology/Geology

As indicated by the 40 soil borings, encountered Site soil primarily consisted of silt, clay, sand, gravel and/or varying amounts of mixtures of each. Groundwater was visually apparent in all borings and depth to groundwater ranged approximately from 0.5 feet bgs (SB-323, SB-326, SB-327, SB-328, SB-331, and SB-332) to 6 feet bgs (SB-301, SB-302, SB-303, SB-304, SB-312, and SB-313). The maximum PID reading of 62.8 ppm was recorded during screening of the sample collected at a depth of 3 feet bgs from boring SB-335. Mild odor and staining were observed in SB-319 at an approximate depth of 3 feet bgs.

Bedrock was encountered in two soil borings (SB-301 and SB-302) at approximate depths of 7 feet bgs and 8 feet bgs, respectively. When adjusted to the North American Vertical Datum of 1988 (NAVD

88), the estimated apparent bedrock elevation encountered during the Phase III RI ranged from 210.78 feet (SB-301) to 209.41 feet (SB-302).

PFAS Soil Analytical Results

The SCGs used to evaluate the soil analytical results include the April 2023 NYSDEC Guidelines for Sampling and Analysis of PFAS Under NYSDEC Part 375 Remedial Programs, Unrestricted Use Soil Cleanup Objectives (UUSCOs), Residential Use SCOs (RESCOs), Restricted Residential Use SCOs (RRSCOs), Commercial Use SCOs (CUSCOs), and Industrial Use SCOs (IUSCOs) for PFOA and PFOS.

A summary of the soil sample analytical results can be found in **Table 2**. Soil boring locations and select results are shown on **Figure 5**. A brief discussion of the results is presented below.

- Of the 122 soil samples (including 6 duplicates) analyzed, various PFAS were detected in all but 11 samples.
- PFOA was detected in 87 of the 122 samples at concentrations below the RRUSCO, CUSCO, or IUSCO. Detected PFOA concentrations ranged from 0.037 ug/kg (SB-310 at a depth of 0.5 to 1.5 feet bgs) to 16 ug/kg (SB-322 at a depth of 0 to 0.5 feet bgs). Boring SB-322 was advanced in the southern wooded area, southeast of the paved fire training area and south of MW-204. Where detected in the 87 samples, the concentration of PFOA is above the UUSCO and RESCO in 22 and 3 samples, respectively.
- PFOS was detected in 94 of the 122 soil samples. The concentrations of PFOS detected ranged from 0.096 ug/kg (SB-334 at a depth of 0 to 0.5 feet bgs) to 2,000 ug/kg (SB-321 at a depth of 1.5 to 4 feet bgs). Boring SB-321 was advanced in the central portion of the Site, south of the Jaws of Life training areas. PFOS was detected at concentrations above the UUSCO, RESCO, RRSCO, and IUSCO in 65, 16, 20, and 1 samples, respectively.
- 8:2 FTS was detected in 85 of the 122 soil samples and ranged in concentration from 0.047 ug/kg (SB-334 at a depth of 0.5 to 1.5 feet bgs) to 100 ug/kg (SB-321 at a depth of 1.5 to 4 feet bgs). Boring SB-334 was advanced in the central portion of the Site.
- TDP concentrations detected ranged from 0.076 ug/kg (SB-313 at a depth of 0 to 0.5 feet bgs) to 2,182.89 ug/kg (SB-321 at a depth of 1.5 to 4 feet bgs). As mentioned above, boring SB-321 was advanced in the central portion of the Site, south of the Jaws of Life training areas.

TCLP/SPLP PFAS Soil Analytical Results

A summary of the results of analysis of the TCLP/SPLP extracts for PFAS can be found in **Table 3** and are summarized below. No SCGs were used to evaluate the results of analysis of the TCLP/SPLP extracts as none exist at this time.

- Of the 10 samples analyzed, PFAS were detected in all extracts.
- TCLP Extracts: PFOA was detected in 8 of the 10 samples and ranged in concentration from 0.89 nanograms per liter (ng/L) (SB-312 at a depth of 1.5 to 4 feet bgs) to 210 ng/L (SB-322 at a depth of 0 to 0.5 feet bgs). SPLP Extracts: PFOA was detected in 8 of the 10 samples and ranged in concentration from 1.3 ng/L (SB-339 at a depth of 0.5 to 1.5 feet bgs) to 200 ng/L (SB-322 at a depth of 0 to 0.5 feet bgs).
- TCLP Extracts: PFOS was detected in 7 of the 10 samples and ranged in concentration from 5.3 ng/L (SB-315 at a depth of 1.5 to 4 feet bgs) to 5,800 ng/L (SB-323 at a depth of 0 to 0.5 feet bgs). SPLP Extracts: PFOS was detected in 8 of the 10 samples and ranged in concentration from 0.52 ng/L (SB-312 at a depth of 1.5 to 4 feet bgs) to 10,000 ng/L (SB-323 at a depth of 0 to 0.5 feet bgs).
- TCLP Extracts: 8:2 FTS was detected in 7 of the 10 samples and ranged in concentration from 1.3 ng/L (SB-315 at a depth of 0.5 to 1.5 feet bgs) to 270 ng/L (SB-323 at a depth of 0 to 0.5 feet bgs). SPLP Extracts: 8:2 FTS was detected in 8 of the 10 samples and ranged in concentration from 1.3 ng/L (SB-315 at a depth of 0.5 to 1.5 feet bgs) to 480 ng/L (SB-323 at a depth of 0 to 0.5 feet bgs).
- TCLP Extracts: TDP in all 10 samples ranged from 0.59 ng/L (SB-301 at a depth of 0 to 0.5 feet bgs) to 6,985.14 ng/L (SB-323 at a depth of 0 to 0.5 feet bgs). SPLP Extracts: TDP in all 10 samples ranged from 0.53 ng/L (SB-301 at a depth of 0 to 0.5 feet bgs) to 11,526.91 ng/L (SB-323 at a depth of 0 to 0.5 feet bgs).

Bedrock Monitoring Wells

Lithology/Geology

Soils encountered during the advancement of BMW-101 through BMW-105 were similar to soils observed in the supplemental vadose zone soil borings described above. Soils primarily consisted of silt, clay, sand, gravel and/or varying amounts of mixtures of each. Overburden groundwater was encountered in two locations at approximate depths of six feet bgs (BMW-102) and nine feet bgs (BMW-103). No visual, olfactory, or photo-ionic evidence of contamination was observed in the bedrock monitoring well soil borings.

The encountered bedrock surface ranged in depth from 3 feet bgs (BMW-101) to 20 feet below ground surface (BMW-102). When adjusted to NAVD 88, the estimated bedrock surface elevation ranged from 214.84 feet (BMW-101) to 191.59 feet (BMW-102). While bedrock was not cored for visual inspection, HGRS's geophysical report (**Attachment 5**) indicated the presence of multiple intermediate and major fractures at various depths in BMW-102 through BMW-105. Numerous minor fractures were detected throughout the vertical length in each of the five boreholes.

Soil Analytical Results

The UUSCOs for PFOA and PFOS in the April 2023 NYSDEC Guidelines for Sampling and Analysis of PFAS Under NYSDEC Part 375 Remedial Programs were used to evaluate the bedrock monitoring well soil analytical results. A summary of the soil sample analytical results can be found in **Table 4**. The bedrock monitoring well locations and select results can be found on **Figure 6**. A brief discussion of the results is presented below.

- Of the 21 samples (including one duplicate) analyzed, various PFAS were detected in all but four samples.
- PFOA was detected in 17 of the 21 samples, all at concentrations below the UUSCO (0.66 ug/kg).
- PFOS was detected in 16 of the 21 samples, and above the UUSCO (0.88 ug/kg) in one sample, at a concentration of 1.8 ug/kg (BMW-102 at a depth of 0.5 to 1.5 feet bgs). BMW-102 is located south of the garage in the southeast portion of the Site.
- 8:2 FTS was detected in only two samples at concentrations of 0.2 ug/kg (BMW-101 at a depth of 0 to 0.5 feet bgs) and 0.32 ug/kg (BMW-101 at a depth of 1.5 to 3 feet bgs).
- TDP concentrations detected in the 17 samples ranged from 0.113 ug/kg (BMW-103 at a depth of 7 to 9 feet bgs) to 24.03 ug/kg (BMW-101 at a depth of 0 to 0.5 feet bgs). BMW-101 is located north of the fire training areas and south of the material storage area in the northern portion of the Site.

Packer Test Analytical Results

The SCGs used to evaluate the packer test analytical results are the February 2023 NYSDEC Guidance Values for Class GA Water for PFOA and PFOS (Class GA Values).

A summary of the packer test analytical results is provided in **Table 5**. The bedrock monitoring well locations subject to packer testing and select results are shown on **Figure 7**. A brief discussion of the results is presented below.

- Of the 14 samples submitted for analysis, PFOA was either not detected above laboratory reporting limits or was detected at concentrations below the Class GA Value (6.7 ng/L).
- Of the 14 samples submitted for analysis, PFOS was either not detected above laboratory reporting limits or was detected at concentrations below the Class GA Value (2.7 ng/L).
- 8:2 FTS was not detected above laboratory reporting limits in the 14 packer test samples submitted for analysis.
- TDP ranged in concentration from 1.1 ng/L (BMW-102 at a depth of 35 to 45 feet bgs) to 32.09 ng/L (BMW-101 at a depth of 19 to 29 feet bgs).

Groundwater Sampling

Hydrogeology

Measured depth to overburden groundwater during the April 21, 2025 gauging event ranged from 1.17 feet below top of riser (TOR) (MW-105) to 8.43 feet below TOR (MW-208). When adjusted to NAVD 88, overburden groundwater elevations ranged from 213.98 feet (MW-103) to 211.82 feet (MW-202). As shown on **Figure 8**, overburden groundwater at the Site flows southeast toward the Fall Kill.

Measured depth to bedrock groundwater during the April 21, 2025 gauging event ranged from 0.00 feet below TOR (BMW-102) to 6.91 feet below TOR (BMW-103). When adjusted to NAVD 88, bedrock groundwater elevations ranged from 216.18 feet (BMW-102) to 212.80 feet (BMW-104). As shown on **Figure 9**, bedrock groundwater at the Site flows to the east.

A summary of the April 21, 2025 overburden and bedrock gauging data can be found in **Table 6**.

Overburden Groundwater Analytical Results

The February 2023 NYSDEC Class GA Values for PFOA and PFOS were used to evaluate the overburden groundwater analytical results.

A summary of the overburden groundwater sample analytical results (MW-301 and MW-302) is presented in **Table 7**. The overburden monitoring well locations with select results are shown on **Figure 8**. A brief discussion of the results is presented below.

- PFOA was not detected above the Class GA Value (6.7 ng/L) in either overburden groundwater sample.
- PFOS was either not detected above laboratory reporting limits or was detected below the Class GA Value (2.7 ng/L) in both overburden groundwater samples.
- 8:2 FTS was not detected above laboratory limits in either overburden groundwater sample.

- TDP concentrations were 86.99 ng/L (MW-302) and 177.61 ng/L (MW-301).

Bedrock Groundwater Analytical Results

The February 2023 NYSDEC Class GA Values for PFOA and PFOS were used to evaluate the bedrock groundwater analytical results. A summary of the bedrock groundwater sample analytical results (BMW-101 through BMW-105) is presented in **Table 7**. The bedrock monitoring well location and select results shown on **Figure 9**. A brief discussion of the results is presented below.

- PFOA was either not detected above laboratory reporting limits or detected below the Class GA Value (6.7 ng/L) in all bedrock groundwater samples.
- PFOS was either not detected above laboratory reporting limits or detected below the Class GA Value (2.7 ng/L) in all bedrock groundwater samples.
- 8:2 FTS was not detected above laboratory limits in the bedrock groundwater samples.
- TDP concentrations in bedrock groundwater samples ranged from 0.8 ng/L (duplicate for BMW-102) to 291.83 ng/L (BMW-103).

Overburden/Bedrock Aquifer Hydraulic Study

A summary of the calculated slug testing hydraulic conductivities is provided in **Table 8** and presented below.

- Overburden well horizontal hydraulic conductivities ranged from 4.9E-05 centimeters per second (cm/sec) (MW-105) to 5.8E-02 cm/sec (MW-302). The geomean hydraulic conductivity for all overburden wells ranged from 0.21 feet per day (feet/day) (MW-105) to 145 feet/day (MW-302).
- Bulk fractured bedrock well hydraulic conductivity ranged from 2.3E-06 cm/sec (BMW-104) to 2.7E-03 cm/sec (BMW-105). The geometric mean bulk hydraulic conductivity of the shallow bedrock ranged from 0.02 feet/day (BMW-104) to 6.5 feet/day (BMW-105).
- Since groundwater flow in fractured bedrock occurs through discrete fractures rather than through the solid bedrock matrix, bulk hydraulic conductivities were converted to equivalent fracture hydraulic conductivities. Equivalent fracture hydraulic conductivity is typically more appropriate for estimating groundwater seepage velocities and assessing contaminant transport within interconnected fractures. Equivalent fractured bedrock well hydraulic conductivity ranged from 2.3E-06 cm/sec (BMW-104) to 5.4E-03 cm/sec (BMW-105). The geomean equivalent fracture hydraulic conductivity for shallow bedrock ranged from 0.02 feet/day (BMW-104) to 13 feet/day (BMW-105).

Based on the one-month long deployment of dataloggers within the two bedrock monitoring wells (BMW-102 and BMW-105), three overburden monitoring wells (MW-203, MW-204, and MW-302), and the Fall Kill, the following trends were observed:

- Surrounding bedrock and overburden groundwater elevations are higher than the Fall Kill surface water elevation, indicating that the Fall Kill is a gaining stream.
- Bedrock/overburden groundwater and Fall Kill surface water elevations all rise in response to precipitation events, as observed on or about April 26, 2025 (0.97 inches of precipitation), May 4, 2025 (0.82 inches of precipitation), and May 9, 2025 (2.22 inches of precipitation). Further and in response to precipitation events, both bedrock and overburden groundwater elevations rise prior to the Fall Kill surface water elevation (see graphs provided in **Attachment 9**).
- It was generally observed that when bedrock and overburden groundwater elevations increase, the Fall Kill surface water elevation increases in response. This further supports that the surrounding and underlying aquifers are discharging into the Fall Kill.

Data Usability

The results of the data validation are summarized in the Data Usability Summary Reports (DUSRs), provided by EDS. The DUSRs are provided in **Attachment 14** and include a discussion on each qualified result, the potential bias, and the effects on data usability. In general, the surface covering and vegetation samples, vadose zone and bedrock monitoring well soil samples, packer test samples, and overburden/bedrock groundwater samples were found to be valid and usable for decision-making purposes. Qualifiers are presented on the summary analytical data tables and are documented in the DUSRs. Analytical results from equipment blanks can be found in **Table 9**.

Conclusions

Based on the Phase III RI sampling activities, the following conclusions can be made:

Ground Surface Coverings and Vegetation

- PFAS were detected in 15 of the 16 samples collected.
- Higher concentrations of PFOA and TDP were generally detected in concrete and asphalt samples collected in the fire training area.
- The highest concentration of PFOS was detected in a sample of bark and wood shavings collected from a tree located southeast of the training area (TP-107). The subject tree is adjacent to a surface water discharge pathway from the fire training area.

Vadose Zone Soil

- PFOA was detected in 22 of the 122 soil samples at concentrations above the UUSCO. The highest concentrations of PFOA were generally observed in samples collected in the eastern half of the fire training area and within the eastern wooded area. These results and observations are consistent with historical findings.
- PFOS was detected in 65 of the 122 soil samples at concentrations above the UUSCO. As with PFOA, the highest concentrations of PFOS were generally observed in samples collected in the eastern half of the fire training area and within the eastern wooded area. These results and observations are consistent with the results of historical sampling of soil in the fire training area in the central portion of the Site, south of the Jaws of Life training area.
- PFOA concentrations (ng/L) detected in TCLP extracts ranged from 6 (SB-339) to 105 (SB-337) times concentrations (ug/kg) detected in the corresponding soil samples. PFOA concentrations (ng/L) detected in SPLP extracts ranged from 6 (SB-339) to 172 (SB-337) times concentrations (ug/kg) detected in the corresponding soil samples. The ratio of extract to soil concentrations of PFOA varied widely, likely due to differing soil characteristics. As a result, a correlation between the two (totals concentrations and extract concentrations) for the purpose of predicting future leachability could not be made.
- PFOS concentrations (ng/L) detected in TCLP extracts ranged from 0.5 (SB-322) to 76 (SB-338) times concentrations (ug/kg) detected in corresponding soil samples. PFOS concentrations (ng/L) detected in SPLP extracts ranged from 4 (SB-315) to 102 (SB-338) times concentrations (ug/kg) detected in corresponding soil samples. Therefore, as with the PFOA results, a correlation between the totals concentrations and extract concentrations, for the purpose of predicting future leachability, could not be made.

Groundwater

- PFAS was not detected in the packer test samples of bedrock groundwater at concentrations above Class GA Values.
- PFAS was not detected in groundwater sample collected from the newly installed overburden and bedrock monitoring wells at concentrations above Class GA Values.
- TDP concentrations in the groundwater samples ranged from 0.83 ng/L to 291.83 ng/L. The highest concentrations were detected in bedrock monitoring well BMW-103, located southeast of the Emergency Response Office/Call-Center.
- Overburden groundwater depth ranged from 1.17 feet bgs (MW-105) to 8.43 feet bgs (MW-203) and inferred flow direction on-Site is to the southeast, in the direction of the Fall Kill. Bedrock groundwater depth ranges from 0.00 feet bgs (BMW-102) to 6.91 feet bgs (BMW-103) and inferred flow direction on-Site is to the east. Further, the vertical hydraulic gradients at the

MW-301/BMW-104 and MW-302/BMW-105 well clusters were calculated to be -0.045 and -0.027, respectively.

- Based on the results of groundwater sampling, PFOA and PFOS, historically detected at elevated concentrations in centrally located overburden monitoring wells, were not detected above SCGs in surrounding sentinel bedrock monitoring wells. This indicates that PFAS overburden groundwater impacts have not migrated to off-Site bedrock groundwater.

Hydraulic Study

- Overburden Groundwater – Calculated hydraulic conductivity varied significantly for the wells tested. Geomean hydraulic conductivities for individual wells as low as 0.21 feet per day (MW-105) and as high as 145 feet per day (MW-302) were calculated. The wide variation in calculated hydraulic conductivity is likely indicative of the differing subsurface geology and potentially also well characteristics.
- Bedrock Groundwater – As with the overburden, calculated bedrock bulk and equivalent fracture hydraulic conductivities varied significantly. Geomean hydraulic conductivities for individual wells as low as 0.02 feet per day (BMW-104) and as high as 13.1 feet per day (BMW-105) were calculated. The wide variation in calculated hydraulic conductivity is likely indicative of the variations in the characteristics of fractures across the screened intervals of each bedrock well.
- Data recorded indicates Fall Kill surface water and overburden/bedrock groundwater elevations are influenced significantly by precipitation events. As overburden and bedrock elevations increase, the Fall Kill surface water elevation increases in response, indicating that the Fall Kill is a gaining stream.

Blanding's Turtle and Tree Surveys

- Based on TRC's survey of the Site, Blanding's turtle habitat quality is marginal and generally unsuitable except perhaps for transient habitat use during seasonal movements.
- The wooded areas on either side of the Fall Kill are populated with numerous large diameter trees. During TRC's survey, 334 trees with a DBH greater than 3 inches were documented.

Next Steps

The information presented above, along with the information in the *April 2023 Phase I RI Field Activities Summary Report and August 2023 Phase II RI Field Activities Summary Report* will be consolidated and summarized in a RIR. In addition, data collected over the three phases will be combined to present

a comprehensive conceptual site model, exposure assessment, and used as the basis for a Feasibility Study.

Attachments

Table 1 Summary of Surface Covering and Vegetation Sample Analytical Results – July 2024
Table 2 Summary of Supplemental Vadose Zone Soil Analytical Results - July 2024
Table 3 Summary of Supplemental Vadose Zone Soil TCLP/SPLP Analytical Results – July 2024
Table 4 Summary of Bedrock Monitoring Well Soil Analytical Results – July and September 2024
Table 5 Summary of Open Hole Bedrock Monitoring Well Packer Test Analytical Results – November and December 2024
Table 6 Summary of Groundwater Elevation Measurements – April 2025
Table 7 Summary of Groundwater Sample Analytical Results – April 2025
Table 8 Summary of Hydraulic Conductivity Data
Table 9 Summary of Equipment Blank Analytical Results

Figure 1 Site Location Map
Figure 2 Site Layout Map
Figure 3 Phase III RI Sample Location Map
Figure 4 Phase III RI Surface Covering and Vegetation Samples – Summary of Select PFAS Results
Figure 5 Phase III RI Supplemental Vadose Zone Soil Borings – Summary of Select PFAS Results
Figure 6 Phase III RI Monitoring Well Soil Sampling – Summary of Select PFAS Results
Figure 7 Phase III RI Open Hole Bedrock Well Packer Testing – Summary of Select PFAS Results
Figure 8 Phase III RI Overburden Groundwater Sampling Results – Summary of Select PFAS Results
Figure 9 Phase III RI Bedrock Groundwater Sampling Results – Summary of Select PFAS Results

Attachment 1 Stream Gauge Installation Notes
Attachment 2 Utility Locating Survey Reports
Attachment 3 Soil Boring Logs
Attachment 4 Monitoring Well Construction Logs

Attachment 5 *February 2025 Bedrock Monitoring Well Construction Recommendations Memorandum*
Attachment 6 Packer Test Logs
Attachment 7 Low-Flow Groundwater Sampling Logs
Attachment 8 Slug Test Plots
Attachment 9 Bedrock/Overburden Groundwater and Fall Kill Surface Water Elevations over Time Graphs
Attachment 10 Land Survey Drawing
Attachment 11 Non-Hazardous Waste Manifests
Attachment 12 Turtle Habitat Assessment Report
Attachment 13 Tree Survey Summary Report
Attachment 14 Data Usability Summary Reports

Tables

Table 1
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Surface Covering and Vegetation Sample Analytical Results (July 2024)

Location:		SN-101	SN-102	SN-103		SN-104	SN-105	SN-106	SN-107	SN-108	TP-101	TP-102	TP-103	TP-104	TP-105	TP-106	TP-107
Sample ID:		DCFTC-SN-101	DCFTC-SN-102	DCFTC-SN-103	DUP-01	DCFTC-SN-104	DCFTC-SN-105	DCFTC-SN-106	DCFTC-SN-107	DCFTC-SN-108	DCFTC-TP-101	DCFTC-TP-102	DCFTC-TP-103	DCFTC-TP-104	DCFTC-TP-105	DCFTC-TP-106	DCFTC-TP-107
Sample Delivery Group:		4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061	4802216061
Sample Date:		07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024	07/02/2024
Matrix:		Asphalt	Asphalt	Asphalt	Asphalt	Asphalt	Asphalt	Concrete	Concrete	Concrete	~1.67' D - Maple	~0.96' D - Maple	~0.79' D - Oak	~1.27' D - Maple	~2.07' D - Maple	~2.07' D - Locust	~0.64' D - Willow
Analyte	**Unit**	**Results**															
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ug/kg	3.1 J	3 J	9.1 J	8.7	2.4 J	1.6 J	28	44	6.4 J	1.4 J	7.6 J	29 U	5.1 J	31 U	1.7 J	9.6 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ug/kg	1.4 J	4 J	8.7 J	9.4	1.9 J	3.3 J	1.9 J	15	2 J	0.94 J	0.69 J	29 U	0.87 J	31 U	55 U	9.9 J
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ug/kg	9.5 U	9.8 U	9.2 U	8.4 U	9 U	9.5 U	8.7 U	9.7 U	8.4 U	28 U	24 U	29 U	26 U	31 U	55 U	45 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ug/kg	9.5 U	9.8 U	9.2 U	8.4 U	9 U	9.5 U	8.7 U	9.7 U	8.4 U	28 U	24 U	29 U	26 U	31 U	55 U	45 U
Perfluorobutane sulfonic acid (PFBS)	ug/kg	0.95 U	0.62 J	0.18 J	0.18 J	0.21 J	0.33 J	0.35 J	1.8	0.65 J	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluorobutanoic acid (PFBA)	ug/kg	2.4 U	2.4 U	2.3 U	2.1 U	2.2 U	2.4 U	2.2 U	2.5	1.4 J	7.1 UJ	6 UJ	7.3 U	6.5 U	7.7 U	14 U	11 U
Perfluorodecane sulfonic acid (PFDS)	ug/kg	0.95 U	0.98 U	0.18 J	0.23 J	0.9 U	0.23 J	0.87 U	0.97 U	0.84 U	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluorodecanoic acid (PFDA)	ug/kg	0.95 U	0.14 J	0.77 J	0.87	0.15 J	0.41 J	0.87 U	1.4	0.84 U	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	1.6 J
Perfluorododecanoic acid (PFDoA)	ug/kg	0.95 U	0.98 U	0.95	1	0.25 J	0.66 J	0.87 U	1.8	0.84 U	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	0.95 U	0.56 J	0.76 J	0.81 J	0.18 J	1.3	0.87 U	0.31 J	0.84 U	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.95 U	0.46 J	0.73 J	0.77 J	0.56 J	0.28 J	0.62 J	3.2	0.38 J	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluorohexane sulfonic acid (PFHxS)	ug/kg	0.95 U	5.2	3.8	3.9	1.6	7.9	1.3	6.7	0.68 J	0.87 J	1.2 J	2.9 U	1.4 J	3.1 U	5.5 U	3.6 J
Perfluorohexanoic acid (PFHxA)	ug/kg	0.22 J	1	1.1	1.1	0.82 J	1	9.1	21	3.3	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluorononanoic acid (PFNA)	ug/kg	0.95 U	0.15 J	0.45 J	0.45 J	0.16 J	0.14 J	2.9 J	2	0.84 U	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	1.4 J
Perfluorooctane sulfonamide (PFOSA)	ug/kg	0.95 U	0.35 J	2.3	2.2	0.16 J	0.91 J	0.87 U	0.41 J	0.84 U	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluorooctane sulfonic acid (PFOS)	ug/kg	0.95 U	35	82	95	22	150	1.1	15	0.84 U	8.7	8.2	2.9 U	10	2.9 J	5.5 U	130
Perfluorooctanoic acid (PFOA)	ug/kg	0.95 U	1.1	1.5	1.7	0.36 J	0.78 J	2.6	6.9	0.57 J	2.8 U	2.4 U	2.9 U	0.5 J	3.1 U	5.5 U	4.5 U
Perfluoropentanoic acid (PFPeA)	ug/kg	0.95 U	0.51 J	0.94	0.94	0.35 J	0.4 J	0.95	4.5	3.5	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluorotetradecanoic acid (PFTA)	ug/kg	0.95 U	0.98 U	0.73 J	0.82 J	0.29 J	1.4	0.87 U	1.8	0.84 U	2.8 UJ	2.4 UJ	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluorotridecanoic acid (PFTrDA)	ug/kg	0.95 U	0.98 U	0.36 J	0.44 J	0.14 J	0.38 J	0.87 U	1.3	0.84 U	2.8 UJ	2.4 UJ	2.9 U	2.6 U	3.1 U	5.5 U	4.5 U
Perfluoroundecanoic acid (PFUnA)	ug/kg	0.95 U	0.98 U	0.51 J	0.6 J	0.15 J	0.18 J	0.87 U	1.6	0.84 U	2.8 U	2.4 U	2.9 U	2.6 U	3.1 U	5.5 U	2.2 J
Total Detected PFAS (TDP)	ug/kg	4.72	52.09	115.06	129.11	31.68	171.2	48.82	131.22	18.88	11.91	17.69	--	17.87	2.9	1.7	158.3

Notes
Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.
No New York State Department of Environmental Conservation Standards, Guidance, and Criteria exist for asphalt, concrete, or vegetation.

D - Diameter
feet bgs - Feet below ground surface.
J - Estimated value.
PFAS - Per- and polyfluoroalkyl substances.
ug/kg - micrograms per kilogram (dry weight).
U - Analyte was not detected at specified quantitation limit.
UJ - Estimated not detected.

Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

Location:							SB-301				SB-302					SB-303				SB-304
Sample ID:							DCFTC-SB-301 (0-0.5)	DCFTC-SB-301 (0.5-1.5)	DCFTC-SB-301 (1.5-4)	DCFTC-SB-301 (4-6)	DCFTC-SB-302 (0-0.5)	DCFTC-SB-302 (0.5-1.5)	DCFTC-SB-302 (1.5-4)	DCFTC-DUP-1	DCFTC-SB-302 (4-6)	DCFTC-SB-303 (0-0.5)	DCFTC-SB-303 (0.5-1.5)	DCFTC-SB-303 (1.5-4)	DCFTC-SB-303 (4-6)	DCFTC-SB-304 (0-0.5)
Sample Delivery Group:							4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
Sample Date:							07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024
Sample Depth (feet bgs):							0 - 0.5	0.5 - 1.5	1.5 - 4	4 - 6	0 - 0.5	0.5 - 1.5	1.5 - 4	1.5 - 4	4 - 6	0 - 0.5	0.5 - 1.5	1.5 - 4	4 - 6	0 - 0.5
Analyte	**UUSCO**	RESCO	RRSCO	CUSCO	IUSCO	**Unit**	**Results**													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	2 U	2.1 U	2.2 U	2.2 U	2 U	2.1 U	2.1 U	2.2 U	2.2 U	2 U	2.1 U	2.3 U	2.2 U	2.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	2 U	2.1 U	2.2 U	2.2 U	2 U	2.1 U	2.1 U	2.2 U	0.24 J	0.19 J	0.19 J	2.3 U	2.2 U	2.2 U
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2 U	2.1 U	2.2 U	2.2 U	2 U	2.1 U	2.1 U	2.2 U	2.2 U	2 U	2.1 U	2.3 U	2.2 U	2.2 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2 U	2.1 U	2.2 U	2.2 U	2 U	2.1 U	2.1 U	2.2 U	2.2 U	2 U	2.1 U	2.3 U	2.2 U	2.2 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.23 U	0.22 U	0.22 U
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.5 U	0.52 U	0.56 U	0.55 U	0.51 U	0.52 U	0.52 U	0.55 U	0.55 U	0.51 U	0.53 U	0.58 U	0.55 U	0.55 U
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.23 U	0.22 U	0.22 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.066 J	0.075 J	0.23 U	0.22 U	0.22 U
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.24	0.23	0.23 U	0.22 U	0.22 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.23 U	0.22 U	0.22 U
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.047 J	0.044 J	0.23 U	0.22 U	0.086 J
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.23 U	0.22 U	0.22 U
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.037 J	0.21 U	0.23 U	0.22 U	0.13 J
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.036 J	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.029 J	0.21 U	0.23 U	0.22 U	0.03 J
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 UJ	0.2 U	0.21 U	0.21 U	0.22 U	0.22 UJ	0.2 U	0.21 U	0.23 U	0.22 U	0.22 U
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.21	0.22	0.23 U	0.22 U	0.22 U
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.2 U	0.21 U	0.22 U	0.046 J	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.2 U	0.05 J	0.23 U	0.22 U	0.1 J
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.056 J	0.077 J	0.23 U	0.22 U	0.2 J
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.21	0.19 J	0.23 U	0.22 U	0.22 UJ
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.1 J	0.091 J	0.23 U	0.22 U	0.22 UJ
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.22 U	0.2 U	0.21 U	0.21 U	0.22 U	0.22 U	0.082 J	0.067 J	0.23 U	0.22 U	0.22 U
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	--	--	--	0.082	--	--	--	--	0.24	1.267	1.234	--	--	0.546

Notes

Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

feet bgs - Feet below ground surface.
NC - No criteria.
ug/kg - micrograms per kilogram (dry weight).
PFAS - Per- and polyfluoroalkyl substances.
J - Estimated value.
U - Analyte was not detected at specified quantitation limit.
UJ - Estimated not detected.

NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objective.
UUSCO - NYSDEC Unrestricted Use SCO
RESCO - NYSDEC Residential Use SCO
RRSCO - NYSDEC Restricted-Residential Use SCO
CUSCO - NYSDEC Commercial Use SCO
IUSCO - NYSDEC Industrial Use SCO

Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

Location:							SB-304			SB-305				SB-306			SB-307			SB-308
Sample ID:							DCFTC-SB-304 (0.5-1.5)	DCFTC-SB-304 (1.5-4)	DCFTC-SB-304 (4-6)	DCFTC-SB-305 (0-0.5)	DCFTC-SB-305 (0.5-1.5)	DCFTC-SB-305 (1.5-4)	DCFTC-SB-305 (4-5)	DCFTC-SB-306 (0-0.5)	DCFTC-SB-306 (0.5-1.5)	DCFTC-SB-306 (1.5-4)	DCFTC-SB-307 (0-0.5)	DCFTC-SB-307 (0.5-1.5)	DCFTC-SB-307 (1.5-4)	DCFTC-SB-308 (0-0.5)
Sample Delivery Group:							4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
Sample Date:							07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024
Sample Depth (feet bgs):							0.5 - 1.5	1.5 - 4	4 - 6	0 - 0.5	0.5 - 1.5	1.5 - 4	4 - 5	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5
Analyte	**UUSCO**	RESCO	RRSCO	CUSCO	IUSCO	**Unit**	**Results**													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	2.2 U	2.2 U	2.1 U	0.19 J	0.27 J	2.2 U	0.12 J	2 U	2 U	2.1 U	2 U	2.1 U	2.2 U	0.21 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	2.2 U	2.2 U	2.1 U	6.9	5.9	0.96 J	1.8 J	2 U	2 U	2.1 U	2 U	2.1 U	0.084 J	0.1 J
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.2 U	2.2 U	2.1 U	2 U	2.2 U	2.2 U	2.1 U	2 U	2 U	2.1 U	2 U	2.1 U	2.2 U	2 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.2 U	2.2 U	2.1 U	2 U	2.2 U	2.2 U	2.1 U	2 U	2 U	2.1 U	2 U	2.1 U	2.2 U	2 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 U	0.2 U	0.22 U	0.22 U	0.21 U	0.031 J	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	0.027 J
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.55 U	0.55 U	0.53 U	0.5 U	0.54 U	0.55 U	0.53 U	0.5 U	0.5 U	0.53 U	0.5 U	0.51 U	0.56 U	0.49 U
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 U	0.2 U	0.22 U	0.22 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	0.2 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.031 J	0.2 U	0.22 U	0.065 J	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.05 J	0.3
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 U	0.031 J	0.035 J	0.22 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	0.2 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 U	0.2 U	0.22 U	0.22 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	0.2 U
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.051 J	0.039 J	0.21 U	0.12 J	0.16 J	0.084 J	0.084 J	0.041 J	0.032 J	0.21 U	0.2 U	0.21 U	0.04 J	0.052 J
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 U	0.2 U	0.22 U	0.22 U	0.21 U	0.21	0.15 J	0.21 U	0.2 U	0.21 U	0.07 J	0.15 J
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.055 J	0.054 J	0.21 U	0.082 J	0.11 J	0.22 U	0.051 J	0.059 J	0.041 J	0.21 U	0.2 U	0.21 U	0.22 U	0.07 J
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.03 J	0.22 U	0.21 U	0.2 U	0.22 U	0.11 J	0.039 J	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.05 J	0.069 J
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 U	0.2 U	0.22 U	0.22 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	0.2 U
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	0.22 U	0.22 U	0.21 U	0.2 U	0.22 U	0.22 U	0.21 U	0.67	0.55	0.21 U	0.11 J	0.11 J	0.49	**2.8**
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.052 J	0.22 U	0.21 U	0.065 J	0.088 J	0.082 J	0.061 J	0.14 J	0.11 J	0.21 U	0.2 U	0.21 U	0.22 U	0.046 J
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	0.076 J	0.12 J	0.12 J	0.14 J	0.15 J	0.22 U	0.071 J	0.071 J	0.063 J	0.21 U	0.2 U	0.21 U	0.22 U	0.083 J
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 UJ	0.2 U	0.22 U	0.22 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	0.2 U
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 UJ	0.2 U	0.22 U	0.22 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	0.2 U
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	0.22 U	0.22 U	0.21 U	0.2 U	0.22 U	0.22 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U	0.22 U	0.033 J
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	0.264	0.213	0.151	7.528	6.713	1.301	2.226	1.222	0.946	--	0.11	0.11	0.784	3.94

Notes

Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

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NC - No criteria.
ug/kg - micrograms per kilogram (dry weight).
PFAS - Per- and polyfluoroalkyl substances.
J - Estimated value.
U - Analyte was not detected at specified quantitation limit.
UJ - Estimated not detected.

NYSDEC - New York State Department of Environmental Conservation
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UUSCO - NYSDEC Unrestricted Use SCO
RESCO - NYSDEC Residential Use SCO
RRSCO - NYSDEC Restricted-Residential Use SCO
CUSCO - NYSDEC Commercial Use SCO
IUSCO - NYSDEC Industrial Use SCO

Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

Location:							SB-308		SB-309				SB-310				SB-311			
Sample ID:							DCFTC-SB-308 (0.5-1.5)	DCFTC-SB-308 (1.5-4)	DCFTC-SB-309 (0-0.5)	DCFTC-SB-309 (0.5-1.5)	DCFTC-SB-309 (1.5-4)	DCFTC-SB-309 (4-5)	DCFTC-SB-310 (0-0.5)	DCFTC-SB-310 (0.5-1.5)	DCFTC-SB-310 (1.5-4)	DCFTC-SB-310 (4-6)	DCFTC-SB-311 (0-0.5)	DCFTC-SB-311 (0.5-1.5)	DCFTC-SB-311 (1.5-4)	DCFTC-SB-311 (4-5)
Sample Delivery Group:							4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
Sample Date:							07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024
Sample Depth (feet bgs):							0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	4 - 5	0 - 0.5	0.5 - 1.5	1.5 - 4	4 - 6	0 - 0.5	0.5 - 1.5	1.5 - 4	4 - 5
Analyte	**UUSCO**	**RESCO**	**RRSCO**	**CUSCO**	**IUSCO**	**Unit**	**Results**													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	0.14 J	2.4 U	2.1 U	2 U	0.16 J	2.2 U	2 U	0.089 J	2.2 U	2.1 U	2.2 U	2.1 U	2.2 U	2.1 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	0.059 J	2.4 U	0.33 J	0.26 J	0.92 J	0.1 J	1.3 J	2.4	2.2 U	2.1 U	2.2 U	2.1 U	2.2 U	0.14 J
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	2.4 U	2.1 U	2 U	2.2 U	2.2 U	2 U	2 U	2.2 U	2.1 U	2.2 U	2.1 U	2.2 U	2.1 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	2.4 U	2.1 U	2 U	2.2 U	2.2 U	2 U	2 U	2.2 U	2.1 U	2.2 U	2.1 U	2.2 U	2.1 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.24 U	0.21 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.22 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.52 U	0.59 U	0.53 U	0.51 U	0.56 U	0.54 U	0.51 U	0.5 U	0.55 U	0.52 U	0.54 U	0.51 U	0.55 U	0.52 U
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.24 U	0.21 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.22 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.61	0.24 U	0.11 J	0.083 J	0.064 J	0.097 J	0.2 U	0.2 U	0.22 U	0.21 U	0.073 J	0.047 J	0.22 U	0.21 U
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.24 U	0.21 U	0.2 U	0.22 U	0.22 U	0.2 U	0.042 J	0.22 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.24 U	0.21 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.22 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.1 J	0.091 J	0.043 J	0.039 J	0.061 J	0.035 J	0.031 J	0.046 J	0.041 J	0.032 J	0.04 J	0.05 J	0.22 U	0.21 U
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	0.13 J	0.083 J	0.052 J	0.044 J	0.22 U	0.22 U	0.2 U	0.2 U	0.053 J	0.059 J	0.084 J	0.082 J	0.22 U	0.21 U
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.075 J	0.067 J	0.046 J	0.039 J	0.048 J	0.038 J	0.035 J	0.037 J	0.22 U	0.21 U	0.046 J	0.21 U	0.22 U	0.21 U
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.16 J	0.24	0.033 J	0.039 J	0.22 U	0.03 J	0.2 U	0.034 J	0.22 U	0.21 U	0.038 J	0.21 U	0.077 J	0.035 J
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.24 U	0.21 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.22 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	**6.2**	**8.4**	0.35	0.33	0.22 U	0.16 J	0.1 J	0.096 J	0.22 J	0.42	**1.8**	**1.6**	0.58	0.16 J
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.1 J	0.073 J	0.051 J	0.06 J	0.22 U	0.22 U	0.2 U	0.037 J	0.048 J	0.21 U	0.22 U	0.21 U	0.052 J	0.21 U
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	0.079 J	0.087 J	0.21 U	0.2 U	0.22 U	0.22 U	0.2 U	0.079 J	0.22 U	0.21 U	0.22 U	0.069 J	0.22 U	0.21 U
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.24 U	0.21 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.22 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.24 U	0.21 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.22 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.24 U	0.21 U	0.2 U	0.056 J	0.22 U	0.2 U	0.2 U	0.22 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	7.653	9.041	1.015	0.894	1.309	0.46	1.466	2.86	0.362	0.511	2.081	1.848	0.709	0.335

Notes

Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

feet bgs - Feet below ground surface.
NC - No criteria.
ug/kg - micrograms per kilogram (dry weight).
PFAS - Per- and polyfluoroalkyl substances.
J - Estimated value.
U - Analyte was not detected at specified quantitation limit.
UJ - Estimated not detected.

NYSDEC - New York State Department of Environmental Conservation
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RRSCO - NYSDEC Restricted-Residential Use SCO
CUSCO - NYSDEC Commercial Use SCO
IUSCO - NYSDEC Industrial Use SCO

Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

Location:							SB-312				SB-313				SB-314			SB-315		
Sample ID:							DCFTC-SB-312 (0-0.5)	DCFTC-SB-312 (0.5-1.5)	DCFTC-SB-312 (1.5-4)	DCFTC-SB-312 (4-6)	DCFTC-SB-313 (0-0.5)	DCFTC-SB-313 (0.5-1.5)	DCFTC-SB-313 (0.5-4)	DCFTC-SB-313 (4-6)	DCFTC-SB-314 (0-0.5)	DCFTC-SB-314 (0.5-1.5)	DCFTC-SB-314 (1.5-4)	DCFTC-SB-315 (0-0.5)	DCFTC-SB-315 (0.5-1.5)	DCFTC-SB-315 (1.5-4)
Sample Delivery Group:							4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
Sample Date:							07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024
Sample Depth (feet bgs):							0 - 0.5	0.5 - 1.5	1.5 - 4	4 - 6	0 - 0.5	0.5 - 1.5	1.5 - 4	4 - 6	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4
Analyte	**UUSCO**	RESCO	RRSCO	CUSCO	IUSCO	**Unit**	**Results**													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	0.38 J	0.26 J	2.2 U	0.095 J	2 U	2 U	2.2 U	2.1 U	0.22 J	0.23 J	2.2 U	0.87 J	0.62 J	0.22 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	2.3	1.4 J	2.2 U	0.56 J	0.076 J	0.064 J	2.2 U	0.087 J	0.94 J	1 J	2.2 U	0.24 J	0.31 J	2.2 U
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2 U	2.1 U	2.2 U	2.1 U	2 U	2 U	2.2 U	2.1 U	2.1 U	2 U	2.2 U	2.1 U	2.2 U	2.2 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2 U	2.1 U	2.2 U	2.1 U	2 U	2 U	2.2 U	2.1 U	2.1 U	2 U	2.2 U	2.1 U	2.2 U	2.2 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.22 U	0.21 U	0.22 U	0.22 U
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.51 U	0.53 U	0.54 U	0.54 U	0.51 U	0.51 U	0.54 U	0.52 U	0.52 U	0.51 U	0.56 U	0.46 J	0.64	0.55 U
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.22 U	0.21 U	0.22 U	0.22 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.11 J	0.11 J	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.32 J	0.15 J	0.076 J	0.69	1.3	0.22 U
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.11 J	0.09 J	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.22 U	0.88	1.4	0.22 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.22 U	0.21 U	0.22 U	0.22 U
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.12 J	0.12 J	0.22 U	0.039 J	0.2 U	0.2 U	0.044 J	0.21 U	0.28	0.29	0.15 J	0.35	0.56	0.17 J
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.43	0.46	0.068 J	0.6	0.38	0.37
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.13 J	0.12 J	0.22 U	0.038 J	0.2 U	0.2 U	0.22 U	0.21 U	0.18 J	0.19 J	0.097 J	0.5	0.7	0.17 J
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.052 J	0.05 J	0.22 U	0.21 U	0.2 U	0.2 U	0.039 J	0.21 U	0.68 J	0.73 J	0.2 J	0.38	0.71	0.23
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.21 U	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.045 J	0.048 J	0.22 U	0.21 U	0.22 U	0.22 U
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	0.14 J	0.14 J	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	**6.4**	**7**	**1.5**	**1**	**1.3**	0.54
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.099 J	0.091 J	0.22 U	0.21 U	0.2 U	0.2 U	0.078 J	0.21 U	0.24	0.25	0.09 J	0.39	0.63	0.19 J
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	0.18 J	0.16 J	0.22 U	0.074 J	0.2 U	0.057 J	0.22 U	0.21 U	0.27	0.24	0.13 J	0.91	1.3	0.32
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.097 J	0.1 J	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.22 U	0.38	0.47	0.22 UJ
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.039 J	0.035 J	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.22 U	0.87	1.3	0.22 UJ
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	0.2 U	0.034 J	0.22 U	0.21 U	0.2 U	0.2 U	0.22 U	0.21 U	0.21 U	0.2 U	0.22 U	1.4	2.4	0.22 U
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	3.757	2.71	--	0.806	0.076	0.121	0.161	0.087	10.005	10.588	2.311	9.92	14.02	2.21

Notes

Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

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Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

							Location:	SB-315	SB-316			SB-317			SB-318			SB-319			SB-320
							Sample ID:	DCFTC-DUP-2	DCFTC-SB-316 (0-0.5)	DCFTC-SB-316 (0.5-1.5)	DCFTC-SB-316 (1.5-4)	DCFTC-SB-317 (0-0.5)	DCFTC-SB-317 (0.5-1.5)	DCFTC-SB-317 (1.5-4)	DCFTC-SB-318 (0-0.5)	DCFTC-SB-318 (0.5-1.5)	DCFTC-SB-318 (1.5-4)	DCFTC-SB-319 (0-0.5)	DCFTC-SB-319 (0.5-1.5)	DCFTC-SB-319 (1.5-4)	DCFTC-SB-320 (0-0.5)
							Sample Delivery Group:	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
							Sample Date:	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024
							Sample Depth (feet bgs):	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5
Analyte	**UUSCO**	RESCO	RRSCO	CUSCO	IUSCO	**Unit**	**Results**														
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	0.23 J	0.85 J	1.1 J	1.3 J	19	29	12	0.34 J	0.42 J	19	0.35 J	0.22 J	3	2 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	2.3 U	2 J	6.2	5.6	21	57	0.061 J	0.43 J	0.56 J	2.3 U	0.26 J	0.23 J	2.8	2.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.3 U	2.3 U	2.1 U	2.8 U	2 U	2 U	2.3 U	2 U	2.1 U	2.3 U	2.1 U	2.1 U	2.3 U	2.1 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.3 U	2.3 U	2.1 U	2.8 U	2 U	2 U	2.3 U	2 U	2.1 U	2.3 U	2.1 U	2.1 U	2.3 U	2.1 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.23 U	0.064 J	0.037 J	0.28 U	0.03 J	0.2 U	0.053 J	0.12 J	0.15 J	0.23 U	0.21 U	0.21 U	0.051 J	0.2 J
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.57 U	0.49 J	0.31 J	0.69 U	0.41 J	0.65	0.72	0.51 U	0.52 U	0.52 J	0.53 U	0.53 U	0.57 U	0.52 U
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.23 U	0.64	0.84	0.28 U	0.2 U	0.029 J	0.23 U	0.13 J	0.11 J	0.23 U	0.21 U	0.21 U	0.23 U	0.21 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.23 U	3.5	1.9	0.61	0.22	0.38	0.23 U	0.28	0.29	0.23 U	0.058 J	0.062 J	0.91	0.034 J
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.23 U	5.6	14	0.28 U	0.091 J	0.084 J	0.23 U	0.27	0.3	0.23 U	0.21 U	0.21 U	0.066 J	0.031 J
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.23 U	0.055 J	0.037 J	0.17 J	0.49 J	0.052 J	2.4	0.66	0.59	0.81	0.21 U	0.044 J	0.21 J	0.24
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.12 J	0.93	0.58	0.28	0.62	0.68	1.1	0.25	0.23	0.64	0.072 J	0.079 J	0.35	0.18 J
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	0.48	0.96	0.56	0.69	0.44	0.25	3.7	4.2	3.7	0.66	0.18 J	0.25	1.6	2.3
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.2 J	0.77	0.47	0.23 J	1.3	1.8	3	0.41	0.41	1.7	0.075 J	0.081 J	0.31	0.48
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.32	1.6	0.54	1.1	0.23	0.25	5.7 J	0.19 J	0.17 J	1.7	0.16 J	0.22	0.95	0.052 J
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.23 U	0.19 J	0.16 J	0.1 J	0.23	0.24	0.23 U	0.053 J	0.044 J	0.23 U	0.21 U	0.21 U	0.43	0.074 J
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	0.29	**19**	**15**	**44**	**8.7**	**6.8**	**26**	**83**	**71**	**13**	**2.2**	**2.8**	**24**	**18**
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.18 J	**1.1**	**0.67**	0.49	**1.2**	**1.4**	**2.4**	0.26	0.25	**1.3**	0.087 J	0.14 J	0.56	0.4
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	0.34	0.9	0.59	0.23 J	1.9	2.5	2.7	0.29	0.29	2.3	0.13 J	0.13 J	0.4	0.29
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.23 U	2.2	7.1	0.28 U	0.033 J	0.031 J	0.23 U	0.15 J	0.16 J	0.23 U	0.21 U	0.21 U	0.23 U	0.21 U
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.23 U	7.4	20	0.28 U	0.1 J	0.2	0.23 U	0.093 J	0.12 J	0.23 U	0.21 U	0.21 U	0.12 J	0.21 U
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	0.23 U	8.3	8.8	0.28 U	0.16 J	0.2	0.23 U	0.16 J	0.16 J	0.23 U	0.21 U	0.21 U	4.6	0.21 U
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	2.16	56.549	78.894	54.8	56.154	101.546	59.834	91.286	78.954	41.63	3.572	4.256	40.357	26.381

Notes

Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

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Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

Location:							SB-320			SB-321				SB-322		SB-323	SB-324		SB-325	
Sample ID:							DCFTC-SB-320 (0.5-1.5)	DCFTC-SB-320 (1.5-4)	DCFTC-DUP-3	DCFTC-SB-321 (0-0.5)	DCFTC-SB-321 (0.5-1.5)	DCFTC-SB-321 (1.5-4)	DCFTC-DUP-4	DCFTC-SB-322 (0-0.5)	DCFTC-SB-322 (0.5-1.5)	DCFTC-SB-323 (0-0.5)	DCFTC-SB-324 (0-0.5)	DCFTC-SB-324 (0.5-1.5)	DCFTC-SB-325 (0-0.5)	DCFTC-SB-325 (0.5-1.5)
Sample Delivery Group:							4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
Sample Date:							07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/23/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024
Sample Depth (feet bgs):							0.5 - 1.5	1.5 - 4	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	1.5 - 4	0 - 0.5	0.5 - 1.5	0 - 0.5	0 - 0.5	0.5 - 1.5	0 - 0.5	0.5 - 1.5
Analyte	**UUSCO**	RESCO	RRSCO	CUSCO	IUSCO	**Unit**	**Results**													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	1.6 J	2.6 U	1.3 J	3.4	19	11 J	4.7 J	1.4 J	2.6 J	7	1.5 J	3	2.3 U	2.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	2 J	0.058 J	1.7 J	22	3.9	100 J	23 J	7.6	13	28	0.92 J	7.3	0.092 J	0.054 J
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	2.6 U	3.5 U	2.1 U	2.3 U	33 U	2.5 U	5 U	4.9 U	0.22 J	2.6 U	2.3 U	2.3 U	2.2 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	2.6 U	3.5 U	2.1 U	2.3 U	33 U	2.5 U	5 U	4.9 U	3.7 U	2.6 U	2.3 U	2.3 U	2.2 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.14 J	0.26 U	0.076 J	0.036 J	0.073 J	3.3 U	0.055 J	0.65	0.73	0.37 U	0.6	0.082 J	0.055 J	0.037 J
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.52 U	0.64 U	0.88 U	0.53 U	0.57 U	8.2 U	0.62 U	11	7.7	0.72 J	2.8	0.74	0.99	1.3
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.26 U	0.35 U	0.21 U	0.23 U	3.3 U	0.097 J	3.3	3.6	2.8 J	0.15 J	0.026 J	0.032 J	0.22 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.04 J	0.26 U	0.35 U	0.26	0.043 J	8.2 J	3.4 J	31	30	1.9	1.9	1.9	0.27	0.22
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.04 J	0.26 U	0.35 U	0.21 U	0.23 U	3.3 U	0.042 J	24	25	0.3 J	0.37	0.046 J	0.1 J	0.059 J
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.32	0.26 U	0.4	0.27	0.93	5.9 J	0.43 J	1.1	1.7	1.8	0.57	0.28	0.029 J	0.22 U
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.16 J	0.26 U	0.23 J	0.35	0.91	2.5 J	0.57	14	13	1.3	4.1	1	0.17 J	0.23
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	1.8	1.6 J	3.8 J	0.65	4	14 J	1.7 J	12	19	3.6	7.7	1.9	0.38	0.42
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.36	0.045 J	0.23 J	0.22	0.32	1.4 J	0.45	8.2	6.6	1.7	6.2	1.2	0.27	0.33
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.049 J	0.16 J	2.6 J	0.67	2.6	22 J	2.1 J	19	19	8.9	3.9	2.5	0.38	0.49
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.058 J	0.26 U	0.2 J	0.21 U	0.23 U	0.99 J	0.77	0.67	1.1	2.2	0.34	0.6	0.23 U	0.22 U
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	**26**	0.6 J	**93 J**	**29**	**13**	**2,000 J**	**180 J**	**190**	**240**	**430**	**200**	**110**	**25**	**33**
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.32	0.084 J	**0.97**	**0.98**	**5.6**	**8.4 J**	**1.3 J**	**16**	**15**	**3**	**3.8**	**2.2**	0.16 J	0.22
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	0.21	0.077 J	0.26 J	0.32	0.42	1.4 J	0.53	24	18	2.9	12	2.5	1.6	2.1
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.26 U	0.35 U	0.21 U	0.23 U	3.3 U	0.25 U	11	11	0.37 UJ	0.41	0.032 J	0.033 J	0.041 J
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.26 U	0.35 U	0.21 U	0.23 U	3.3 U	0.04 J	45	54	4 J	0.26 U	0.29	0.75	0.53
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	0.08 J	0.26 U	0.81	0.037 J	0.23 U	7.1 J	8.6	73	73	11	7.1	7.5	2.4	1.6
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	33.177	2.624	105.576	58.193	50.796	2,182.89	227.784	492.92	554.03	511.34	254.36	143.096	32.711	40.631

Notes

Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

feet bgs - Feet below ground surface.
NC - No criteria.
ug/kg - micrograms per kilogram (dry weight).
PFAS - Per- and polyfluoroalkyl substances.
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CUSCO - NYSDEC Commercial Use SCO
IUSCO - NYSDEC Industrial Use SCO

Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

Location:							SB-325	SB-326	SB-327	SB-328		SB-329			SB-330			SB-331	SB-332	SB-333
Sample ID:							DCFTC-SB-325 (1.5-2.5)	DCFTC-SB-326 (0-0.5)	DCFTC-SB-327 (0-0.5)	DCFTC-SB-328 (0-0.5)	DCFTC-DUP-05	DCFTC-SB-329 (0-0.5)	DCFTC-SB-329 (0.5-1.5)	DCFTC-SB-329 (1.5-2)	DCFTC-SB-330 (0-0.5)	DCFTC-SB-330 (0.5-1.5)	DCFTC-SB-330 (1.5-3)	DCFTC-SB-331 (0-0.5)	DCFTC-SB-332 (0-0.5)	DCFTC-SB-333 (0-0.5)
Sample Delivery Group:							4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
Sample Date:							07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024
Sample Depth (feet bgs):							1.5 - 2.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0.5 - 1.5	1.5 - 2	0 - 0.5	0.5 - 1.5	1.5 - 3	0 - 0.5	0 - 0.5	0 - 0.5
Analyte	**UUSCO**	**RESCO**	**RRSCO**	**CUSCO**	**IUSCO**	**Unit**	**Results**													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	0.067 J	1.1 J	1.7 J	1.5 J	2.3 J	2.4 U	2.3 U	3.1 U	2.4 U	2.3 U	2.4 U	0.76 J	2.9 U	0.23 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	2.1 U	0.69 J	1.3 J	1.7 J	2.4 J	0.15 J	0.12 J	0.064 J	0.17 J	0.17 J	0.095 J	17	0.065 J	0.17 J
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	3.7 U	3.2 U	3.1 U	3 U	2.4 U	2.3 U	3.1 U	2.4 U	2.3 U	2.4 U	8.5 U	2.9 U	2 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	3.7 U	3.2 U	3.1 U	3 U	2.4 U	2.3 U	3.1 U	2.4 U	2.3 U	2.4 U	8.5 U	2.9 U	2 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.13 J	0.37 U	0.079 J	0.11 J	0.12 J	0.24 U	0.23 U	0.31 U	0.24 U	0.23 U	0.24 U	0.85 U	0.29 U	0.029 J
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.66	0.93 U	0.54 J	0.46 J	0.5 J	0.96	1.2	1.9	0.77	0.87	0.84	0.8 J	0.77	0.51 U
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.37 U	0.21 J	0.38	0.6	0.084 J	0.087 J	0.087 J	0.24 U	0.23 U	0.24 U	0.26 J	0.29 U	0.2 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.24	0.6	0.95	1.6	1.9	0.2 J	0.2 J	0.31	0.27	0.27	0.28	3.9	0.32	0.2 U
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.37 U	0.28 J	0.62	1.3	0.21 J	0.24 J	0.31 U	0.13 J	0.13 J	0.12 J	0.85 U	0.07 J	0.2 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.17 J	0.37	0.61	0.96	1.4	0.24 U	0.23 U	0.31 U	0.24 U	0.23 U	0.24 U	0.35 J	0.29 U	0.2 U
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.42	0.44	1.5	2	2.4	0.2 J	0.24	0.36	0.29	0.3	0.29	1.5	0.58	0.26
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	1.3	1.7	3.3	5.7	8	0.3	0.34	0.4	0.17 J	0.21 J	0.2 J	2.8	0.65	0.32
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.92	0.54	1.5	1.6	1.9	0.25	0.31	0.59	0.32	0.38	0.34	1.9	0.76	0.29
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.67	1.7	3.8	6.1	7.6	0.35	0.35	0.48	0.51	0.58	0.55	4.1	0.79	0.48
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.061 J	0.56	0.68	0.71	0.24 U	0.23 U	0.31 U	0.24 U	0.23 U	0.24 U	2.9	0.29 U	0.2 U
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	**61**	**98**	**110**	**140**	**190**	**5.9**	**6.3**	**13**	**3.6**	**4**	**3.7**	**130**	**16 J**	**2.9**
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.32	**0.93**	**2.6**	**3.8**	**5.2**	0.31	0.37	0.39	0.46	0.51	0.53	**2.6**	0.63	0.19 J
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	2.1	0.76	2.2	2.3 J	2.7	1.3	1.8	2.8	1.3	1.5	1.5	2.2	1.9	0.38
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.37 U	0.049 J	0.13 J	0.41	0.14 J	0.086 J	0.056 J	0.049 J	0.049 J	0.071 J	0.4 J	0.29 U	0.2 U
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.16 J	0.37 U	3.4	7.5 J	7.8	2.6	2.4	2	0.47	0.57	0.43	0.85 U	0.23 J	0.2 U
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	1.3	2	7.1	22	32	3.8	4.3	7.5	0.72	0.71	0.74	0.85 U	0.29 U	0.2 U
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	69.457	108.891	141.678	199.14	269.24	16.754	18.343	29.937	9.229	10.249	9.686	171.47	22.765	5.249

Notes

Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

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NC - No criteria.
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Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

Location:							SB-333		SB-334			SB-335			SB-336			SB-337		
Sample ID:							DCFTC-SB-333 (0.5-1.5)	DCFTC-SB-333 (1.5-3)	DCFTC-SB-334 (0-0.5)	DCFTC-SB-334 (0.5-1.5)	DCFTC-SB-334 (1.5-4)	DCFTC-SB-335 (0-0.5)	DCFTC-SB-335 (0.5-1.5)	DCFTC-SB-335 (1.5-4)	DCFTC-SB-336 (0-0.5)	DCFTC-SB-336 (0.5-1.5)	DCFTC-SB-336 (1.5-4)	DCFTC-SB-337 (0-0.5)	DCFTC-SB-337 (0.5-1.5)	DCFTC-SB-337 (1.5-4)
Sample Delivery Group:							4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
Sample Date:							07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024
Sample Depth (feet bgs):							0.5 - 1.5	1.5 - 3	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 4
Analyte	**UUSCO**	RESCO	RRSCO	CUSCO	IUSCO	**Unit**	**Results**													
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	0.26 J	0.48 J	0.077 J	0.074 J	0.39 J	2.1 U	2.2 U	2.4 U	2.1 U	2.1 U	2.1 U	0.16 J	0.21 J	2.3 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	0.18 J	0.081 J	0.068 J	0.047 J	2.5 U	2.1 U	2.2 U	2.4 U	0.2 J	0.22 J	0.047 J	0.29 J	0.41 J	0.12 J
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	2.2 U	2.2 U	2 U	2.5 U	2.1 U	2.2 U	2.4 U	2.1 U	2.1 U	2.1 U	2 U	2.1 U	2.3 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	2.2 U	2.2 U	2 U	2.5 U	2.1 U	2.2 U	2.4 U	2.1 U	2.1 U	2.1 U	2 U	2.1 U	2.3 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.031 J	0.06 J	0.22 U	0.2 U	0.25 U	0.21 U	0.22 U	0.24 U	0.21 U	0.21 U	0.21 U	0.15 J	0.27	0.035 J
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.54 U	0.25 J	0.54 U	0.51 U	0.62 U	0.52 U	0.55 U	0.59 U	0.53 U	0.54 U	0.54 U	0.51 U	0.52 U	0.57 U
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.22 U	0.22 U	0.2 U	0.25 U	0.21 U	0.22 U	0.24 U	0.027 J	0.21 U	0.21 U	0.13 J	0.097 J	0.23 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.22 U	0.05 J	0.03 J	0.25 U	0.035 J	0.22 U	0.24 U	0.16 J	0.18 J	0.21 U	0.18 J	0.2 J	0.12 J
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.22 U	0.22 U	0.2 U	0.25 U	0.21 U	0.22 U	0.24 U	0.21	0.18 J	0.21 U	0.2	0.17 J	0.23 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.15 J	0.22 U	0.2 U	0.25 U	0.21 U	0.22 U	0.24 U	0.21 U	0.21 U	0.21 U	0.72	0.87	0.085 J
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.27	0.45	0.083 J	0.051 J	0.073 J	0.036 J	0.22 U	0.24 U	0.15 J	0.14 J	0.21 U	0.17 J	0.23	0.23 U
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	0.41	1.4	0.12 J	0.085 J	0.54	0.043 J	0.045 J	0.063 J	0.36	0.29	0.036 J	4.9	5.6	0.59
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.28	0.57	0.058 J	0.2 U	0.088 J	0.21 U	0.22 U	0.24 U	0.12 J	0.11 J	0.21 U	0.3	0.69	0.043 J
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.58	0.86	0.07 J	0.051 J	0.094 J	0.21 U	0.039 J	0.051 J	0.086 J	0.063 J	0.21 U	0.088 J	0.098 J	0.061 J
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.22 U	0.22 U	0.2 U	0.25 U	0.21 U	0.22 U	0.24 U	0.21 UJ	0.21 U	0.21 U	0.22	0.22	0.23 U
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	**2.4**	**1.6**	**0.97**	0.48	0.25 U	0.35	0.37	0.58 J	**3.4**	**3.1**	0.5	**56**	**70**	**34**
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.27	**0.78**	0.089 J	0.071 J	0.22 J	0.21 U	0.22 U	0.24 U	0.14 J	0.078 J	0.21 U	0.47	0.53	0.064 J
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	0.42	0.77	0.064 J	0.059 J	0.11 J	0.21 U	0.22 U	0.24 U	0.13 J	0.12 J	0.21 U	0.16 J	0.27	0.23 U
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.22 U	0.22 U	0.2 U	0.25 U	0.21 U	0.22 U	0.24 U	0.057 J	0.045 J	0.21 UJ	0.11 J	0.1 J	0.23 U
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.22 U	0.22 U	0.2 U	0.25 U	0.21 U	0.22 U	0.24 U	0.068 J	0.057 J	0.21 UJ	0.18 J	0.12 J	0.23 U
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.22 U	0.22 U	0.2 U	0.25 U	0.056 J	0.039 J	0.24 U	0.3	0.27	0.21 U	0.69	0.52	0.23 U
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	5.101	7.451	1.649	0.948	1.515	0.52	0.493	0.694	5.408	4.853	0.583	65.118	80.605	35.118

Notes
Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

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Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil Analytical Results (July 2024)

Location:							SB-338			SB-339			SB-340			
Sample ID:							DCFTC-SB-338 (0-0.5)	DCFTC-SB-338 (0.5-1.5)	DCFTC-SB-338 (1.5-4)	DCFTC-SB-339 (0-0.5)	DCFTC-SB-339 (0.5-1.5)	DCFTC-SB-339 (1.5-2.5)	DCFTC-SB-340 (0-0.5)	DCFTC-SB-340 (0.5-1.5)	DCFTC-SB-340 (1.5-4)	DCFTC-DUP-06
Sample Delivery Group:							4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
Sample Date:							07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024
Sample Depth (feet bgs):							0 - 0.5	0.5 - 1.5	1.5 - 4	0 - 0.5	0.5 - 1.5	1.5 - 2.5	0 - 0.5	0.5 - 1.5	1.5 - 4	1.5 - 4
Analyte	**UUSCO**	**RESCO**	**RRSCO**	**CUSCO**	**IUSCO**	**Unit**	**Results**									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	NC	NC	NC	ug/kg	1.2 J	0.74 J	0.57 J	2.1 U	2.1 U	2.1 U	1.4 J	1.9 J	0.48 J	0.2 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	NC	NC	NC	ug/kg	4.6	1.9 J	2.3 U	0.71 J	0.5 J	0.1 J	5.5	9.5	8.9 J	1.1 J
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2 U	2.1 U	2.2 U	2.3 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	NC	NC	NC	ug/kg	2.1 U	2.1 U	2.3 U	2.1 U	2.1 U	2.1 U	2 U	2.1 U	2.2 U	2.3 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.2 U	0.21 U	0.22 U	0.23 U
Perfluorobutanoic acid (PFBA)	NC	NC	NC	NC	NC	ug/kg	0.21 J	0.19 J	0.35 J	0.52 U	0.52 U	0.53 U	0.51 U	0.52 U	0.56 U	0.57 U
Perfluorodecane sulfonic acid (PFDS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.022 J	0.032 J	0.22 U	0.23 U
Perfluorodecanoic acid (PFDA)	NC	NC	NC	NC	NC	ug/kg	0.46	0.36	0.23 U	0.15 J	0.17 J	0.036 J	0.11 J	0.17 J	1.1	0.62
Perfluorododecanoic acid (PFDoA)	NC	NC	NC	NC	NC	ug/kg	0.41	0.18 J	0.23 U	0.15 J	0.059 J	0.21 U	0.16 J	0.26	0.22 U	0.23 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.21 U	0.3	0.21 U	0.21 U	0.21 U	0.053 J	0.079 J	0.044 J	0.09 J
Perfluoroheptanoic acid (PFHpA)	NC	NC	NC	NC	NC	ug/kg	0.38	0.22	0.46	0.054 J	0.038 J	0.064 J	0.33	0.45	0.32	0.29
Perfluorohexane sulfonic acid (PFHxS)	NC	NC	NC	NC	NC	ug/kg	0.22	0.17 J	0.32	0.056 J	0.043 J	0.17 J	0.45	0.51	0.42	0.39
Perfluorohexanoic acid (PFHxA)	NC	NC	NC	NC	NC	ug/kg	0.32	0.2 J	0.35	0.044 J	0.21 U	0.041 J	0.26	0.33	0.19 J	0.17 J
Perfluorononanoic acid (PFNA)	NC	NC	NC	NC	NC	ug/kg	0.26	0.35	2.1	0.061 J	0.048 J	0.26	0.14 J	0.18 J	0.3	0.42
Perfluorooctane sulfonamide (PFOSA)	NC	NC	NC	NC	NC	ug/kg	0.21 U	0.21 U	0.23 U	0.21 U	0.21 U	0.21 U	0.2 U	0.045 J	0.22 U	0.23 U
Perfluorooctane sulfonic acid (PFOS)	0.88	8.8	44	440	440	ug/kg	**5.1**	**11**	**5.8 J**	0.44	0.72	**9.1**	**6.2**	**6.7**	**58 J**	**110 J**
Perfluorooctanoic acid (PFOA)	0.66	6.6	33	500	600	ug/kg	0.28	0.23	0.49	0.21 U	0.21 U	0.073 J	0.3	0.33	0.34	0.27
Perfluoropentanoic acid (PFPeA)	NC	NC	NC	NC	NC	ug/kg	0.45	0.3	0.71	0.066 J	0.21 U	0.21 U	0.26	0.35	0.15 J	0.2 J
Perfluorotetradecanoic acid (PFTA)	NC	NC	NC	NC	NC	ug/kg	0.44	0.15 J	0.23 U	0.21 U	0.21 U	0.21 U	0.13 J	0.15 J	0.22 U	0.23 U
Perfluorotridecanoic acid (PFTrDA)	NC	NC	NC	NC	NC	ug/kg	0.14 J	0.055 J	0.23 U	0.18 J	0.1 J	0.21 U	0.46	0.78	0.22 U	0.23 U
Perfluoroundecanoic acid (PFUnA)	NC	NC	NC	NC	NC	ug/kg	0.21	0.081 J	0.23 U	0.55	0.43	0.097 J	0.4	0.95	0.22 U	0.23 U
Total Detected PFAS (TDP)	NC	NC	NC	NC	NC	ug/kg	14.68	16.126	11.45	2.461	2.108	9.941	16.175	22.716	70.244	113.75

Notes
Samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency Method 537.

feet bgs - Feet below ground surface.
NC - No criteria.
ug/kg - micrograms per kilogram (dry weight).
PFAS - Per- and polyfluoroalkyl substances.
J - Estimated value.
U - Analyte was not detected at specified quantitation limit.
UJ - Estimated not detected.

NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objective.
UUSCO - NYSDEC Unrestricted Use SCO
RESCO - NYSDEC Residential Use SCO
RRSCO - NYSDEC Restricted-Residential Use SCO
CUSCO - NYSDEC Commercial Use SCO
IUSCO - NYSDEC Industrial Use SCO

Table 3
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil TCLP/SPLP Analytical Results (July 2024)

		Location:	**SB-301**	**SB-312**	**SB-315**	**SB-322**	**SB-323**	**SB-324**	**SB-337**	**SB-338**	**SB-339**
		Sample ID:	DCFTC-SB-301 (0-0.5)	DCFTC-SB-312 (1.5-4)	DCFTC-SB-315 (0.5-1.5)	DCFTC-SB-322 (0-0.5)	DCFTC-SB-323 (0-0.5)	DCFTC-SB-324 (0.5-1.5)	DCFTC-SB-337 (1.5-4)	DCFTC-SB-338 (1.5-4)	DCFTC-SB-339 (0.5-1.5)
		Sample Delivery Group:	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
		Sample Date:	07/23/2024	07/23/2024	07/23/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024
		Sample Depth (ft bgs):	0 - 0.5	1.5 - 4	0.5 - 1.5	0 - 0.5	0 - 0.5	0.5 - 1.5	1.5 - 4	1.5 - 4	0.5 - 1.5
Analyte	**Fraction**	**Unit**	**Result**								
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	TCLP	ng/L	9.5 U	9.7 U	9.6 U	22	21	25	9.7 U	9.6 U	9.7 U
	SPLP	ng/L	9.4 U	9.5 U	3.1 J	11 U	27	35	9.7 U	9.9 U	9.4 U
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	TCLP	ng/L	3.8 U	3.9 U	3.8 U	4 U	3.9 U	4.8	3.9 U	3.8 U	3.9 U
	SPLP	ng/L	3.7 U	3.8 U	3.7 U	4.3 U	2.7 J	15	3.9 U	3.9 U	3.8 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	TCLP	ng/L	9.5 U	9.7 U	9.6 U	3.7 J	6 J	12	9.7 U	9.6 U	9.7 U
	SPLP	ng/L	9.4 U	9.5 U	9.3 U	11 U	2.9 J	2.5 J	9.7 U	9.9 U	9.4 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	TCLP	ng/L	3.8 U	3.9 U	3.8 U	4 U	3.9 U	3.9 U	3.9 U	3.8 U	3.9 U
	SPLP	ng/L	3.7 U	3.8 U	3.7 U	4.3 U	3.9 U	3.8 U	3.9 U	3.9 U	3.8 U
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	TCLP	ng/L	9.5 U	9.7 U	9.6 U	9.9 U	9.7 U	9.9 U	9.7 U	9.6 U	9.7 U
	SPLP	ng/L	9.4 U	9.5 U	9.3 U	11 U	9.6 U	9.6 U	9.7 U	9.9 U	9.4 U
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	TCLP	ng/L	9.5 U	9.7 U	9.6 U	9.9 U	9.7 U	9.9 U	9.7 U	9.6 U	9.7 U
	SPLP	ng/L	9.4 U	9.5 U	9.3 U	11 U	9.6 U	9.6 U	9.7 U	9.9 U	9.4 U
N-Methylperfluorooctane sulfonamide (NMeFOSA)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	TCLP	ng/L	1.4 U	1.5 U	1.4 U	0.6 J	0.54 J	1.5 U	1.5 U	1.4 U	1.4 U
	SPLP	ng/L	1.4 U	1.4 U	1.4 U	1.6 U	1.4 U	1.4 U	1.5 U	1.5 U	1.4 U
Perfluoro-3,6-dioxaheptanoic acid (PFPE-3)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluorododecane sulfonic acid (PFDoS)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluorononane sulfonic acid (PFNS)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.7	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	3.4	4.7	1.9 U	2 U	1.9 U
Perfluoropentane sulfonic acid (PFPeS)	TCLP	ng/L	1.9 U	1.9 U	1.9 U	5.6	5.4	5.6	2.9	0.56 J	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	5.3	5.3	5.4	3.7	0.52 J	1.9 U

Table 3
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil TCLP/SPLP Analytical Results (July 2024)

		Location:	SB-301	SB-312	SB-315	SB-322	SB-323	SB-324	SB-337	SB-338	SB-339
		Sample ID:	DCFTC-SB-301 (0-0.5)	DCFTC-SB-312 (1.5-4)	DCFTC-SB-315 (0.5-1.5)	DCFTC-SB-322 (0-0.5)	DCFTC-SB-323 (0-0.5)	DCFTC-SB-324 (0.5-1.5)	DCFTC-SB-337 (1.5-4)	DCFTC-SB-338 (1.5-4)	DCFTC-SB-339 (0.5-1.5)
		Sample Delivery Group:	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
		Sample Date:	07/23/2024	07/23/2024	07/23/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024
		Sample Depth (ft bgs):	0 - 0.5	1.5 - 4	0.5 - 1.5	0 - 0.5	0 - 0.5	0.5 - 1.5	1.5 - 4	1.5 - 4	0.5 - 1.5
Analyte	**Fraction**	**Unit**	**Result**								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	Soil	ug/kg	2 U	2.2 U	0.62 J	1.4 J	7	3	2.3 U	0.57 J	2.1 U
	TCLP	ng/L	3.8 U	3.9 U	5.5	4 U	160	64	1.2 J	120	3.9 U
	SPLP	ng/L	3.7 U	3.8 U	5.7	7	170	68	2.1 J	110	3.8 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	Soil	ug/kg	2 U	2.2 U	0.31 J	7.6	28	7.3	0.12 J	2.3 U	0.5 J
	TCLP	ng/L	3.8 U	3.9 U	1.3 J	3.5 J	270	69	2.3 J	8.2 0.55	1.5 J
	SPLP	ng/L	3.7 U	3.8 U	1.3 J	3.3 J	480	120	2.6 J	14 0.78	1.8 J
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	Soil	ug/kg	2 U	2.2 U	2.2 U	5 U	0.22 J	2.3 U	2.3 U	2.3 U	2.1 U
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	0.93 J	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	Soil	ug/kg	2 U	2.2 U	2.2 U	5 U	3.7 U	2.3 U	2.3 U	2.3 U	2.1 U
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluorobutane sulfonic acid (PFBS)	Soil	ug/kg	0.2 U	0.22 U	0.22 U	0.65	0.37 U	0.082 J	0.035 J	0.23 U	0.21 U
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	6.6	3.2	3.5	2	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	6	3	3.5	2.3	2 U	1.9 U
Perfluorobutanoic acid (PFBA)	Soil	ug/kg	0.5 U	0.54 U	0.64	11	0.72 J	0.74	0.57 U	0.35 J	0.52 U
	TCLP	ng/L	3.8 U	3.9 U	21	180	27	32	3.9 U	15	3.9 U
	SPLP	ng/L	3.7 U	3.8 U	18	65	23	29	3.9 U	14	3.8 U
Perfluorodecane sulfonic acid (PFDS)	Soil	ug/kg	0.2 U	0.22 U	0.22 U	3.3	2.8 J	0.026 J	0.23 U	0.23 U	0.21 U
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluorodecanoic acid (PFDA)	Soil	ug/kg	0.2 U	0.22 U	1.3	31	1.9	1.9	0.12 J	0.23 U	0.17 J
	TCLP	ng/L	1.9 U	1.9 U	14	15	15	31	1.9 U	0.78 J	1.8 J
	SPLP	ng/L	1.9 U	1.9 U	5.3	35	32	43	0.55 J	1.1 J	2.6
Perfluorododecanoic acid (PFDoA)	Soil	ug/kg	0.2 U	0.22 U	1.4	24	0.3 J	0.046 J	0.23 U	0.23 U	0.059 J
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	0.51 J	1.9 U	1.9 U	2 U	1.9 U
Perfluoroheptane sulfonic acid (PFHpS)	Soil	ug/kg	0.2 U	0.22 U	0.22 U	1.1	1.8	0.28	0.085 J	0.3	0.21 U
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2.4	75	9.2	18	16	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	3.6	69	10	16	17	1.9 U
Perfluoroheptanoic acid (PFHpA)	Soil	ug/kg	0.2 U	0.22 U	0.56	14	1.3	1	0.23 U	0.46	0.038 J
	TCLP	ng/L	1.9 U	0.88 J	16	200	48	47	2.1	18	1.3 J
	SPLP	ng/L	1.9 U	0.92 J	14	150	53	45	2.6	17	1 J
Perfluorohexane sulfonic acid (PFHxS)	Soil	ug/kg	0.2 U	0.22 U	0.38	12	3.6	1.9	0.59	0.32	0.043 J
	TCLP	ng/L	0.59 J	0.51 J	4.1	62	110	72	42	16	0.88 J
	SPLP	ng/L	1.9 U	1.9 U	3.4	72	110	72	64	14	0.9 J
Perfluorohexanoic acid (PFHxA)	Soil	ug/kg	0.2 U	0.22 U	0.7	8.2	1.7	1.2	0.043 J	0.35	0.21 U
	TCLP	ng/L	1.9 U	0.76 J	21	130	57	50	3.1	20	1.6 J
	SPLP	ng/L	0.53 J	1.9	20	89	57	51	3.3	18	1.3 J

Table 3
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Supplemental Vadose Zone Soil TCLP/SPLP Analytical Results (July 2024)

		Location:	**SB-301**	**SB-312**	**SB-315**	**SB-322**	**SB-323**	**SB-324**	**SB-337**	**SB-338**	**SB-339**
		Sample ID:	DCFTC-SB-301 (0-0.5)	DCFTC-SB-312 (1.5-4)	DCFTC-SB-315 (0.5-1.5)	DCFTC-SB-322 (0-0.5)	DCFTC-SB-323 (0-0.5)	DCFTC-SB-324 (0.5-1.5)	DCFTC-SB-337 (1.5-4)	DCFTC-SB-338 (1.5-4)	DCFTC-SB-339 (0.5-1.5)
		Sample Delivery Group:	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671	4802220671
		Sample Date:	07/23/2024	07/23/2024	07/23/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024	07/24/2024
		Sample Depth (ft bgs):	0 - 0.5	1.5 - 4	0.5 - 1.5	0 - 0.5	0 - 0.5	0.5 - 1.5	1.5 - 4	1.5 - 4	0.5 - 1.5
Analyte	**Fraction**	**Unit**	**Result**								
Perfluorononanoic acid (PFNA)	Soil	ug/kg	0.2 U	0.22 U	0.71	19	8.9	2.5	0.061 J	2.1	0.048 J
	TCLP	ng/L	1.9 U	0.61 J	12	94	140	100	10	97	1.7 J
	SPLP	ng/L	1.9 U	0.75 J	12	120	170	110	19	120	2.5
Perfluorooctane sulfonamide (PFOSA)	Soil	ug/kg	0.2 U	0.22 U	0.22 U	0.67	2.2	0.6	0.23 U	0.23 U	0.21 U
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.8 J	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.3 J	2.2 J	1.9 U	2 U	1.9 U
Perfluorooctane sulfonic acid (PFOS)	Soil	ug/kg	0.2 U	0.22 U	1.3	190	430	110	34	5.8 J	0.72
	TCLP	ng/L	1.9 U	1.9 U	5.3	110	5,800	2,100	380	440	14
	SPLP	ng/L	1.9 U	0.52 J	5.5	360	10,000	2,700	620	590	24
Perfluorooctanoic acid (PFOA)	Soil	ug/kg	0.2 U	0.22 U	0.63	16	3	2.2	0.064 J	0.49	0.21 U
	TCLP	ng/L	1.9 U	0.89 J	21	210	110	110	6.7	20	1.3 J
	SPLP	ng/L	1.9 U	1.3 J	18	200	120	120	11	18	1.3 J
Perfluoropentanoic acid (PFPeA)	Soil	ug/kg	0.2 U	0.22 U	1.3	24	2.9	2.5	0.23 U	0.71	0.21 U
	TCLP	ng/L	1.9 U	1.9 U	40	380	120	120	1.9	39	1.4 J
	SPLP	ng/L	1.9 U	1 J	33	140	100	110	2.2	35	1.2 J
Perfluorotetradecanoic acid (PFTA)	Soil	ug/kg	0.2 U	0.22 U	0.47	11	0.37 UJ	0.032 J	0.23 U	0.23 U	0.21 U
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Perfluorotridecanoic acid (PFTrDA)	Soil	ug/kg	0.2 U	0.22 U	1.3	45	4 J	0.29	0.23 U	0.23 U	0.1 J
	TCLP	ng/L	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U
	SPLP	ng/L	1.9 U	1.9 U	1.9 U	2.2 U	1.8 J	1.9 U	1.9 U	2 U	1.9 U
Perfluoroundecanoic acid (PFUnA)	Soil	ug/kg	0.2 U	0.22 U	2.4	73	11	7.5	0.23 U	0.23 U	0.43
	TCLP	ng/L	1.9 U	1.9 U	3.8	3.8	17	39	1.9 U	1.9 U	1.7 J
	SPLP	ng/L	1.9 U	1.9 U	1.1 J	4.5	95	61	1.9 U	0.69 J	3.5
Total Detected PFAS	Soil	mg/kg	--	--	14.02	492.92	511.34	143.096	35.118	11.45	2.108
	TCLP	ng/L	0.59	3.65	165	1,429.20	6,985.14	2,900.53	472.20	810.54	27.18
	SPLP	ng/L	0.53	6.39	140.40	1,260.70	11,526.91	3,607.30	749.35	969.31	40.1
General Chemistry											
Total Organic Carbon	Soil	mg/kg	78,000	2,110	17,200	81,000	20,800	19,700	26,300	3,760	5,500

Notes
Soil samples were analyzed for PFAS (21 Compound List) by United States Environmental Protection Agency (USEPA) Method 537.
Soil sample extracts were analyzed for PFAS (40 Compound List) by USEPA Method 1633.

feet bgs - Feet below ground surface.
J - Estimated value.
mg/kg - milligrams per kilogram (dry weight).
ng/L - nanograms per liter.
ug/kg - micrograms per kilogram (dry weight).
U - Analyte was not detected at specified quantitation limit.
PFAS - Per- and polyfluoroalkyl substances.
TCLP - Toxicity Characteristic Leaching Procedure
SPLP - Synthetic Precipitation Leaching Procedure

Table 4
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Bedrock Monitoring Well Soil Analytical Results (July and September 2024)

Location:			BMW-101			BMW-102					BMW-103			
Sample ID:			DCFTC-BMW-101 (0-0.5)	DCFTC-BMW-101 (0.5-1.5)	DCFTC-BMW-101 (1.5-3)	DCFTC-BMW-102 (0-0.5)	DCFTC-DUP-07	DCFTC-BMW-102 (0.5-1.5)	DCFTC-BMW-102 (3-5)	DCFTC-BMW-102 (18-20)	DCFTC-BMW-103 (0-0.5)	DCFTC-BMW-103 (0.5-1.5)	DCFTC-BMW-103 (7-9)	DCFTC-BMW-103(9-10)
Sample Delivery Group:			4802220662	4802220662	4802220662	4802220662	4802220662	4802220662	4802220662	4802220662	4802220662	4802220662	4802220662	4802235951
Sample Date:			07/25/2024	07/25/2024	07/25/2024	07/25/2024	07/25/2024	07/25/2024	07/25/2024	07/25/2024	07/25/2024	07/25/2024	07/25/2024	09/17/2024
Sample Depth (feet bgs):			0 - 0.5	0.5 - 1.5	1.5 - 3	0 - 0.5	0 - 0.5	0.5 - 1.5	3 - 5	18 - 20	0 - 0.5	0.5 - 1.5	7 - 9	9 - 10
Analyte	**UUSCO**	**Unit**	**Results**											
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NC	ug/kg	0.76 U	0.75 U	0.78 U	0.77 U	0.76 U	0.78 U	0.75 U	0.72 U	0.84 U	0.78 U	0.75 U	0.77 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NC	ug/kg	4.7 U	4.7 U	4.9 U	4.8 U	4.7 U	4.9 U	4.7 U	4.5 U	5.2 U	4.9 U	4.7 U	4.8 U
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NC	ug/kg	0.94 U	0.94 U	0.97 U	0.96 U	0.95 U	0.98 U	0.94 U	0.91 U	1 U	0.98 U	0.94 U	0.97 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NC	ug/kg	4.7 U	4.7 U	4.9 U	4.8 U	4.7 U	4.9 U	4.7 U	4.5 U	5.2 U	4.9 U	4.7 U	4.8 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	NC	ug/kg	0.76 U	0.75 U	0.78 U	0.77 U	0.76 U	0.78 U	0.75 U	0.72 U	0.84 U	0.78 U	0.75 U	0.77 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NC	ug/kg	0.76 U	0.75 U	0.78 U	0.77 U	0.76 U	0.78 U	0.75 U	0.72 U	0.84 U	0.78 U	0.75 U	0.77 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	ug/kg	0.24 J	0.75 U	0.24 J	0.77 U	0.76 U	0.78 U	0.75 U	0.72 U	0.84 U	0.78 U	0.75 U	0.77 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	ug/kg	0.2 J	0.75 U	0.32 J	0.77 U	0.76 U	0.78 U	0.75 U	0.72 U	0.84 U	0.78 U	0.75 U	0.77 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NC	ug/kg	0.76 U	0.75 U	0.78 U	0.77 U	0.76 U	0.78 U	0.75 U	0.72 U	0.84 U	0.78 U	0.75 U	0.77 U
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	NC	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	2.1 U	2 U	1.9 U	1.9 U
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	NC	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	2.1 U	2 U	1.9 U	1.9 U
N-Methylperfluorooctane sulfonamide (NMeFOSA)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NC	ug/kg	0.38 U	0.38 U	0.39 U	0.38 U	0.38 U	0.39 U	0.38 U	0.36 U	0.42 U	0.39 U	0.38 U	0.39 U
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	NC	ug/kg	0.76 U	0.75 U	0.78 U	0.77 U	0.76 U	0.78 U	0.75 U	0.72 U	0.84 U	0.78 U	0.75 U	0.77 U
Perfluoro-3,6-dioxaheptanoic acid (PFPE-3)	NC	ug/kg	0.38 U	0.38 U	0.39 U	0.38 U	0.38 U	0.39 U	0.38 U	0.36 U	0.42 U	0.39 U	0.38 U	0.39 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NC	ug/kg	0.38 U	0.38 U	0.39 U	0.38 U	0.38 U	0.39 U	0.38 U	0.36 U	0.42 U	0.39 U	0.38 U	0.39 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NC	ug/kg	0.38 U	0.38 U	0.39 U	0.38 U	0.38 U	0.39 U	0.38 U	0.36 U	0.42 U	0.39 U	0.38 U	0.39 U
Perfluorobutane sulfonic acid (PFBS)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
Perfluorobutanoic acid (PFBA)	NC	ug/kg	0.38 J	0.75 U	0.78 U	0.77 U	0.76 U	0.78 U	0.75 U	0.72 U	0.84 U	0.78 U	0.75 U	0.77 U
Perfluorodecane sulfonic acid (PFDS)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.36	0.093 J	0.19 U	0.46
Perfluorodecanoic acid (PFDA)	NC	ug/kg	3.1	1.6	1.6	0.1 J	0.11 J	0.08 J	0.19 U	0.18 U	0.38	0.17 J	0.19 U	0.19 U
Perfluorododecane sulfonic acid (PFDoS)	NC	ug/kg	0.48 J	0.19 U	0.19 U	0.082 J	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
Perfluorododecanoic acid (PFDoA)	NC	ug/kg	2.9	1.2	0.6	0.059 J	0.065 J	0.066 J	0.19 U	0.18 U	0.21	0.068 J	0.19 U	0.19 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
Perfluoroheptanoic acid (PFHpA)	NC	ug/kg	0.48	0.21	0.2	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.066 J	0.2 U	0.19 U	0.19 U
Perfluorohexane sulfonic acid (PFHxS)	NC	ug/kg	0.21	0.27	0.16 J	0.19 U	0.19 U	0.094 J	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
Perfluorohexanoic acid (PFHxA)	NC	ug/kg	0.68	0.25	0.27	0.19 U	0.19 U	0.2 U	0.066 J	0.18 U	0.13 J	0.074 J	0.19 U	0.19 U
Perfluorononane sulfonic acid (PFNS)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
Perfluorononanoic acid (PFNA)	NC	ug/kg	0.62	0.3 J	0.27 J	0.081 J	0.1 J	0.13 J	0.19 U	0.18 U	0.15 J	0.095 J	0.19 U	0.19 U
Perfluorooctane sulfonamide (PFOSA)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.062 J	0.2 U	0.19 U	0.19 U
Perfluorooctane sulfonic acid (PFOS)	0.88	ug/kg	0.38	0.38	0.69	0.75	0.74	**1.8**	0.19	0.18 U	0.65	0.35	0.062 J	0.19 U
Perfluorooctanoic acid (PFOA)	0.66	ug/kg	0.62	0.35	0.31	0.068 J	0.16 J	0.093 J	0.068 J	0.18 U	0.19 J	0.084 J	0.051 J	0.095 J
Perfluoropentane sulfonic acid (PFPeS)	NC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.21 U	0.2 U	0.19 U	0.19 U
Perfluoropentanoic acid (PFPeA)	NC	ug/kg	1	0.4	0.46	0.38 U	0.38 U	0.39 U	0.38 U	0.36 U	0.42 U	0.39 U	0.38 U	0.39 U
Perfluorotetradecanoic acid (PFTA)	NC	ug/kg	0.44	0.19	0.096 J	0.19 U	0.19 U	0.2 U	0.19 U	0.18 U	0.13 J	0.2 U	0.19 U	0.19 U
Perfluorotridecanoic acid (PFTrDA)	NC	ug/kg	2.8	1.6	0.91	0.13 J	0.14 J	0.28	0.19 U	0.18 U	0.15 J	0.2 U	0.19 U	0.19 U
Perfluoroundecanoic acid (PFUnA)	NC	ug/kg	9.5	6.2	5.5	0.21	0.27	0.36	0.19 U	0.18 U	0.28	0.089 J	0.19 U	0.19 U
Total Detected PFAS (TDP)	NC	ug/kg	24.03	12.95	11.626	1.48	1.585	2.903	0.324	--	2.758	1.023	0.113	0.555

Notes
Samples were analyzed for PFAS (40 Compound List) by
United States Environmental Protection Agency Method 1633.

feet bgs - Feet below ground surface.
NC - No Criteria
J - Estimated value.
PFAS - Per- and polyfluoroalkyl substances.
ug/kg - micrograms per kilogram (dry weight).
ng/L - nanograms per liter.

U - Analyte was not detected at specified quantitation limit.

NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objective.
UUSCO - NYSDEC Unrestricted Use SCO
Bold - Indicates the result exceeds the NYSDEC UUSCO

Table 4
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Bedrock Monitoring Well Soil Analytical Results (July and September 2024)

Location:			BMW-104					BMW-105			
Sample ID:			DCFTC-BMW-104 (0-0.5)	DCFTC-BMW-104 (0.5-1.5)	DCFTC-DUP-08	DCFTC-BMW-104 (5-7)	DCFTC-BMW-104 (7-7.5)	DCFTC-BMW-105 (0-0.5)	DCFTC-BMW-105 (0.5-1.5)	DCFTC-BMW-105 (4-6)	DCFTC-BMW-105 (6-7)
Sample Delivery Group:			4802235951	4802235951	4802235951	4802235951	4802235951	4802235951	4802235951	4802235951	4802235951
Sample Date:			09/11/2024	09/11/2024	09/11/2024	09/11/2024	09/13/2024	09/11/2024	09/11/2024	09/11/2024	09/13/2024
Sample Depth (feet bgs):			0 - 0.5	0.5 - 1.5	0.5 - 1.5	5 - 7	7 - 7.5	0 - 0.5	0.5 - 1.5	4 - 6	6 - 7
Analyte	**UUSCO**	**Unit**	**Results**								
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NC	ug/kg	0.93 U	0.92 U	0.77 U	0.81 U	0.77 U	0.82 U	0.9 U	0.88 U	0.9 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NC	ug/kg	5.8 U	5.8 U	4.8 U	5.1 U	4.8 U	5.1 U	5.6 U	5.5 U	5.6 U
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NC	ug/kg	1.2 U	1.2 U	0.96 U	1 U	0.97 U	1 U	1.1 U	1.1 U	1.1 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NC	ug/kg	5.8 U	5.8 U	4.8 U	5.1 U	4.8 U	5.1 U	5.6 U	5.5 U	5.6 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	NC	ug/kg	0.93 U	0.92 U	0.77 U	0.81 U	0.77 U	0.82 U	0.9 U	0.88 U	0.9 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NC	ug/kg	0.93 U	0.92 U	0.77 U	0.81 U	0.77 U	0.82 U	0.9 U	0.88 U	0.9 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	ug/kg	0.93 U	0.92 U	0.77 U	0.81 U	0.77 U	0.82 U	0.9 U	0.88 U	0.9 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	ug/kg	0.93 U	0.92 U	0.77 U	0.81 U	0.77 U	0.82 U	0.9 U	0.88 U	0.9 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NC	ug/kg	0.93 U	0.92 U	0.77 U	0.81 U	0.77 U	0.82 U	0.9 U	0.88 U	0.9 U
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	NC	ug/kg	2.3 U	2.3 U	1.9 U	2 U	1.9 U	2.1 U	2.2 U	2.2 U	2.3 U
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	NC	ug/kg	2.3 U	2.3 U	1.9 U	2 U	1.9 U	2.1 U	2.2 U	2.2 U	2.3 U
N-Methylperfluorooctane sulfonamide (NMeFOSA)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NC	ug/kg	0.46 U	0.46 U	0.39 U	0.41 U	0.39 U	0.41 U	0.45 U	0.44 U	0.45 U
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	NC	ug/kg	0.93 U	0.92 U	0.77 U	0.81 U	0.77 U	0.82 U	0.9 U	0.88 U	0.9 U
Perfluoro-3,6-dioxaheptanoic acid (PFPE-3)	NC	ug/kg	0.46 U	0.46 U	0.39 U	0.41 U	0.39 U	0.41 U	0.45 U	0.44 U	0.45 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NC	ug/kg	0.46 U	0.46 U	0.39 U	0.41 U	0.39 U	0.41 U	0.45 U	0.44 U	0.45 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NC	ug/kg	0.46 U	0.46 U	0.39 U	0.41 U	0.39 U	0.41 U	0.45 U	0.44 U	0.45 U
Perfluorobutane sulfonic acid (PFBS)	NC	ug/kg	0.23 U	0.077 J	0.076 J	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluorobutanoic acid (PFBA)	NC	ug/kg	0.3 J	0.23 J	0.21 J	0.81 U	0.77 U	0.82 U	0.9 U	0.88 U	0.9 U
Perfluorodecane sulfonic acid (PFDS)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluorodecanoic acid (PFDA)	NC	ug/kg	0.15 J	0.23 U	0.19 U	0.2 U	0.19 U	0.06 J	0.22 U	0.22 U	0.23 U
Perfluorododecane sulfonic acid (PFDoS)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluorododecanoic acid (PFDoA)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluoroheptanoic acid (PFHpA)	NC	ug/kg	0.16 J	0.12 J	0.087 J	0.054 J	0.19 U	0.074 J	0.079 J	0.22 U	0.23 U
Perfluorohexane sulfonic acid (PFHxS)	NC	ug/kg	0.23 U	0.23 U	0.095 J	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluorohexanoic acid (PFHxA)	NC	ug/kg	0.11 J	0.15 J	0.15 J	0.2 U	0.19 U	0.062 J	0.22 U	0.22 U	0.23 U
Perfluorononane sulfonic acid (PFNS)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluorononanoic acid (PFNA)	NC	ug/kg	0.43	0.092 J	0.19 U	0.2 U	0.19 U	0.29	0.12 J	0.22 U	0.23 U
Perfluorooctane sulfonamide (PFOSA)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluorooctane sulfonic acid (PFOS)	0.88	ug/kg	0.76	0.19 J	0.15 J	0.13 J	0.19 U	0.36	0.2 J	0.22 U	0.23 U
Perfluorooctanoic acid (PFOA)	0.66	ug/kg	0.48	0.59	0.34	0.16 J	0.19 U	0.45	0.53	0.22 U	0.23 U
Perfluoropentane sulfonic acid (PFPeS)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluoropentanoic acid (PFPeA)	NC	ug/kg	0.14 J	0.14 J	0.14 J	0.41 U	0.39 U	0.41 U	0.45 U	0.44 U	0.45 U
Perfluorotetradecanoic acid (PFTA)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluorotridecanoic acid (PFTrDA)	NC	ug/kg	0.23 U	0.23 U	0.19 U	0.2 U	0.19 U	0.21 U	0.22 U	0.22 U	0.23 U
Perfluoroundecanoic acid (PFUnA)	NC	ug/kg	0.17 J	0.23 U	0.19 U	0.2 U	0.19 U	0.067 J	0.22 U	0.22 U	0.23 U
Total Detected PFAS (TDP)	NC	ug/kg	2.7	1.589	1.248	0.344	--	1.363	0.929	--	--

Notes
Samples were analyzed for PFAS (40 Compound List) by United States Environmental Protection Agency Method 1633.

feet bgs - Feet below ground surface.
NC - No Criteria
J - Estimated value.
PFAS - Per- and polyfluoroalkyl substances.
ug/kg - micrograms per kilogram (dry weight).
ng/L - nanograms per liter.

U - Analyte was not detected at specified quantitation limit.

NYSDEC - New York State Department of Environmental Conservation
SCO - Soil Cleanup Objective.
UUSCO - NYSDEC Unrestricted Use SCO
Bold - Indicates the result exceeds the NYSDEC UUSCO

Table 5
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Open Hole Bedrock Monitoring Well Packer Test Analytical Results (November and December 2024)

Location:			BMW-101			BMW-102		BMW-103		BMW-104				BMW-105		
Sample ID:			DCFTC-BMW-101 (3-13)	DCFTC-BMW-101 (19-29)	DCFTC-BMW-101 (39-49)	DCFTC-BMW-102 (21-31)	DCFTC-BMW-102 (35-45)	DCFTC-BMW-103 (25-45)	DCFTC-BMW-103 (37-47)	DCFTC-BMW-104 (17-22)	DCFTC-BMW-104 (24-29)	DCFTC-BMW-104 (34-39)	DCFTC-BMW-104 (60-65)	DCFTC-BMW-105 (20-30)	DCFTC-BMW-105 (38-43)	DCFTC-PT-DUP-01
Sample Delivery Group:			4802260191	4802260191	4802260191	4802260191	4802260191	4802260191	4802260191	4802262181	4802262181	4802262181	4802262181	4802260191	4802260191	4802260191
Sample Date:			11/20/2024	11/20/2024	11/19/2024	11/21/2024	11/21/2024	11/25/2024	11/25/2024	12/06/2024	12/06/2024	12/06/2024	12/09/2024	12/03/2024	12/04/2024	12/04/2024
Sample Depth (feet bgs):			3 - 13	19 - 29	39 - 49	21 - 31	35 - 45	25 - 45	37 - 47	17 - 22	24 - 29	34 - 39	60 - 65	20 - 30	38 - 43	38 - 43
Analyte	**GA Value**	**Unit**	**Results**													
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NC	ng/L	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NC	ng/L	39 U	37 U	35 U	38 U	41 U	41 U	36 U	44 U	80 U	80 U	76 U	41 U	43 U	39 U
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NC	ng/L	7.8 U	7.4 U	7.1 U	7.6 U	8.1 U	8.2 U	7.3 U	8.7 U	16 U	16 U	15 U	8.1 U	8.6 U	7.8 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NC	ng/L	39 U	37 U	35 U	38 U	41 U	41 U	36 U	44 U	80 U	80 U	76 U	41 U	43 U	39 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	NC	ng/L	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NC	ng/L	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	ng/L	1.7 J	1.8 J	1.8 J	6.1 U	6.5 U	6.6 U	5.8 U	7 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	ng/L	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NC	ng/L	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	NC	ng/L	16 U	15 U	14 U	15 U	16 U	16 U	15 U	17 U	32 U	32 U	30 U	16 U	17 U	16 U
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	NC	ng/L	16 U	15 U	14 U	15 U	16 U	16 U	15 U	17 U	32 U	32 U	30 U	16 U	17 U	16 U
N-Methylperfluorooctane sulfonamide (NMeFOSA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NC	ng/L	3.1 U	3 U	2.8 U	3.1 U	3.2 U	3.3 U	2.9 U	3.5 U	6.4 U	6.4 U	6 U	3.3 U	3.5 U	3.1 U
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	NC	ng/L	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
Perfluoro-3,6-dioxaheptanoic acid (PFPE-3)	NC	ng/L	3.1 U	3 U	2.8 U	3.1 U	3.2 U	3.3 U	2.9 U	3.5 U	6.4 U	6.4 U	6 U	3.3 U	3.5 U	3.1 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NC	ng/L	3.1 U	3 U	2.8 U	3.1 U	3.2 U	3.3 U	2.9 U	3.5 U	6.4 U	6.4 U	6 U	3.3 U	3.5 U	3.1 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NC	ng/L	3.1 U	3 U	2.8 U	3.1 U	3.2 U	3.3 U	2.9 U	3.5 U	6.4 U	6.4 U	6 U	3.3 U	3.5 U	3.1 U
Perfluorobutane sulfonic acid (PFBS)	NC	ng/L	0.61 J	0.62 J	0.63 J	1.4 J	1.1 J	1.6 U	0.36 J	9.4	12	10	2.9 J	11	9.8	8.9
Perfluorobutanoic acid (PFBA)	NC	ng/L	8.4	9	8.5	6.1 U	6.5 U	2 J	2.4 J	2.4 J	4 J	13 U	12 U	5.2 J	4.5 J	4.2 J
Perfluorodecane sulfonic acid (PFDS)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluorodecanoic acid (PFDA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluorododecane sulfonic acid (PFDoS)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluorododecanoic acid (PFDoA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluoroheptanoic acid (PFHpA)	NC	ng/L	1.7	1.8	2	1.5 U	1.6 U	1.6 U	1.5 U	0.53 J	3.2 U	3.2 U	3 U	0.82 J	0.94 J	0.86 J
Perfluorohexane sulfonic acid (PFHxS)	NC	ng/L	1.3 J	1.4 J	1.4	1.5 U	1.6 U	1.6 U	1.5 U	0.48 J	3.2 U	3.2 U	3 U	1.1 J	0.87 J	0.88 J
Perfluorohexanoic acid (PFHxA)	NC	ng/L	3.6	4	3.8	1.5 U	1.6 U	0.42 J	0.69 J	1.2 J	1.3 J	1.3 J	3 U	1.7	2.4	1.8
Perfluorononane sulfonic acid (PFNS)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluorononanoic acid (PFNA)	NC	ng/L	1.6 U	0.39 J	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluorooctane sulfonamide (PFOSA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluorooctane sulfonic acid (PFOS)	2.7	ng/L	0.57 J	0.68 J	0.78 J	0.4 J	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.2 J	1 J	0.78 J
Perfluorooctanoic acid (PFOA)	6.7	ng/L	2.1	2.4	2.4	0.41 J	1.6 U	1.6 U	1.5 U	1 J	1.4 J	1.5 J	0.87 J	4.2	4.1	3.5
Perfluoropentane sulfonic acid (PFPeS)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluoropentanoic acid (PFPeA)	NC	ng/L	9.8	10	10	3.1 U	3.2 U	1.1 J	1.7 J	1.4 J	6.4 U	6.4 U	6 U	2.4 J	2.6 J	2.5 J
Perfluorotetradecanoic acid (PFTA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluorotridecanoic acid (PFTrDA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Perfluoroundecanoic acid (PFUnA)	NC	ng/L	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3 U	1.6 U	1.7 U	1.6 U
Total Detected PFAS (TDP)	NC	ng/L	29.78	32.09	31.31	2.21	1.1	3.52	5.15	16.41	18.7	12.8	3.77	27.62	26.21	23.42

Notes
Samples were analyzed for PFAS (40 Compound List) by United States Environmental Protection Agency Method 1633.

feet bgs - Feet below ground surface.
NC - No Criteria
J - Estimated value.
PFAS - Per- and polyfluoroalkyl substances.
ng/L - nanograms per liter.
U - Analyte was not detected at specified quantitation limit.

NYSDEC - New York State Department of Environmental Conservation
GA Value - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water.
Bold - Indicates the result exceeds the NYSDEC Class GA Value

Table 6
New York State Department of Environmental Conservation
Dutchess County Fire Training Center - Site No. 314128
Summary of Groundwater Elevation Measurements - April 2025

Well ID	Screened Strata	Gauge Date	TOR Elevation (feet)	Depth to Water (feet below TOR)	Depth to Bottom (feet below TOR)	Water Elevation (feet)
MW-102	Overburden	4/21/2025	217.25	3.49	10.00	213.76
MW-103	Overburden	4/21/2025	218.58	4.60	5.90	213.98
MW-104	Overburden	4/21/2025	214.94	1.55	11.28	213.39
MW-105	Overburden	4/21/2025	214.08	1.17	12.83	212.91
MW-106	Overburden	4/21/2025	215.12	2.80	12.20	212.32
MW-202	Overburden	4/21/2025	218.12	6.30	11.78	211.82
MW-203	Overburden	4/21/2025	215.18	2.10	7.35	213.08
MW-204	Overburden	4/21/2025	217.99	6.00	10.32	211.99
MW-205	Overburden	4/21/2025	214.31	2.27	6.40	212.04
MW-206	Overburden	4/21/2025	216.12	3.91	7.85	212.21
MW-207	Overburden	4/21/2025	217.28	4.28	10.10	213.00
MW-208	Overburden	4/21/2025	220.89	8.43	10.79	212.46
MW-301	Overburden	4/21/2025	217.90	4.75	10.25	213.15
MW-302	Overburden	4/21/2025	218.22	6.00	12.35	212.22
BMW-101	Bedrock	4/21/2025	217.17	2.08	28.25	215.09
BMW-102	Bedrock	4/21/2025	216.18	0.00	39.45	216.18
BMW-103	Bedrock	4/21/2025	219.89	6.91	34.72	212.98
BMW-104	Bedrock	4/21/2025	217.25	4.45	37.80	212.80
BMW-105	Bedrock	4/21/2025	216.39	2.87	32.68	213.52
Fall Kill	Surface Water	4/22/2025	NA	2.96*	NA	211.08

Notes

Survey information for all Site Characterization (SC) monitoring well locations (MW-102 through MW-106) is based on a global positioning system (GPS) survey completed by Susan M. Anacker, PLS on November 25, 2019.

Survey information for all Phase II Remedial Investigation (RI) monitoring well locations (MW-202 through MW-208) is based on a GPS survey completed by Susan M. Anacker, PLS on November 17, 2022.

Survey information for all Phase III RI monitoring well locations (MW-301, MW-302, and BMW-101 through BMW-105) and the Fall Kill stream gauge is based on a GPS survey completed by Susan M. Anacker, PLS on April 22, 2025.

Elevation datum is North American Vertical Datum of 1988 (NAVD 88).

*Surface water depth collected via installed staff gauge within the Fall Kill.

ID : Identification.
NA : Not Applicable.
TOR : Top of Riser.

Table 8
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Groundwater Sample Analytical Results (April 2025)

Location:			BMW-101	BMW-102		BMW-103	BMW-104	BMW-105	MW-301	MW-302
Sample ID:			DCFTC-BMW-101	DCFTC-BMW-102	DCFTC-DUP-01	DCFTC-BMW-103	DCFTC-BMW-104	DCFTC-BMW-105	DCFTC-MW-301	DCFTC-MW-302
Sample Delivery Group:			4802288911	4802288911	4802288911	4802288911	4802288911	4802288911	4802288911	4802288911
Sample Date:			04/21/2025	04/21/2025	04/21/2025	04/21/2025	04/22/2025	04/22/2025	04/22/2025	04/22/2025
Analyte	**GA Value**	**Unit**	**Results**							
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NC	ng/L	7.3 U	7 U	7.4 U	BMW-103 U	7.3 U	7 U	7.2 U	7.1 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NC	ng/L	46 U	44 U	46 U	45 U	46 U	44 U	45 U	44 U
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NC	ng/L	9.2 U	8.8 U	9.3 U	9.1 U	9.2 U	8.7 U	9 U	8.8 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NC	ng/L	46 U	44 U	46 U	45 U	46 U	44 U	45 U	44 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	NC	ng/L	7.3 U	7 U	7.4 U	7.2 U	7.3 U	7 U	7.2 U	7.1 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NC	ng/L	7.3 U	7 U	7.4 U	7.2 U	7.3 U	7 U	7.2 U	7.1 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	ng/L	3.7 J	7 U	7.4 U	280	110	67	170	84
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	ng/L	7.3 U	7 U	7.4 U	7.2 U	7.3 U	7 U	7.2 U	7.1 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NC	ng/L	7.3 U	7 U	7.4 U	7.2 U	7.3 U	7 U	7.2 U	7.1 U
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	NC	ng/L	18 U	18 U	19 U	18 U	18 U	17 U	18 U	18 U
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	NC	ng/L	18 U	18 U	19 U	18 U	18 U	17 U	18 U	18 U
N-Methylperfluorooctane sulfonamide (NMeFOSA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NC	ng/L	3.7 U	3.5 U	3.7 U	3.6 U	3.7 U	3.5 U	3.6 U	3.5 U
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	NC	ng/L	7.3 U	7 U	7.4 U	7.2 U	7.3 U	7 U	7.2 U	7.1 U
Perfluoro-3,6-dioxaheptanoic acid (PFPE-3)	NC	ng/L	3.7 U	3.5 U	3.7 U	3.6 U	3.7 U	3.5 U	3.6 U	3.5 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NC	ng/L	1.4 J	3.5 U	3.7 U	3.6 U	3.7 U	3.5 U	3.6 U	3.5 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NC	ng/L	3.7 U	3.5 U	3.7 U	3.6 U	3.7 U	3.5 U	3.6 U	3.5 U
Perfluorobutane sulfonic acid (PFBS)	NC	ng/L	0.62 J	0.83 J	0.8 J	1.8 U	7.3	7.9	3.6	0.83 J
Perfluorobutanoic acid (PFBA)	NC	ng/L	12	7 U	7.4 U	5.7 J	4.1 J	4 J	7.2 U	7.1 U
Perfluorodecane sulfonic acid (PFDS)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluorodecanoic acid (PFDA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluorododecane sulfonic acid (PFDoS)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluorododecanoic acid (PFDoA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluoroheptanoic acid (PFHpA)	NC	ng/L	4.2	1.8 U	1.9 U	0.53 J	0.66 J	0.8 J	1.8 U	1.8 U
Perfluorohexane sulfonic acid (PFHxS)	NC	ng/L	3.6	1.8 U	1.9 U	0.5 J	0.49 J	0.94 J	0.52 J	0.54 J
Perfluorohexanoic acid (PFHxA)	NC	ng/L	8.7	1.8 U	1.9 U	2.5	2.7	2 J	1.3 J	0.62 J
Perfluorononane sulfonic acid (PFNS)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluorononanoic acid (PFNA)	NC	ng/L	0.73 J	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluorooctane sulfonamide (PFOSA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluorooctane sulfonic acid (PFOS)	2.7	ng/L	1.2 J	1.8 U	1.9 U	1.8 U	0.66 J	1.1 J	0.49 J	1 J
Perfluorooctanoic acid (PFOA)	6.7	ng/L	3.7	1.8 U	1.9 U	1.8 U	1.4 J	4.4	1.7 J	1.8 U
Perfluoropentane sulfonic acid (PFPeS)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluoropentanoic acid (PFPeA)	NC	ng/L	17	3.5 U	3.7 U	2.6 J	1.7 J	2 J	3.6 U	3.5 U
Perfluorotetradecanoic acid (PFTA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluorotridecanoic acid (PFTrDA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Perfluoroundecanoic acid (PFUnA)	NC	ng/L	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Total Detected PFAS (TDP)	NC	ng/L	56.85	0.83	0.8	291.83	129.01	90.14	177.61	86.99

Notes
Samples were analyzed for PFAS (40 Compound List) by United States Environmental Protection Agency Method 1633.

feet bgs - Feet below ground surface.
NC - No Criteria
J - Estimated value.
PFAS - Per- and polyfluoroalkyl substances.
ng/L - nanograms per liter.
U - Analyte was not detected at specified quantitation limit.

NYSDEC - New York State Department of Environmental Conservation
GA Value - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water.
Bold - Indicates the result exceeds the NYSDEC Class GA Value

Table 8
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Hydraulic Conductivity Data

Well ID:	Falling Head or Rising Head Test	Horizontal Bulk Hydraulic Conductivity (cm/sec)	Horizontal Bulk Hydraulic Conductivity (ft/day)	Equivalent Fracture Hydraulic Conductivity (cm/sec)	Equivalent Fracture Hydraulic Conductivity (ft/day)	Aquifer Type	Hydrogeology of Screened Interval	Method
Bedrock Wells								
BMW-102	FH1	4.795E-04	1.4	1.262E-03	3.6	Confined	Fractured bedrock	Hvorslev
	RH1	5.102E-04	1.4	1.343E-03	3.8			Hvorslev
	FH2	4.905E-04	1.4	1.291E-03	3.7			KGS
	RH2	5.561E-04	1.6	1.463E-03	4.1			Hvorslev
BMW-102 Geomean		*5.08E-04*	*1.4*	*1.34E-03*	*3.8*			
BMW-103	FH1	5.023E-04	1.4	5.374E-04	1.5	Confined	Fractured bedrock	Hvorslev
	RH1	5.259E-04	1.5	5.627E-04	1.6			Hvorslev
	FH2	5.886E-04	1.7	6.298E-04	1.8			Hvorslev
	RH2	5.863E-04	1.7	6.273E-04	1.8			Hvorslev
BMW-103 Geomean		*5.49E-04*	*1.6*	*5.88E-04*	*1.7*			
BMW-104	FH1	1.442E-05	0.04	1.411E-05	0.04	Confined	Fractured bedrock	Hvorslev
BMW-104 [(a)]	RH2	2.308E-06	0.01	2.258E-06	0.01			Hvorslev
BMW-104 Geomean		*5.77E-06*	*0.02*	*5.64E-06*	*0.02*			
BMW-105	FH1	2.474E-03	7.0	4.95E-03	14.0	Confined	Fractured bedrock	Hvorslev
	RH1	2.700E-03	7.7	5.40E-03	15.3			Hvorslev
	FH2	2.160E-03	6.1	4.32E-03	12.2			Hvorslev
	RH2	2.131E-03	6.0	4.26E-03	12.1			Hvorslev
	FH3	2.349E-03	6.7	4.70E-03	13.3			Hvorslev
	RH3	2.083E-03	5.9	4.17E-03	11.8			Hvorslev
BMW-105 Geomean		*2.31E-03*	*6.5*	*4.61E-03*	*13.1*			
Overburden Wells								
MW-104	FH1	7.613E-03	21.6	---	---	Unconfined	Clay with gravel. Quantity of gravel increases at depth	Dagan
	RH1	7.367E-03	20.9	---	---			Dagan
	FH2	7.751E-03	22.0	---	---			Dagan
	RH2	7.820E-03	22.2	---	---			Dagan
MW-104 Geomean		*7.64E-03*	*21.6*	---	---			
MW-105	FH	1.097E-04	0.31	---	---	Unconfined	Clay with some gravel	KGS
	RH	4.930E-05	0.14	---	---			KGS
MW-105 Geomean		*7.35E-05*	*0.21*	---	---			
MW-106	FH1	6.201E-03	17.6	---	---	Unconfined	Silt and Sand with some brick and asphalt	KGS
	RH1	5.292E-03	15.0	---	---			KGS
	FH2	6.991E-03	19.8	---	---			KGS
	RH2	6.233E-03	17.7	---	---			KGS
	FH3	8.104E-03	23.0	---	---			KGS
	RH3	5.559E-03	15.8	---	---			KGS
MW-106 Geomean		*6.33E-03*	*17.9*	---	---			
MW-301	FH	1.872E-04	0.53	---	---	Unconfined	Silt with gravel and cobbles	Dagan
	RH	1.732E-04	0.49	---	---			Dagan
MW-301 Geomean		*1.80E-04*	*0.51*	---	---			
MW-302	FH1	5.765E-02	163.4	---	---	Unconfined	Silt with trace gravel overlying coarse sand with trace gravel.	Dagan
	RH1	5.457E-02	154.7	---	---			KGS/Dagan
	FH2	NC	NC	---	---			---
	RH2	4.418E-02	125.2	---	---			Dagan
	FH3	5.141E-02	145.7	---	---			Bouwer & Rice
	RH3	4.970E-02	140.9	---	---			Dagan
MW-302 Geomean		*5.13E-02*	*145.4*	---	---			

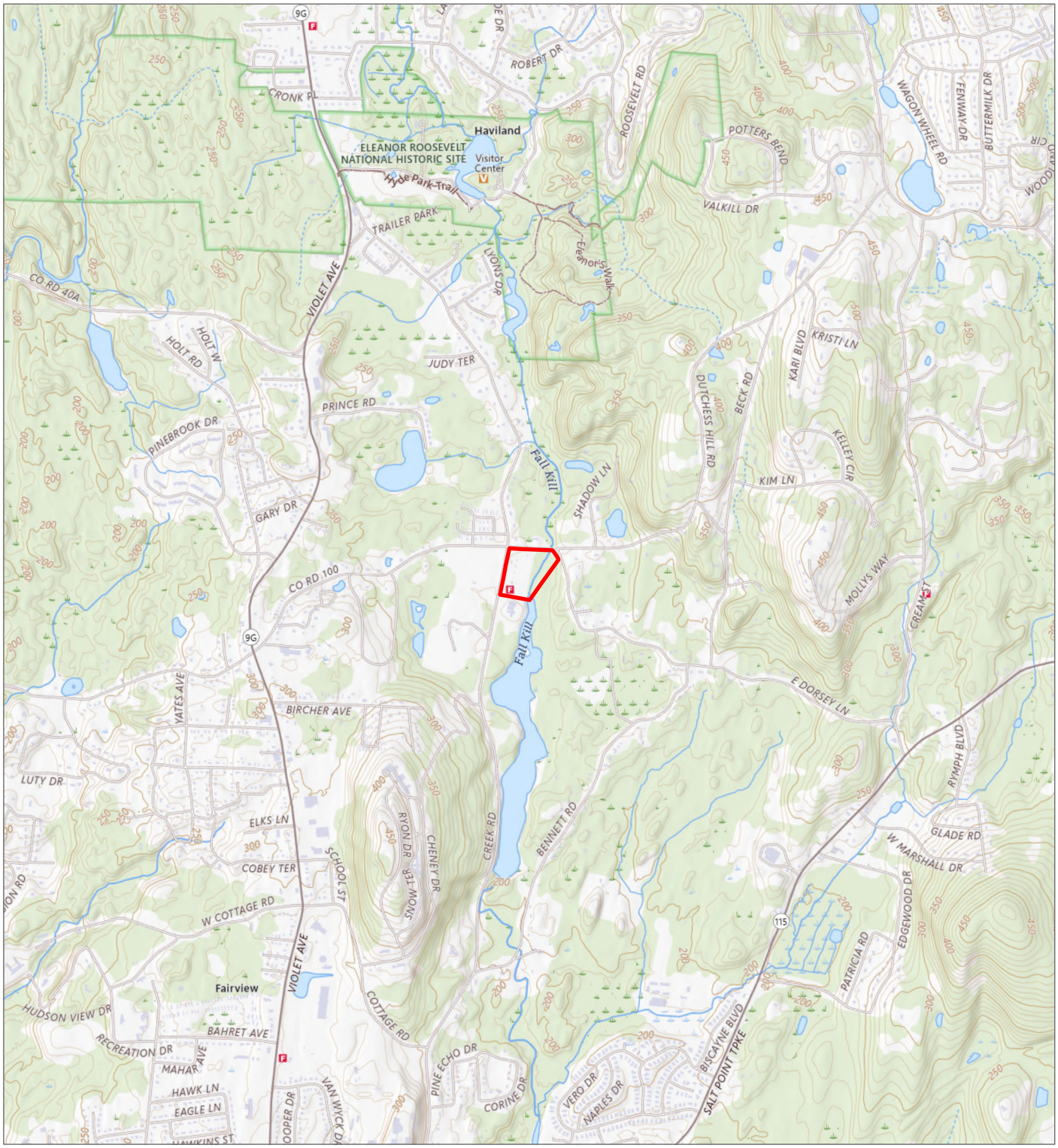
Notes:
RH - Rising Head.
FH - Falling Head.
NC - Not calculated. Curve or straight-line could not be fitted to data due to rapid return to static and degree pf scatter in the data.
ft - feet
cm/sec - centimeters per second
[(a)] - Hydraulic conductivity likley underestimated due to incomplete recovery from falling head test.

Table 9
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
Summary of Equipment Blank Analytical Results

Sample ID:		DCFTC-EB-01	DCFTC-EB-02	DCFTC-EB-03	DCFTC-EB-04	DCFTC-EB-05	DCFTC-EB-06	DCFTC-EB-07	DCFTC-EB-08	DCFTC-EB-01
Sample Delivery Group:		4802220671	4802220671	4802220661	4802235951	4802235951	4802235951	4802238131	4802238131	4802288911
Sample Date:		07/23/2024	07/24/2024	07/25/2024	09/06/2024	09/12/2024	09/17/2024	09/24/2024	09/26/2024	04/21/2025
Analyte	**Unit**	**Results**								
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ng/L	NA	NA	NA	6.6 U	6.5 U	6.6 U	5.9 U	5.9 U	7.0 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ng/L	NA	NA	NA	41 U	41 U	41 U	37 U	37 U	44 U
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	ng/L	NA	NA	NA	8.3 U	8.2 U	8.3 U	7.4 U	7.3 U	8.8 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ng/L	NA	NA	NA	41 U	41 U	41 U	37 U	37 U	44 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ng/L	NA	NA	NA	6.6 U	6.5 U	6.6 U	5.9 U	5.9 U	7.0 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ng/L	NA	NA	NA	6.6 U	6.5 U	6.6 U	5.9 U	5.9 U	7.0 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ng/L	7.4	4.5 U	4.0 U	6.6 U	6.5 U	6.6 U	5.9 U	5.9 U	130
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ng/L	2.7	1.8 U	1.6 U	6.6 U	6.5 U	6.6 U	5.9 U	5.9 U	7.0 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ng/L	NA	NA	NA	6.6 U	6.5 U	6.6 U	5.9 U	5.9 U	7.0 U
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ng/L	4.6 U	4.5 U	4.0 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ng/L	NA	NA	NA	17 U	16 U	17 U	15 U	15 U	18 U
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ng/L	NA	NA	NA	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ng/L	4.6 U	4.5 U	4.0 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ng/L	NA	NA	NA	17 U	16 U	17 U	15 U	15 U	18 U
N-Methylperfluorooctane sulfonamide (NMeFOSA)	ng/L	NA	NA	NA	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ng/L	NA	NA	NA	3.3 U	3.3 U	3.3 U	2.9 U	2.9 U	3.5 U
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ng/L	NA	NA	NA	6.6 U	6.5 U	6.6 U	5.9 U	5.9 U	7.0 U
Perfluoro-3,6-dioxaheptanoic acid (PFPE-3)	ng/L	NA	NA	NA	3.3 U	3.3 U	3.3 U	2.9 U	2.9 U	3.5 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	ng/L	NA	NA	NA	3.3 U	3.3 U	3.3 U	2.9 U	2.9 U	3.5 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	ng/L	NA	NA	NA	3.3 U	3.3 U	3.3 U	2.9 U	2.9 U	3.5 U
Perfluorobutane sulfonic acid (PFBS)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorobutanoic acid (PFBA)	ng/L	1.2 J	4.5 U	4.0 U	6.6 U	6.5 U	6.6 U	5.9 U	5.9 U	7.0 U
Perfluorodecane sulfonic acid (PFDS)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorodecanoic acid (PFDA)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorododecane sulfonic acid (PFDoS)	ng/L	NA	NA	NA	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorododecanoic acid (PFDoA)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluoroheptane sulfonic acid (PFHpS)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluoroheptanoic acid (PFHpA)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorohexane sulfonic acid (PFHxS)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorohexanoic acid (PFHxA)	ng/L	0.97 J	1.8 U	1.6 U	1.7 U	1.6 U	0.44 J	1.5 U	0.41 J	1.4 J
Perfluorononane sulfonic acid (PFNS)	ng/L	NA	NA	NA	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorononanoic acid (PFNA)	ng/L	0.20 J	0.31 J	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorooctane sulfonamide (PFOSA)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorooctane sulfonic acid (PFOS)	ng/L	1.2 J	3.1	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorooctanoic acid (PFOA)	ng/L	0.47 J	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluoropentane sulfonic acid (PFPeS)	ng/L	NA	NA	NA	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluoropentanoic acid (PFPeA)	ng/L	0.79 J	1.8 U	1.6 U	3.3 U	3.3 U	3.3 U	2.9 U	2.9 U	3.5 U
Perfluorotetradecanoic acid (PFTA)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluorotridecanoic acid (PFTrDA)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Perfluoroundecanoic acid (PFUnA)	ng/L	1.8 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.5 U	1.5 U	1.8 U
Total Detected PFAS (TDP)	ng/L	14.93	3.41	--	--	--	0.44	--	0.41	131.4

Notes
J - Estimated value.
PFAS - Per- and polyfluoroalkyl substances.
ng/L - nanograms per liter.
NA - Not analyzed.
U - Analyte was not detected at specified quantitation limit.

Figures



LEGEND

SITE LOCATION

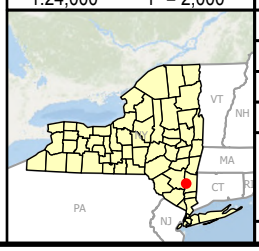
BASE MAP: USGS TOPOGRAPHIC MAP SERVICE, POUGHKEEPSIE NEW YORK QUAD

N

0 1,000 2,000

FEET

1:24,000 1" = 2,000'



PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

TITLE:

SITE LOCATION MAP

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. KING		
APPROVED BY:	J. MAGDA		FIGURE 1
DATE:	AUGUST 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PHASEIII_RI

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW YORK EAST FIPS 3101 FEET; MAP ROTATION: 0
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LEGEND

- TAX PARCEL BOUNDARY
- ONSITE WATER IMPOUNDMENT
- SURFACE WATER FLOW DIRECTION
- CULVERT OR STORM SEWER AND FLOW DIRECTION
- FENCELINE
- MECHANICAL PIPE PLUG

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND PROPERTY BOUNDARIES ARE APPROXIMATE.

BASE MAP: NEARMAP IMAGERY DATED 4/14/2022
SHEET SIZE: 11X17L

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

TITLE:
SITE LAYOUT MAP

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. KING		**FIGURE 2**
APPROVED BY:	J. MAGDA		
DATE:	AUGUST 2025		

TRC
3 Corporate Drive
Suite 202
Clifton Park, NY 12065
Phone: 518.348.1190

FILE: PhaseIII_RI.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
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Layout Name: Fig02_Site_Layout_Map



LEGEND

- TAX PARCEL BOUNDARY
- FENCELINE
- BEDROCK MONITORING WELL
- OVERBURDEN MONITORING WELL
- ASPHALT SAMPLE LOCATION
- CONCRETE SAMPLE LOCATION
- VEGETATION SAMPLE LOCATION
- STREAM GAUGE
- STAFF GAUGE

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

BASE MAP: NEAR MAP IMAGERY DATED 4/14/2022
SHEET SIZE: 11X17L

N

1:1,200
1" = 100'

0 50 100 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

TITLE:
PHASE III RI
SAMPLE LOCATION MAP

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. MCCORMICK		
APPROVED BY:	J. KING		**FIGURE 3**
DATE:	AUGUST 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PhaseIII_RI.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
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SN-101	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	ND
PFOA	ug/kg	ND
TDP	ug/kg	4.72

SN-102	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	35
PFOA	ug/kg	1.1
TDP	ug/kg	52.09

SN-103	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	82
PFOA	ug/kg	1.5
TDP	ug/kg	115.06

SN-104	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	22
PFOA	ug/kg	0.36
TDP	ug/kg	31.68

SN-105	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	150
PFOA	ug/kg	0.78
TDP	ug/kg	171.2

SN-106	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	1.1
PFOA	ug/kg	2.6
TDP	ug/kg	48.82

SN-107	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	15
PFOA	ug/kg	6.9
TDP	ug/kg	131.22

SN-108	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	ND
PFOA	ug/kg	0.57
TDP	ug/kg	18.88

TP-101	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	8.7
PFOA	ug/kg	ND
TDP	ug/kg	11.91

TP-102	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	8.2
PFOA	ug/kg	ND
TDP	ug/kg	17.69

TP-103	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	ND
PFOA	ug/kg	ND
TDP	ug/kg	ND

TP-104	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	10
PFOA	ug/kg	0.50
TDP	ug/kg	17.87

TP-105	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	2.9
PFOA	ug/kg	ND
TDP	ug/kg	2.9

TP-106	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	ND
PFOA	ug/kg	ND
TDP	ug/kg	1.7

TP-107	Sample Date	07/02/2024
PFAS	Unit	Results
PFOS	ug/kg	130
PFOA	ug/kg	ND
TDP	ug/kg	158.3

MW-102, MW-103, MW-104, MW-105, MW-106, MW-107, MW-202, MW-203, MW-204, MW-205, MW-206, SN-101, SN-102, SN-103, SN-104, SN-105, SN-106, SN-107, SN-108, TP-101, TP-102, TP-103, TP-104, TP-105, TP-106, TP-107, Fall Kill, 133200 6163-02-876617-0000

LEGEND

- TAX PARCEL BOUNDARY
- FENCELINE
- ASPHALT SAMPLE LOCATION
- CONCRETE SAMPLE LOCATION
- VEGETATION SAMPLE LOCATION
- OVERBURDEN MONITORING WELL

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. SAMPLES WERE ANALYZED FOR PFAS (21 COMPOUND LIST) BY UNITED STATES ENVIRONMENTAL PROTECTION AGENCY METHOD 537.
3. NO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION STANDARDS, GUIDANCE, AND CRITERIA EXIST FOR ASPHALT, CONCRETE, OR VEGETATION.
4. FOR FIGURE CLARITY, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLES AND/OR LABORATORY ANALYTICAL REPORTS FOR DUPLICATE DATA AND QUALIFIERS.

ACRONYMS:
ug/kg - MICROGRAMS PER KILOGRAM
ND - RESULT IS NON-DETECT
PFOS - PERFLUOROCTANE SULFONIC ACID
PFOA - PERFLUOROOCTANOIC ACID
PFAS - PER- AND POLYFLUOROALKYL SUBSTANCES
TDP - TOTAL DETECTED PFAS

BASE MAP: NEAR MAP IMAGERY DATED 4/14/2022
SHEET SIZE: 11X17L

N

1:480
1" = 40'
0 20 40 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

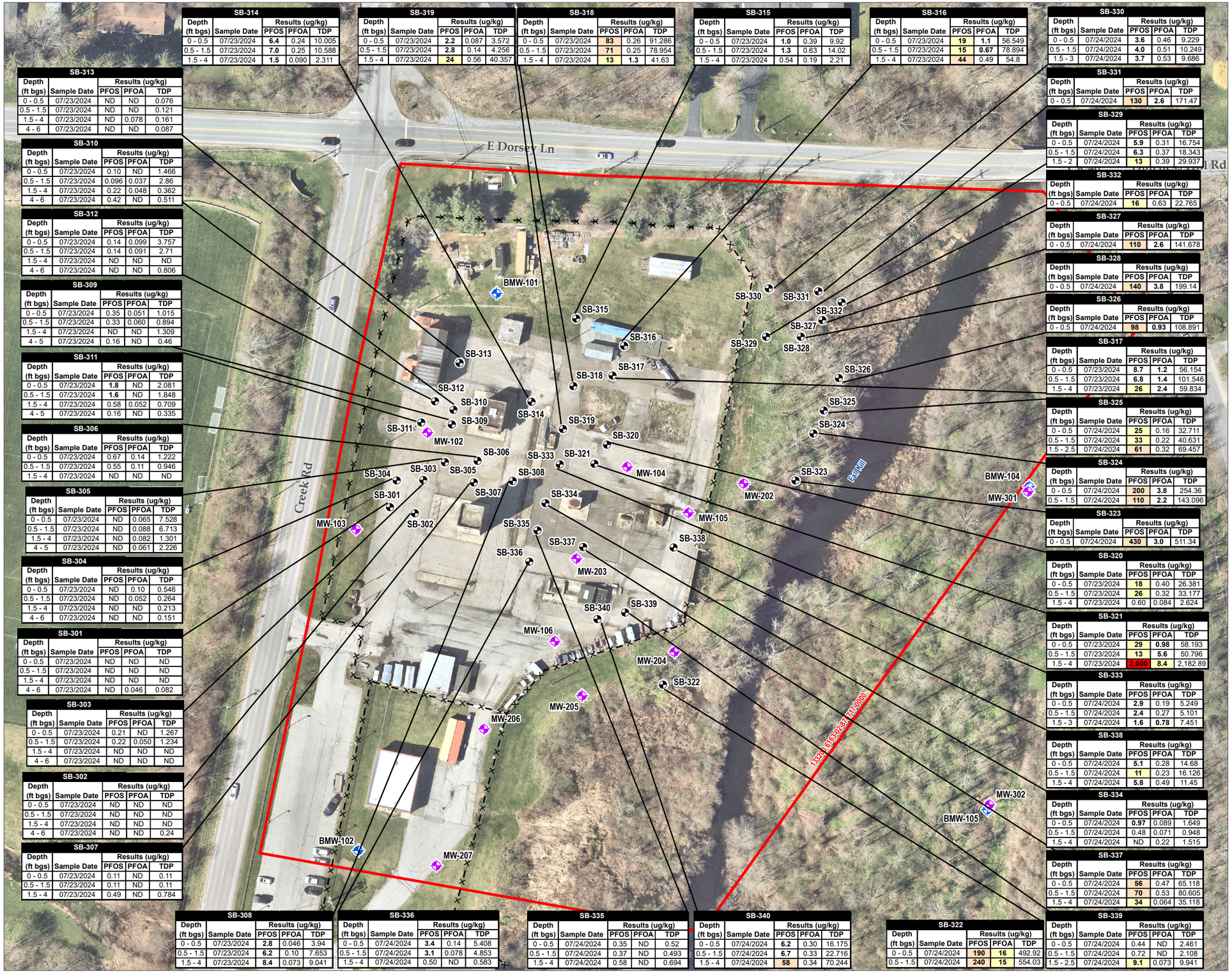
TITLE:
PHASE III RI
SURFACE COVERING AND VEGETATION SAMPLES
SUMMARY OF SELECT PFAS RESULTS

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. MCCORMICK		FIGURE 4
APPROVED BY:	J. KING		
DATE:	AUGUST 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PhaseIII_RI.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
Saved By: LLILL on 8/14/2025, 09:49:15 AM; File Path: T:\1_PROJECTS\NYSDEC\453208_DutchessCountyFireTraining\2-APRX\Phase III_RI\Phase III_RI.aprx;
Layout Name: Fig04_PhaseIIIRI_Surface_Covering_and_Vegetation_Samples_Summary_of_Select_PFAS_Results



SB-313

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	ND	ND	0.076
0.5 - 1.5	07/23/2024	ND	ND	0.121
1.5 - 4	07/23/2024	ND	0.078	0.161
4 - 6	07/23/2024	ND	ND	0.087

SB-310

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	0.10	ND	1.466
0.5 - 1.5	07/23/2024	0.096	0.037	2.86
1.5 - 4	07/23/2024	0.22	0.048	0.362
4 - 6	07/23/2024	0.42	ND	0.511

SB-312

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	0.14	0.099	3.757
0.5 - 1.5	07/23/2024	0.14	0.091	2.71
1.5 - 4	07/23/2024	ND	ND	ND
4 - 6	07/23/2024	ND	ND	0.806

SB-309

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	0.35	0.051	1.015
0.5 - 1.5	07/23/2024	0.33	0.060	0.894
1.5 - 4	07/23/2024	ND	ND	1.309
4 - 5	07/23/2024	0.16	ND	0.46

SB-311

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**1.8**	ND	2.081
0.5 - 1.5	07/23/2024	**1.6**	ND	1.848
1.5 - 4	07/23/2024	0.58	0.052	0.709
4 - 5	07/23/2024	0.16	ND	0.335

SB-306

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	0.67	0.14	1.222
0.5 - 1.5	07/23/2024	0.55	0.11	0.946
1.5 - 4	07/23/2024	ND	ND	ND

SB-305

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	ND	0.065	7.528
0.5 - 1.5	07/23/2024	ND	0.088	6.713
1.5 - 4	07/23/2024	ND	0.082	1.301
4 - 5	07/23/2024	ND	0.061	2.226

SB-304

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	ND	0.10	0.546
0.5 - 1.5	07/23/2024	ND	0.052	0.264
1.5 - 4	07/23/2024	ND	ND	0.213
4 - 6	07/23/2024	ND	ND	0.151

SB-301

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	ND	ND	ND
0.5 - 1.5	07/23/2024	ND	ND	ND
1.5 - 4	07/23/2024	ND	ND	ND
4 - 6	07/23/2024	ND	0.046	0.082

SB-303

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	0.21	ND	1.267
0.5 - 1.5	07/23/2024	0.22	0.050	1.234
1.5 - 4	07/23/2024	ND	ND	ND
4 - 6	07/23/2024	ND	ND	ND

SB-302

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	ND	ND	ND
0.5 - 1.5	07/23/2024	ND	ND	ND
1.5 - 4	07/23/2024	ND	ND	ND
4 - 6	07/23/2024	ND	ND	0.24

SB-307

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	0.11	ND	0.11
0.5 - 1.5	07/23/2024	0.11	ND	0.11
1.5 - 4	07/23/2024	0.49	ND	0.784

SB-314

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**6.4**	0.24	10.005
0.5 - 1.5	07/23/2024	**7.0**	0.25	10.588
1.5 - 4	07/23/2024	**1.5**	0.090	2.311

SB-319

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**2.2**	0.087	3.572
0.5 - 1.5	07/23/2024	**2.8**	0.14	4.256
1.5 - 4	07/23/2024	**24**	0.56	40.357

SB-318

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**83**	0.26	91.286
0.5 - 1.5	07/23/2024	**71**	0.25	78.954
1.5 - 4	07/23/2024	**13**	**1.3**	41.63

SB-315

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**1.0**	0.39	9.92
0.5 - 1.5	07/23/2024	**1.3**	0.63	14.02
1.5 - 4	07/23/2024	0.54	0.19	2.21

SB-316

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**19**	**1.1**	56.549
0.5 - 1.5	07/23/2024	**15**	**0.67**	78.894
1.5 - 4	07/23/2024	**44**	0.49	54.8

SB-330

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**3.6**	0.46	9.229
0.5 - 1.5	07/24/2024	**4.0**	0.51	10.249
1.5 - 3	07/24/2024	**3.7**	0.53	9.686

SB-331

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**130**	**2.6**	171.47

SB-329

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**5.9**	0.31	16.754
0.5 - 1.5	07/24/2024	**6.3**	0.37	18.343
1.5 - 2	07/24/2024	**13**	0.39	29.937

SB-332

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**16**	0.63	22.765

SB-327

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**110**	**2.6**	141.678

SB-328

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**140**	**3.8**	199.14

SB-326

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**98**	**0.93**	108.891

SB-317

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**8.7**	**1.2**	56.154
0.5 - 1.5	07/23/2024	**6.8**	**1.4**	101.546
1.5 - 4	07/23/2024	**26**	**2.4**	59.834

SB-325

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**25**	0.16	32.711
0.5 - 1.5	07/24/2024	**33**	0.22	40.631
1.5 - 2.5	07/24/2024	**61**	0.32	69.457

SB-324

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**200**	**3.8**	254.36
0.5 - 1.5	07/24/2024	**110**	**2.2**	143.096

SB-323

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**430**	**3.0**	511.34

SB-320

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**18**	0.40	26.381
0.5 - 1.5	07/23/2024	**26**	0.32	33.177
1.5 - 4	07/23/2024	0.60	0.084	2.624

SB-321

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**29**	**0.98**	58.193
0.5 - 1.5	07/23/2024	**13**	**5.6**	50.796
1.5 - 4	07/23/2024	**2,000**	**8.4**	2,182.89

SB-333

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**2.9**	0.19	5.249
0.5 - 1.5	07/24/2024	**2.4**	0.27	5.101
1.5 - 3	07/24/2024	**1.6**	**0.78**	7.451

SB-338

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**5.1**	0.28	14.68
0.5 - 1.5	07/24/2024	**11**	0.23	16.126
1.5 - 4	07/24/2024	**5.8**	0.49	11.45

SB-334

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**0.97**	0.089	1.649
0.5 - 1.5	07/24/2024	0.48	0.071	0.948
1.5 - 4	07/24/2024	ND	0.22	1.515

SB-337

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**56**	0.47	65.118
0.5 - 1.5	07/24/2024	**70**	0.53	80.605
1.5 - 4	07/24/2024	**34**	0.064	35.118

SB-339

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	0.44	ND	2.461
0.5 - 1.5	07/24/2024	0.72	ND	2.108
1.5 - 2.5	07/24/2024	**9.1**	0.073	9.941

SB-308

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/23/2024	**2.8**	0.046	3.94
0.5 - 1.5	07/23/2024	**6.2**	0.10	7.653
1.5 - 4	07/23/2024	**8.4**	0.073	9.041

SB-336

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**3.4**	0.14	5.408
0.5 - 1.5	07/24/2024	**3.1**	0.078	4.853
1.5 - 4	07/24/2024	0.50	ND	0.583

SB-335

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	0.35	ND	0.52
0.5 - 1.5	07/24/2024	0.37	ND	0.493
1.5 - 4	07/24/2024	0.58	ND	0.694

SB-340

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**6.2**	0.30	16.175
0.5 - 1.5	07/24/2024	**6.7**	0.33	22.716
1.5 - 4	07/24/2024	**58**	0.34	70.244

SB-322

Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/24/2024	**190**	**16**	492.92
0.5 - 1.5	07/24/2024	**240**	**15**	554.03

LEGEND

- TAX PARCEL BOUNDARY
- FENCELINE
- BEDROCK MONITORING WELL
- OVERBURDEN MONITORING WELL
- SOIL BORING

SCO	UUSCO	RESCO	RRSCO	CUSCO	IUSCO
Compound	ug/kg				
PFOS	0.88	8.8	44	440	440
PFOA	0.66	6.6	33	500	600
TDP	NC	NC	NC	NC	NC

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. SAMPLES WERE ANALYZED FOR PFAS (21 COMPOUND LIST) BY UNITED STATES ENVIRONMENTAL PROTECTION AGENCY METHOD 537.
2. **BOLD** TEXT INDICATES RESULT EXCEEDS NYSDEC UNRESTRICTED USE SOIL CLEANUP OBJECTIVE.
3. YELLOW FILL INDICATES RESULT EXCEEDS NYSDEC RESTRICTED USE SOIL CLEANUP OBJECTIVE.
4. ORANGE FILL INDICATES RESULT EXCEEDS NYSDEC RESTRICTED-RESIDENTIAL USE SOIL CLEANUP OBJECTIVE.
5. LIGHT RED FILL INDICATES RESULT EXCEEDS NYSDEC COMMERCIAL USE SOIL CLEANUP OBJECTIVE.
6. RED FILL INDICATES RESULT EXCEEDS NYSDEC INDUSTRIAL USE SOIL CLEANUP OBJECTIVE.
7. FOR FIGURE CLARITY, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLES AND/OR LABORATORY ANALYTICAL REPORTS FOR DUPLICATE DATA AND QUALIFIERS.
8. FOR FIGURE CLARITY, THE SITE CODE PREFIX "DCFTC-" HAS BEEN OMITTED FROM ALL SAMPLE LOCATION IDs ON THIS FIGURE.

ACRONYMS:
feet bgs - FEET BELOW GROUND SURFACE
ug/kg - MICROGRAMS PER KILOGRAM (DRY WEIGHT)
NC - NO CRITERIA
ND - RESULT IS NON-DETECT
PFOS - PERFLUOROCTANE SULFONIC ACID
PFOA - PERFLUOROOCTANOIC ACID
PFAS - PER- AND POLYFLUOROALKYL SUBSTANCES
TDP - TOTAL DETECTED PFAS
NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SCO - SOIL CLEANUP OBJECTIVE
UUSCO - NYSDEC UNRESTRICTED USE SOIL CLEANUP OBJECTIVE (SCO)
RESCO - NYSDEC RESIDENTIAL USE SOIL CLEANUP OBJECTIVE (SCO)
RRSCO - NYSDEC RESTRICTED-RESIDENTIAL USE SOIL CLEANUP OBJECTIVE (SCO)
CUSCO - NYSDEC COMMERCIAL USE SOIL CLEANUP OBJECTIVE (SCO)
IUSCO (NYSDEC INDUSTRIAL USE SOIL CLEANUP OBJECTIVE (SCO)

BASE MAP: NEAR MAP IMAGERY DATED 4/14/2022
SHEET SIZE: 11X17L

1:1,080
1" = 90'
0 45 90 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

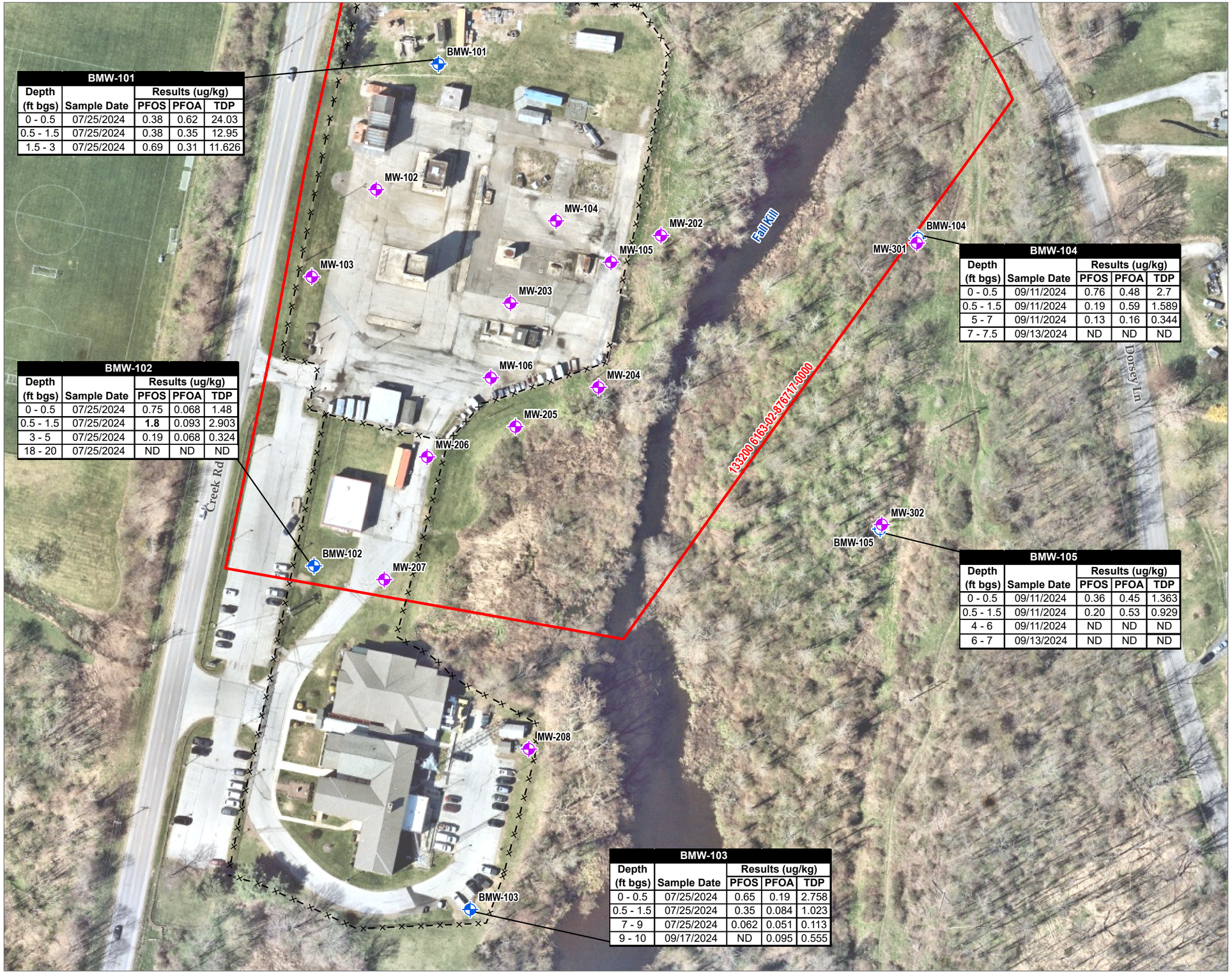
TITLE:
PHASE III RI
SUPPLEMENTAL VADOSE ZONE SOIL BORINGS SUMMARY OF SELECT PFAS RESULTS

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. MCCORMICK		
APPROVED BY:	J. KING		**FIGURE 5**
DATE:	AUGUST 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PhaseIII_RI.aprx

Layout Name: Fig05_PhaseIIIRI_Supplemental_Vadose_Zone_Soil_Borings_Summary_of_Select_PFAS_Results
Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
Saved By LILL on 8/14/2025, 9:53:57 AM; File Path: T:\1 PROJECTION\SECC\453208_DutchessCountyFireTraining\2-APRX\PhaseIII_RI\PhaseIII_RI.aprx



BMW-101				
Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/25/2024	0.38	0.62	24.03
0.5 - 1.5	07/25/2024	0.38	0.35	12.95
1.5 - 3	07/25/2024	0.69	0.31	11.626

BMW-102				
Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/25/2024	0.75	0.068	1.48
0.5 - 1.5	07/25/2024	**1.8**	0.093	2.903
3 - 5	07/25/2024	0.19	0.068	0.324
18 - 20	07/25/2024	ND	ND	ND

BMW-103				
Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	07/25/2024	0.65	0.19	2.758
0.5 - 1.5	07/25/2024	0.35	0.084	1.023
7 - 9	07/25/2024	0.062	0.051	0.113
9 - 10	09/17/2024	ND	0.095	0.555

BMW-104				
Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	09/11/2024	0.76	0.48	2.7
0.5 - 1.5	09/11/2024	0.19	0.59	1.589
5 - 7	09/11/2024	0.13	0.16	0.344
7 - 7.5	09/13/2024	ND	ND	ND

BMW-105				
Depth (ft bgs)	Sample Date	Results (ug/kg) PFOS	PFOA	TDP
0 - 0.5	09/11/2024	0.36	0.45	1.363
0.5 - 1.5	09/11/2024	0.20	0.53	0.929
4 - 6	09/11/2024	ND	ND	ND
6 - 7	09/13/2024	ND	ND	ND

LEGEND

- TAX PARCEL BOUNDARY
- FENCELINE
- BEDROCK MONITORING WELL
- OVERBURDEN MONITORING WELL

SCO	UUSCO
Compound	ug/kg
PFOS	0.88
PFOA	0.66
TDP	NC

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. ALL SAMPLES WERE ANALYZED FOR PFAS (40 COMPOUND LIST) BY UNITED STATES ENVIRONMENTAL PROTECTION AGENCY METHOD 1633.
3. **BOLD** TEXT INDICATES RESULT EXCEEDS NYSDEC UNRESTRICTED USE SOIL CLEANUP OBJECTIVE.
4. FOR FIGURE CLARITY, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLES AND/OR LABORATORY ANALYTICAL REPORTS FOR DUPLICATE DATA AND QUALIFIERS.
5. FOR FIGURE CLARITY, THE SITE CODE PREFIX "DCFTC-" HAS BEEN OMITTED FROM ALL SAMPLE LOCATION IDs ON THIS FIGURE.

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PFAS - PER- AND POLYFLUOROALKYL SUBSTANCES
TDP - TOTAL DETECTED PFAS
NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SCO - SOIL CLEANUP OBJECTIVE
UUSCO - NYSDEC UNRESTRICTED USE SOIL CLEANUP OBJECTIVE (SCO)

BASE MAP: NEAR MAP IMAGERY DATED 4/14/2022
SHEET SIZE: 11X17L

N

1:1,200
1" = 100'

0 50 100 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

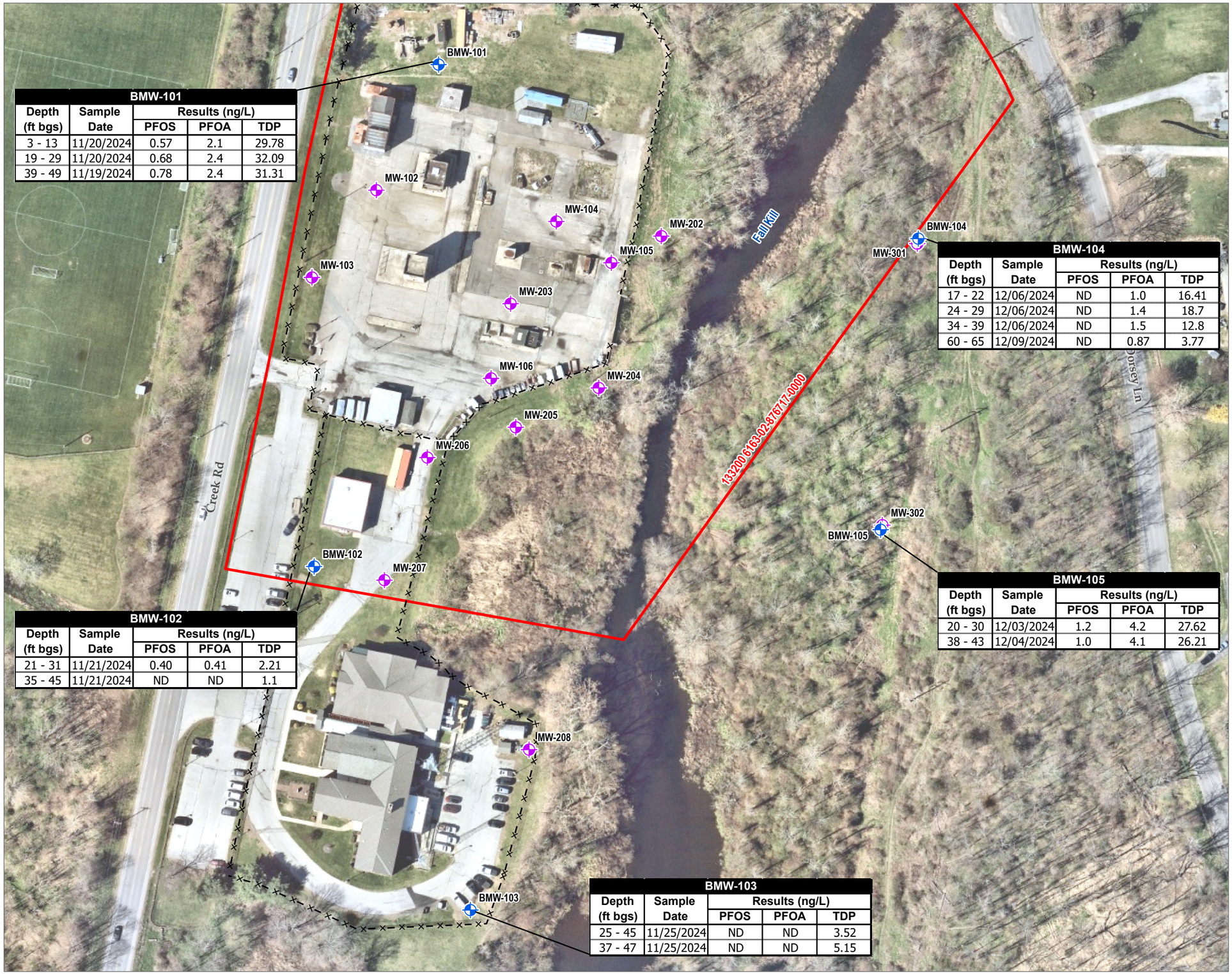
TITLE:
PHASE III RI
MONITORING WELL SOIL SAMPLING
SUMMARY OF SELECT PFAS RESULTS

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. MCCORMICK		FIGURE 6
APPROVED BY:	J. KING		
DATE:	AUGUST 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PhaseIII_RI.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
Saved By LILL on 8/14/2025, 09:51:57 AM; File Path: T:\1_PROJECTS\NYSDEC\453208_DutchessCountyFireTraining\2-APRX\PhaseIII_RI\PhaseIII_RI.aprx; Layout Name: Fig06_PhaseIIIRI_Monitoring_Well_Soil_Sampling_Summary_of_Select_PFAS_Results



BMW-101

Depth (ft bgs)	Sample Date	Results (ng/L)		
		PFOS	PFOA	TDP
3 - 13	11/20/2024	0.57	2.1	29.78
19 - 29	11/20/2024	0.68	2.4	32.09
39 - 49	11/19/2024	0.78	2.4	31.31

BMW-104

Depth (ft bgs)	Sample Date	Results (ng/L)		
		PFOS	PFOA	TDP
17 - 22	12/06/2024	ND	1.0	16.41
24 - 29	12/06/2024	ND	1.4	18.7
34 - 39	12/06/2024	ND	1.5	12.8
60 - 65	12/09/2024	ND	0.87	3.77

BMW-105

Depth (ft bgs)	Sample Date	Results (ng/L)		
		PFOS	PFOA	TDP
20 - 30	12/03/2024	1.2	4.2	27.62
38 - 43	12/04/2024	1.0	4.1	26.21

BMW-102

Depth (ft bgs)	Sample Date	Results (ng/L)		
		PFOS	PFOA	TDP
21 - 31	11/21/2024	0.40	0.41	2.21
35 - 45	11/21/2024	ND	ND	1.1

BMW-103

Depth (ft bgs)	Sample Date	Results (ng/L)		
		PFOS	PFOA	TDP
25 - 45	11/25/2024	ND	ND	3.52
37 - 47	11/25/2024	ND	ND	5.15

LEGEND

- TAX PARCEL BOUNDARY
- FENCELINE
- BEDROCK MONITORING WELL
- OVERBURDEN MONITORING WELL

ANALYTE	UNIT	CLASS GA VALUE
PFOS	ng/L	2.7
PFOA	ng/L	6.7
TDP	ng/L	NC

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.
2. FOR FIGURE CLARITY, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLES AND/OR LABORATORY ANALYTICAL REPORTS FOR DUPLICATE DATA AND QUALIFIERS.
3. FOR FIGURE CLARITY, THE SITE CODE PREFIX "DCFTC-" HAS BEEN OMITTED FROM ALL SAMPLE LOCATION IDs ON THIS FIGURE.

ACRONYMS:
ft bgs - FEET BELOW GROUND SURFACE
ng/L - NANOGRAMS PER LITER
ND - RESULT IS NON-DETECT
CLASS GA VALUE - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER, JUNE 1998 WITH THE APRIL 2000 AND FEBRUARY 2023 ADDENDA
PFOS - PERFLUOROCTANE SULFONIC ACID
PFOA - PERFLUOROOCTANOIC ACID
PFAS - PER- AND POLYFLUOROALKYL SUBSTANCES
TDP - TOTAL DETECTED PFAS
-- - NO PFAS DETECTED
NC - NO CRITERIA

BASE MAP: NEAR MAP IMAGERY DATED 4/14/2022
SHEET SIZE: 11X17L

N

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

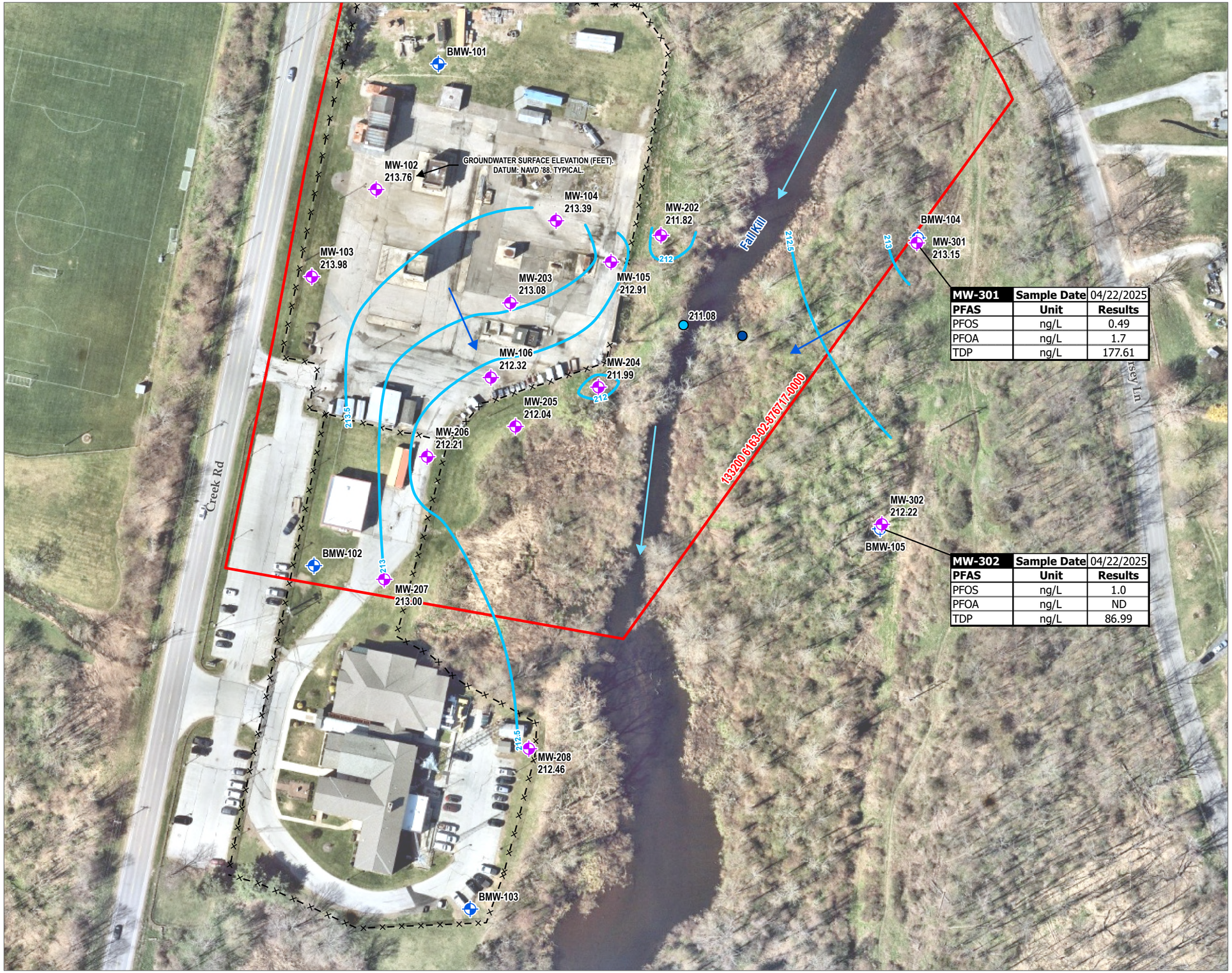
TITLE:
PHASE III RI
OPEN HOLE BEDROCK WELL PACKER TESTING
SUMMARY OF SELECT PFAS RESULTS

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. MCCORMICK		FIGURE 7
APPROVED BY:	J. KING		
DATE:	AUGUST 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PhaseIII_RI.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
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LEGEND

- TAX PARCEL BOUNDARY
- FENCELINE
- GROUNDWATER ELEVATION CONTOUR (0.5' INTERVALS)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FLOW DIRECTION
- BEDROCK MONITORING WELL
- OVERBURDEN MONITORING WELL
- STREAM GAUGE
- STAFF GAUGE

ANALYTE	UNIT	CLASS GA VALUE
PFOS	ng/L	2.7
PFOA	ng/L	6.7
TDP	ng/L	NC

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

2. POTENTIOMETRIC SURFACE ELEVATIONS WERE MEASURED ON APRIL 21, 2025. SURFACE WATER ELEVATION MEASUREMENT WAS NOT USED IN GENERATING GROUNDWATER ELEVATION CONTOURS.

3. FOR FIGURE CLARITY, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLES AND/OR LABORATORY ANALYTICAL REPORTS FOR DUPLICATE DATA AND QUALIFIERS.

4. FOR FIGURE CLARITY, THE SITE CODE PREFIX "DCFTC-" HAS BEEN OMITTED FROM ALL SAMPLE LOCATION IDs ON THIS FIGURE.

ACRONYMS:
ng/L - NANOGRAMS PER LITER
ND - RESULT IS NON-DETECT
CLASS GA VALUE - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER, JUNE 1998 WITH THE APRIL 2000 AND FEBRUARY 2023 ADDENDA
PFOS - PERFLUOROCTANE SULFONIC ACID
PFOA - PERFLUOROOCTANOIC ACID
PFAS - PER- AND POLYFLUOROALKYL SUBSTANCES
TDP - TOTAL DETECTED PFAS
-- - NO PFAS DETECTED
NC - NO CRITERIA

BASE MAP: NEAR MAP IMAGERY DATED 4/14/2022
SHEET SIZE: 11X17L

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

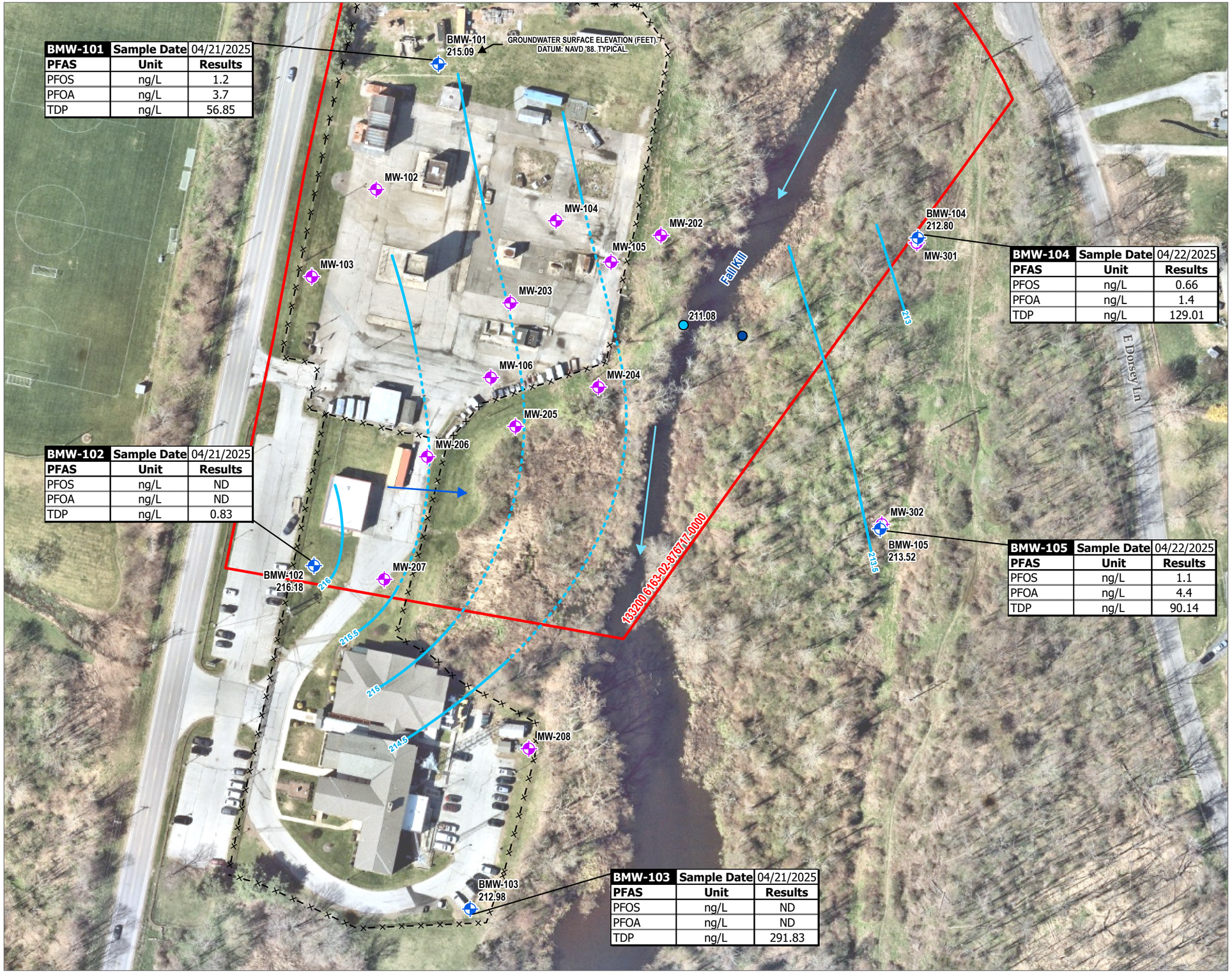
TITLE:
PHASE III RI
OVERBURDEN GROUNDWATER SAMPLING RESULTS SUMMARY OF SELECT PFAS RESULTS

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. MCCORMICK		FIGURE 8
APPROVED BY:	J. KING		
DATE:	AUGUST 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PhaseIII_RI.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
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BMW-101	Sample Date	04/21/2025
PFAS	Unit	Results
PFOS	ng/L	1.2
PFOA	ng/L	3.7
TDP	ng/L	56.85

BMW-102	Sample Date	04/21/2025
PFAS	Unit	Results
PFOS	ng/L	ND
PFOA	ng/L	ND
TDP	ng/L	0.83

BMW-103	Sample Date	04/21/2025
PFAS	Unit	Results
PFOS	ng/L	ND
PFOA	ng/L	ND
TDP	ng/L	291.83

BMW-104	Sample Date	04/22/2025
PFAS	Unit	Results
PFOS	ng/L	0.66
PFOA	ng/L	1.4
TDP	ng/L	129.01

BMW-105	Sample Date	04/22/2025
PFAS	Unit	Results
PFOS	ng/L	1.1
PFOA	ng/L	4.4
TDP	ng/L	90.14

LEGEND

- TAX PARCEL BOUNDARY
- FENCELINE
- GROUNDWATER ELEVATION CONTOUR (0.5' INTERVALS) - DASHED WHERE INFERRED
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FLOW DIRECTION
- BEDROCK MONITORING WELL
- OVERBURDEN MONITORING WELL
- STREAM GAUGE
- STAFF GAUGE

ANALYTE	UNIT	CLASS GA VALUE
PFOS	ng/L	2.7
PFOA	ng/L	6.7
TDP	ng/L	NC

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND BOUNDARIES ARE APPROXIMATE.

2. POTENTIOMETRIC SURFACE ELEVATIONS WERE MEASURED ON APRIL 21, 2025. SURFACE WATER ELEVATION COLLECTED ON APRIL 22, 2025 FOLLOWING A PROFESSIONAL LAND SURVEY. SURFACE WATER ELEVATION MEASUREMENT WAS NOT USED IN GENERATING GROUNDWATER ELEVATION CONTOURS.

3. FOR FIGURE CLARITY, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLES AND/ OR LABORATORY ANALYTICAL REPORTS FOR DUPLICATE DATA AND QUALIFIERS.

4. FOR FIGURE CLARITY, THE SITE CODE PREFIX "DCFTC-" HAS BEEN OMITTED FROM ALL SAMPLE LOCATION IDs ON THIS FIGURE.

5. DUE THE ABSENCE OF CENTRALLY LOCATED BEDROCK MONITORING WELLS TO MEASURE GROUNDWATER ELEVATIONS FROM, IT IS INFERRED THAT BEDROCK GROUNDWATER FLOW IS TOWARD THE FALL KILL.

ACRONYMS:
ng/L - NANOGRAMS PER LITER
ND - RESULT IS NON-DETECT
CLASS GA VALUE - NYSDEC AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER, JUNE 1998 WITH THE APRIL 2000 AND FEBRUARY 2023 ADDENDA
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NC - NO CRITERIA

BASE MAP: NEAR MAP IMAGERY DATED 4/14/2022
SHEET SIZE: 11X17L

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

TITLE:
PHASE III RI
BEDROCK GROUNDWATER SAMPLING RESULTS SUMMARY OF SELECT PFAS RESULTS

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	J. MCCORMICK		FIGURE 9
APPROVED BY:	J. KING		
DATE:	AUGUST 2025		

TRC
3 CORPORATE DRIVE
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CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PhaseIII_RI.aprx

Layout Name: Fig09_PhaseIIIRI_Bedrock_Groundwater_Sampling_Results_Summary_of_Select_PFAS_Results
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Attachment 1

Stream Gauge Installation Notes

Memorandum

Subject: Stream Gauge Installation
Dutchess County Fire Training Center, Poughkeepsie, NY

SUMMARY

On July 2, 2024, TRC Engineers, Inc. installed a permanent staff gauge within the Fall Kill to support hydraulic studies being performed in and around the Dutchess County Fire Training Center located at 392 Creek Road in Poughkeepsie, New York (the Site). Protective housing for future deployments a water level logger (transducer) was also installed in the immediate vicinity of the gauge. Together, the transducer and gauge will be used to continuously monitor water level height in the Fall Kill and allow comparison to groundwater levels in monitoring wells throughout the Site.

This installation began with a reconnaissance of the flowing portion of Fall Kill located east of the Site. This reach extends approximately 500-ft from the E. Dorsey Lane bridge downstream to an impounded portion of the stream. Reconnaissance was aimed at finding a section of stream channel that was representative of width, channel morphology, and flow. Best conditions were observed at the approximate geographic coordinates 41.747892°, -73.897199°.

The selected section of stream had stable streambed and banks, little to no aquatic vegetation, no evidence of beaver damming, and is readily accessible from the Site. A natural channel constriction occurs 30 feet downstream providing adequate hydraulic control. The channel bottom is rocky and uneven and comprised entirely of large rocks and boulders. Measured on July 2, 2024, channel width is approximately 16-feet with a maximum depth of 3.14 feet.

The staff gauge is bolted into a rock outcropping along the left descending bank (LDB). The transducer housing is a perforated 2-inch poly vinyl chloride (PVC) pipe positioned 0.37 feet (4.4 inches) above the bottom at mid-channel. As this is not the true bottom of the channel, the gauge is mounted such that water level readings are 0.37 feet lower less than maximum depth. For example, maximum channel depth on July 2, 2024 measured 3.14 feet while the staff gauge reading was 2.77 feet, accounting for the transducer's lifted position off the stream bottom. This is visually depicted in Figure 1 of **Attachment A**. The gauge and transducer housing lie a few feet apart on an axis that is perpendicular to stream flow, and they share the same downstream hydraulic control.

The PVC transducer housing ascends up the right descending bank (RDB) where it meets a 45-degree PVC elbow. From there it continues upwards along the bank where it is bolted to a tree above bankfull flood level. The PVC housing has been spray painted with earth tones to make it less conspicuous to recreational users of the Fall Kill.

TRC

Stream Gauge Installation
Dutchess County Fire Training Center

Channel dimension and cross-sectional area was measured on July 2, 2024 by recording depth at 48 uniformly spaced survey stations (Cells) along a measuring tape strung bank-to-bank perpendicular to stream flow. The width of each Cell was multiplied by its corresponding depth to yield area (sq ft). Graphical and tabular reporting of these measurements are provided in **Attachments A** and **B**, respectively. Figure 1 of Attachment A depicts the bottom contour of the survey transect, which appears jagged due to the prevalence of large rocks. Figure 1 also depicts the placement of the staff gauge at the LDB, and the transducer housing ascending towards the RDB. Figure 2 of Attachment A displays the channel cross-section with each bar of the histogram representing a survey Cell with associated depth and width measurements to the nearest 0.01-foot. Total cross-sectional area of the stream channel along this transect measured 37.40 square feet on July 2, 2024.

Photos of the installed gauge and transducer housing are provided in **Attachment C**.

ATTACHMENT A

Graphical Summary

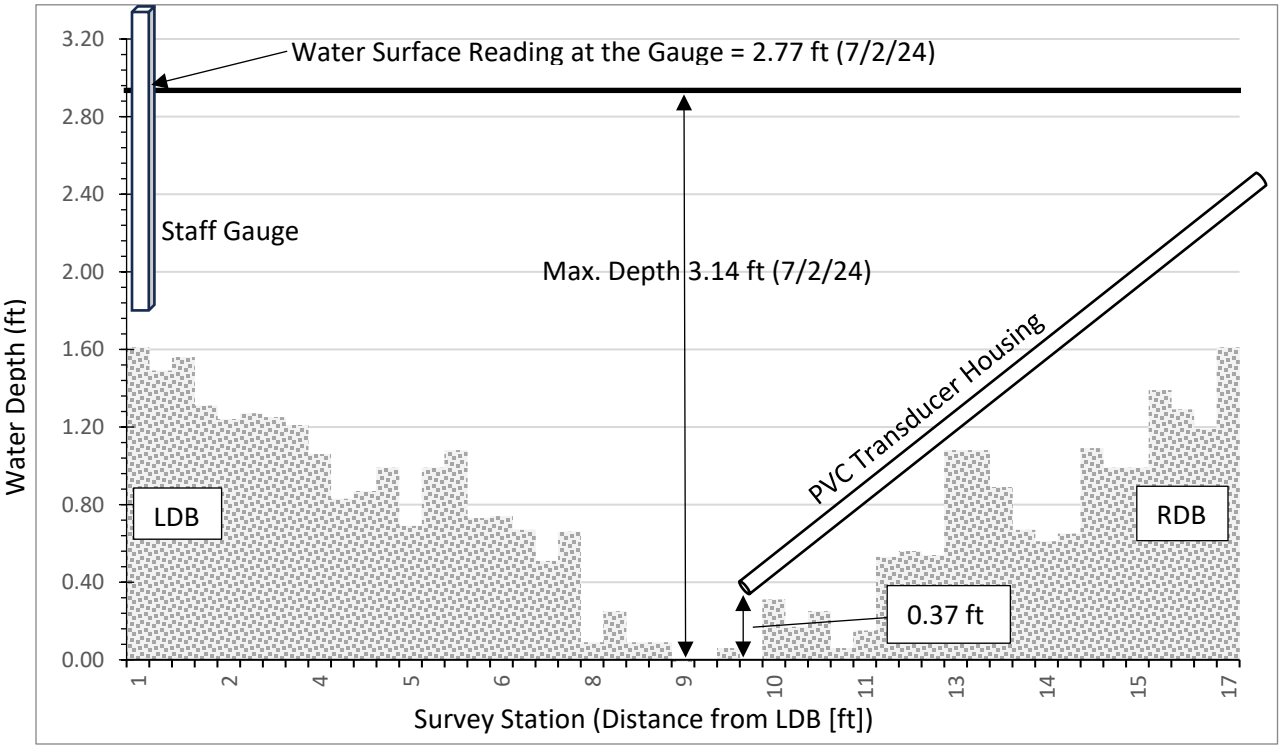


Figure 1. Stream Channel Profile and Gauge Diagram

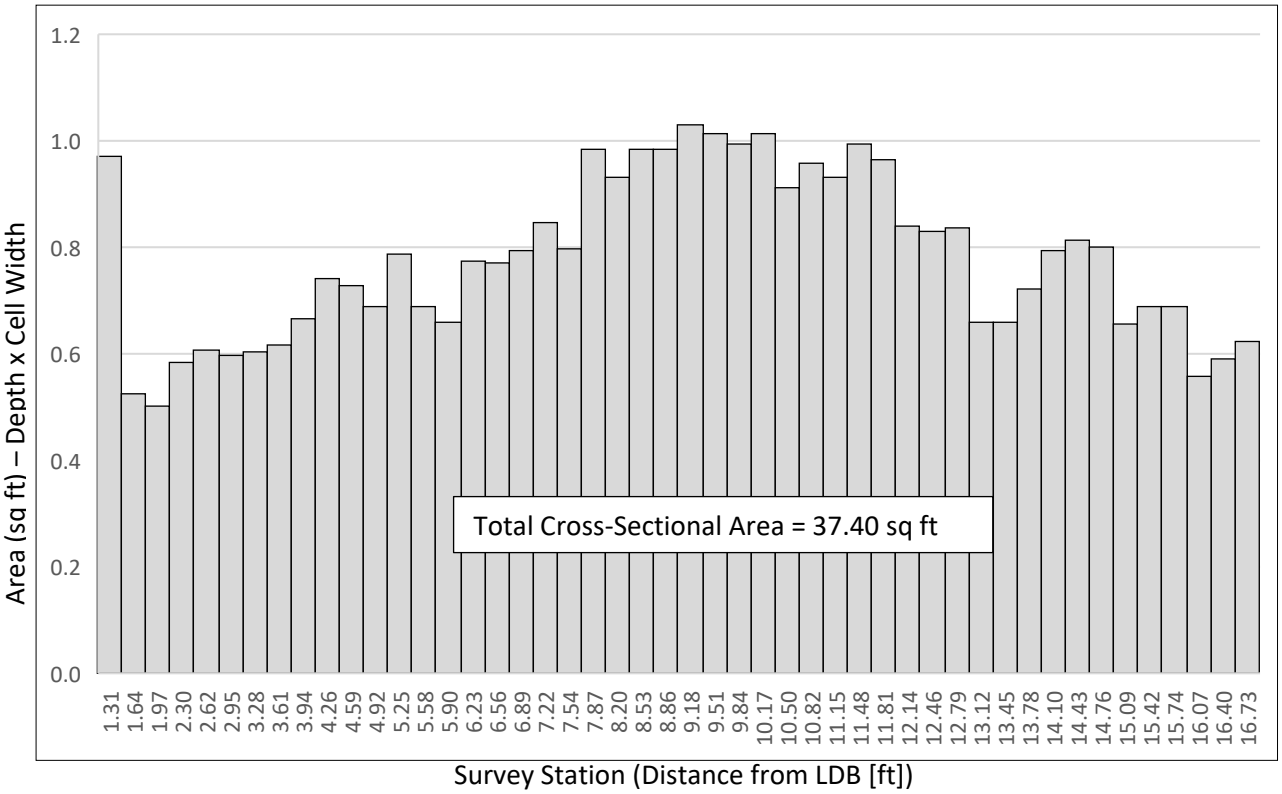


Figure 2. Stream Cross-Sectional Measurement (July 2, 2024)

ATTACHMENT B

Stream Cross-Sectional Measurements

STA (ft)	Depth (ft)	Cell Area (sq ft)	Notes
0.66	1.48		Edge of Water, Left Descending Bank
1.31	1.60	0.97	
1.64	1.53	0.52	
1.97	1.78	0.50	
2.30	1.85	0.58	
2.62	1.82	0.61	
2.95	1.84	0.60	
3.28	1.88	0.60	
3.61	2.03	0.62	
3.94	2.26	0.67	
4.26	2.22	0.74	
4.59	2.10	0.73	
4.92	2.40	0.69	
5.25	2.10	0.79	
5.58	2.01	0.69	
5.90	2.36	0.66	
6.23	2.35	0.77	
6.56	2.42	0.77	
6.89	2.58	0.79	
7.22	2.43	0.85	
7.54	3.00	0.80	
7.87	2.84	0.98	
8.20	3.00	0.93	
8.53	3.00	0.98	
8.86	3.14	0.98	
9.18	3.09	1.03	
9.51	3.03	1.01	
9.84	3.09	0.99	
10.17	2.78	1.01	
10.50	2.92	0.91	
10.82	2.84	0.96	
11.15	3.03	0.93	
11.48	2.94	0.99	
11.81	2.56	0.96	
12.14	2.53	0.84	
12.46	2.55	0.83	
12.79	2.01	0.84	
13.12	2.01	0.66	
13.45	2.20	0.66	
13.78	2.42	0.72	
14.10	2.48	0.79	
14.43	2.44	0.81	
14.76	2.00	0.80	
15.09	2.10	0.66	
15.42	2.10	0.69	
15.74	1.70	0.69	
16.07	1.80	0.56	
16.40	1.90	0.59	
16.73	1.48	0.62	Edge of Water, Right Descending Bank

ATTACHMENT C

Photographic Log



Photograph 1. Permanent stream gauge installed along the left-descending bank of Fall Kill (41.747892° -73.897199°); view facing east.



Photograph 2. Gauge bolted into rock outcropping.



Photograph 3. PVC housing for water level probe ascending the RDB.



Photograph 4. PVC housing underwater in foreground with gauge along opposing ban

Attachment 2

Utility Locating Survey Reports

GREENSTAR
Environmental Solutions, LLC

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappingers Falls, NY 12590

July 22, 2024

Justin King
Project Manager
TRC
10 Maxwell Drive, Suite 200
Clifton Park, NY 12065

RE: Geophysical Survey- Dutchess County Fire Training Center, 392 Creek Road, Hyde Park, New York.

Dear Mr. King:

Greenstar Environmental Solutions, LLC (Greenstar) is pleased to present this letter report summarizing the ground penetrating radar (GPR) and Electromagnetic (EM) survey at the Dutchess County Fire Training Center, 392 Creek Road, Hyde Park, New York.

SITE AND PROJECT DESCRIPTION

Greenstar Environmental Solutions LLC (Greenstar) was contracted by TRC Engineers, Inc (TRC) to conduct a geophysical survey at Dutchess County Fire Training Center, 392 Creek Road, Hyde Park, New York (subject property). The survey was completed on July 19, 2024 by Greenstar staff overseen by TRC staff. The objective of the survey was to clear boring and monitoring well locations and locate existing utilities within the work area.

The GPR survey was completed using a GSSI 350 mHz antenna and receiver. GPR surveying is a nonintrusive, subsurface geophysical investigation technique that detects subsurface structures by transmitting electromagnetic waves from an antenna into the ground. The antenna then monitors the strength and time delay of the return signal. The return signal is then evaluated for any anomalies, which by their size, shape and orientation can be interpreted as voids, underground storage tanks, utility pipelines, soil-bedrock interface or areas of different sediment compaction. A radio frequency (RF) line locator was also used to identify subsurface utility lines based on the presence of 120 hertz signal (electric) and transmitted signals from the RF transmitter.

RESULTS

Fire Training Work Area- Boring and monitoring well locations were scanned with line locating and GPR equipment and cleared of subsurface obstructions. Electric lines, water lines, gas lines, and drainage lines were located within the work area. Utilities were marked in paint and reviewed with TRC staff. Boring, monitoring well, and utility locations are shown in Figure 1.

Monitoring Well Work Area- Two proposed monitoring well locations were scanned for subsurface obstructions. Electric lines were located within the work area. Utilities were marked in paint and reviewed with TRC staff. Monitoring well and utility locations are shown in Figure 2.

Thank you for allowing Greenstar to assist TRC with this project. If you have any questions, please do not hesitate to contact me at (917) 655-5123 or via email at pnimmer@greenstarsolutions.com.

Sincerely,

GREENSTAR ENVIRONMENTAL SOLUTIONS, LLC

Pete Nimmer, PG, LSRP
Senior Geologist

GREENSTAR
Environmental Solutions, LLC

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappingers Falls, NY 12590

Figure 1
Approximate Boring and Utility Locations
Fire Training Work Area
Dutchess County Fire Training Center, Hyde Park, NY

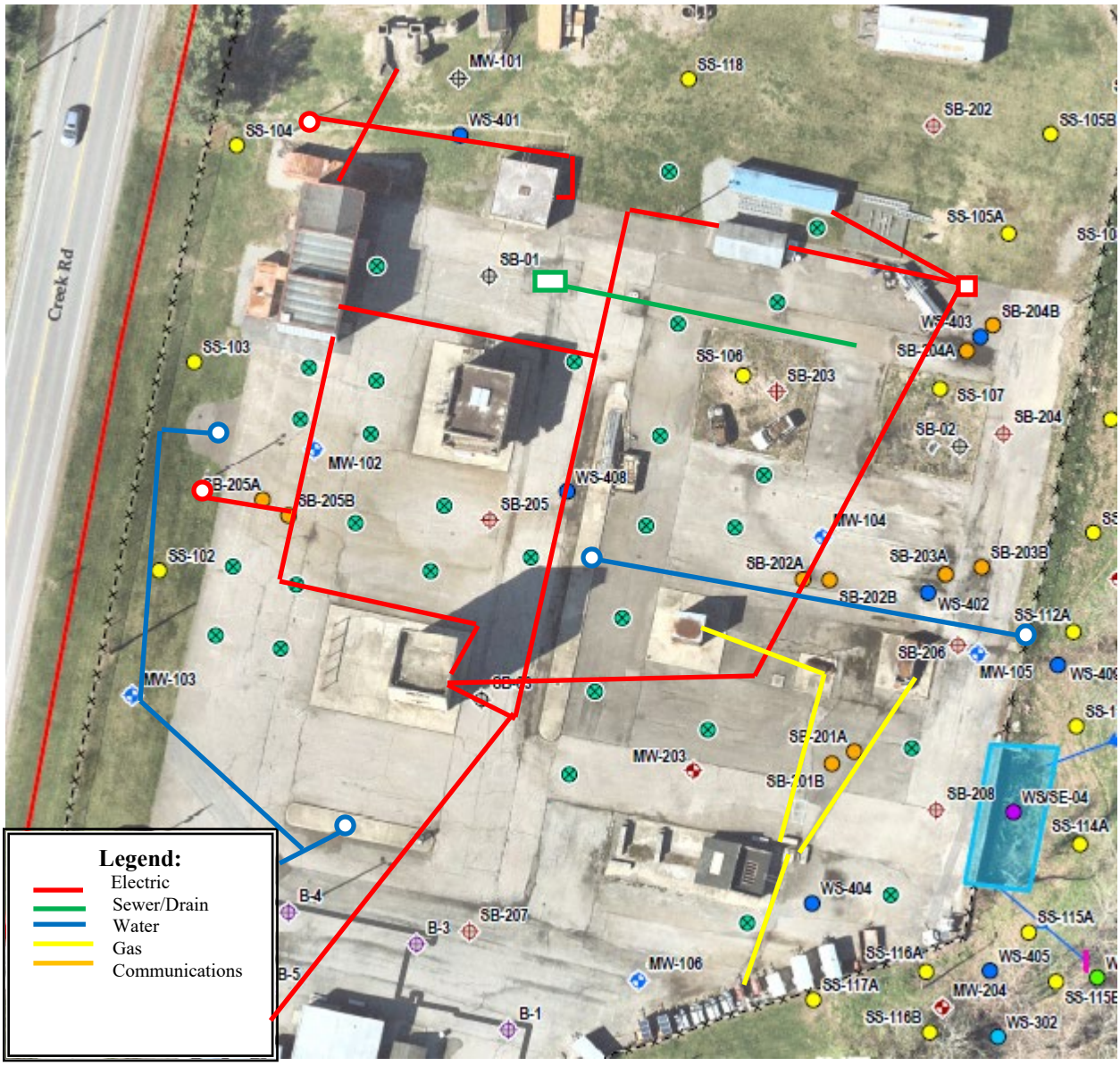


Figure 2
Approximate Boring and Utility Locations
Monitoring Well Work Area
Dutchess County Fire Training Center, Hyde Park, NY



Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappingers Falls, NY 12590

September 5, 2024

Justin King
Project Manager
TRC
10 Maxwell Drive, Suite 200
Clifton Park, NY 12065

RE: Geophysical Survey- Dutchess County Fire Training Center, 392 Creek Road, Hyde Park, New York.

Dear Mr. King:

Greenstar Environmental Solutions, LLC (Greenstar) is pleased to present this letter report summarizing the ground penetrating radar (GPR) and Electromagnetic (EM) survey at Dutchess County Fire Training Center, 392 Creek Road, Hyde Park, New York.

SITE AND PROJECT DESCRIPTION

Greenstar Environmental Solutions LLC (Greenstar) was contracted by TRC Engineers, Inc (TRC) to conduct a geophysical survey at Dutchess County Fire Training Center, 392 Creek Road, Hyde Park, New York. (subject property). The survey was completed on September 3, 2024 by Greenstar staff overseen by TRC staff. The objective of the survey was to clear boring and monitoring well locations and locate existing utilities within the work area.

The GPR survey was completed using a GSSI 350 mHz antenna and receiver. GPR surveying is a nonintrusive, subsurface geophysical investigation technique that detects subsurface structures by transmitting electromagnetic waves from an antenna into the ground. The antenna then monitors the strength and time delay of the return signal. The return signal is then evaluated for any anomalies, which by their size, shape and orientation can be interpreted as voids, underground storage tanks, utility pipelines, soil-bedrock interface or areas of different sediment compaction. A radio frequency (RF) line locator was also used to identify subsurface utility lines based on the presence of 120 hertz signal (electric) and transmitted signals from the RF transmitter.

RESULTS

Fire Training Work Area- Boring and monitoring well locations were scanned with line locating and GPR equipment and cleared of subsurface obstructions. Electric lines, water lines, gas lines, and drainage lines were located within the work area. Utilities were marked in paint and reviewed with TRC staff. Boring, monitoring well, and approximate utility locations are shown in Figure 1.

Monitoring Well Work Area- Two proposed monitoring well locations were scanned for subsurface obstructions. Electric lines were located within the work area. Utilities were marked in paint and reviewed with TRC staff. Approximate monitoring well and utility locations are shown in Figure 2.

Power Lines Work Area- Proposed monitoring well locations were scanned for subsurface obstructions. There were no utilities located within the work area. Approximate monitoring well locations are shown in Figure 3.

Thank you for allowing Greenstar to assist TRC with this project. If you have any questions, please do not hesitate to contact me at (917) 655-5123 or via email at pnimmer@greenstarsolutions.com.

Sincerely,

GREENSTAR ENVIRONMENTAL SOLUTIONS, LLC

Pete Nimmer, PG, LSRP
Senior Geologist

GREENSTAR
Environmental Solutions, LLC

Greenstar Environmental Solutions, LLC
6 Gellatly Drive
Wappingers Falls, NY 12590

Figure 1
Approximate Boring and Utility Locations
Fire Training Work Area
Dutchess County Fire Training Center, Hyde Park, NY

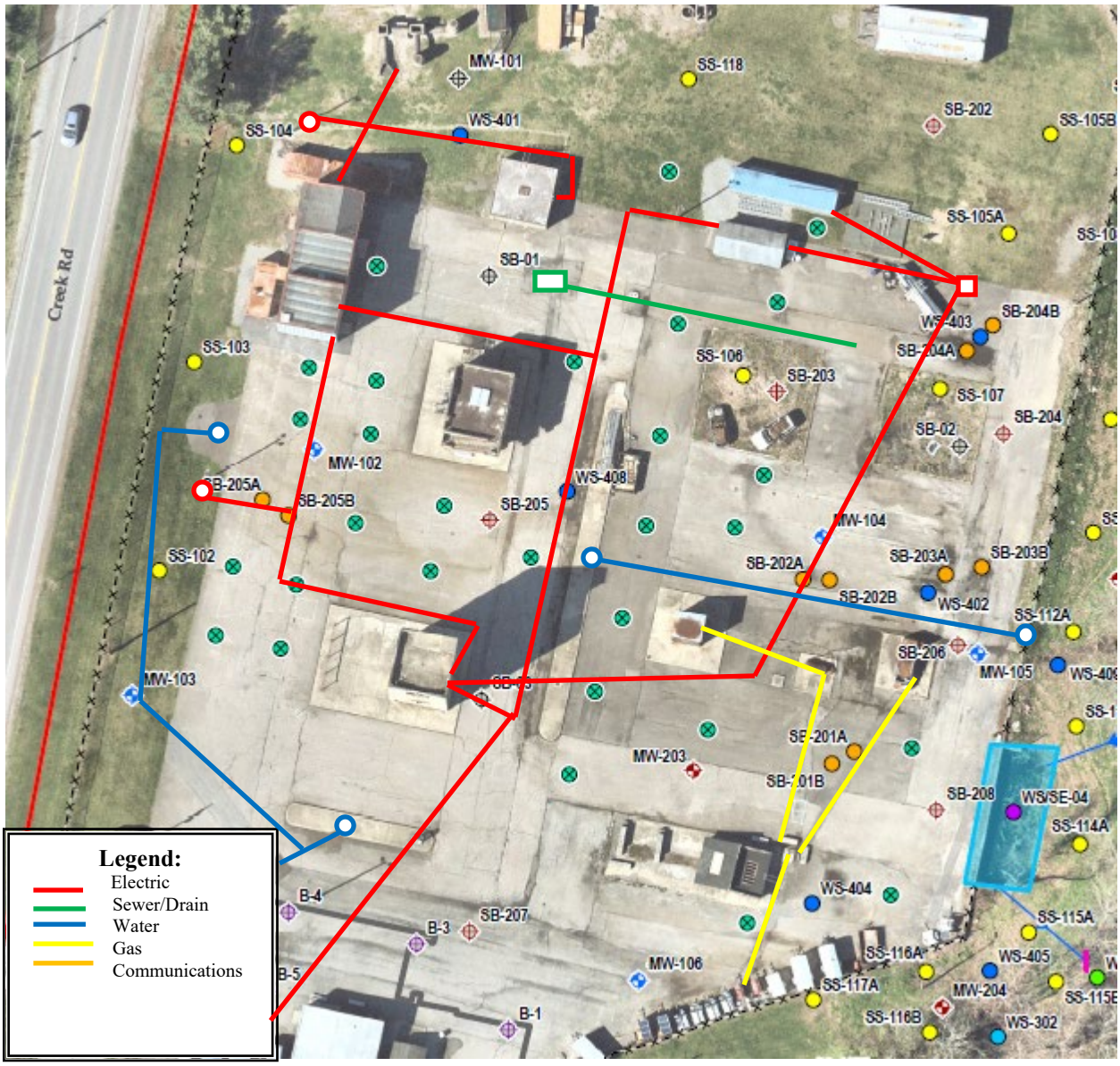
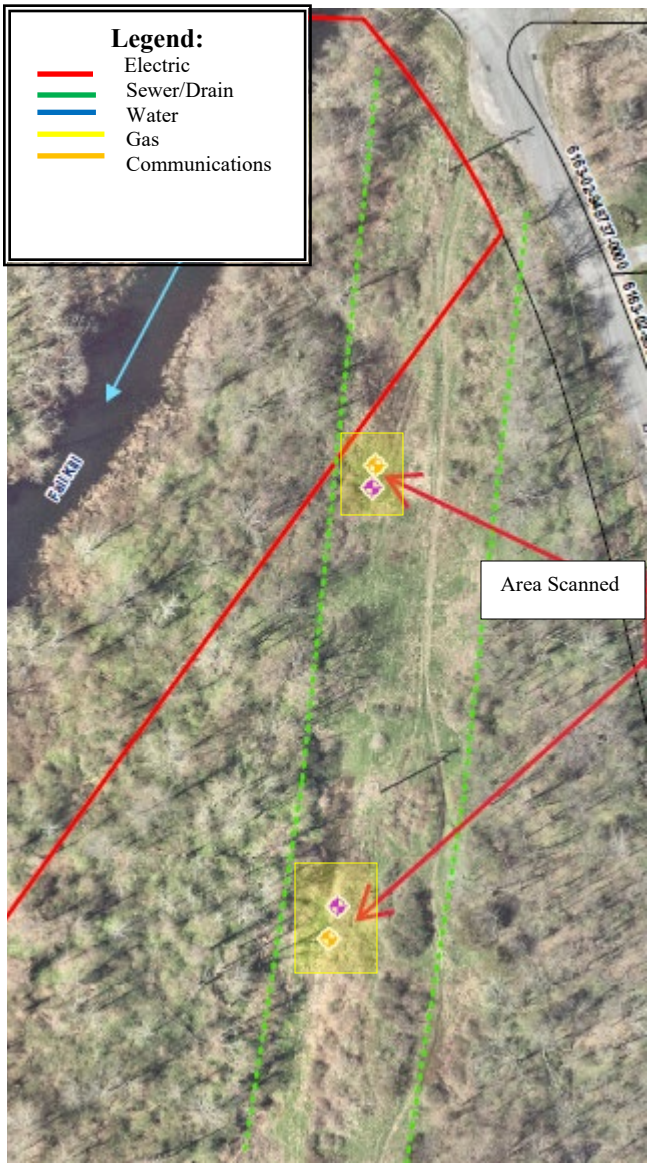


Figure 2
Approximate Boring and Utility Locations
Monitoring Well Work Area
Dutchess County Fire Training Center, Hyde Park, NY



Figure 3
Approximate Boring and Utility Locations
Power Lines Work Area
Dutchess County Fire Training Center, Hyde Park, NY



Attachment 3

Soil Boring Logs

SOIL BORING LOG

BORING NO. SB-301

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656238.1 Y: 1062340.7 Elev.: 217.8 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	30	0.2		(0-2") Asphalt (2"-5') Brown SILT, trace gravel	DCFTC-SB-301 (0-0.5) DCFTC-SB-301 (0.5-1.5) DCFTC-SB-301 (1.5-4)
1					
2					
3		0.7			
4	40				
5				(5'-7') Brown SILT, some fine sand, trace gravel	DCFTC-SB-301 (4-6)
6					Wet at 6'
7		0.2		(7'-8') Bedrock	
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-302

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656261.2 Y: 1062335.1 Elev.: 217.1 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	36	0.2		(0-2") Asphalt (2"-8') Brown SILT, some fine sand, trace gravel	DCFTC-SB-302 (0-0.5) DCFTC-SB-302 (0.5-1.5) DCFTC-SB-302 (1.5-4)
1					
2					
3		0.6			
4	40				DCFTC-SB-302 (4-6)
5					
6					Wet at 6'
7					
8				(8') Bedrock Boring terminated at 8 feet	Refusal at 8'
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO.
SB-303

Facility/Project Name: Dutchess County Fire Training Center (Site No. 314128)	**Client Name:** NYSDEC	**Project Number:** 453208

Boring Location: X: 656269.1 Y: 1062366.1 Elev.: 217.4 ft **Horiz Datum:** SP_NY_E_NAD83_ft **Elev Datum:** NAVD88	**Date Started:** 07/23/2024	**Date Completed:** 07/23/2024	**Total Depth:** 8.0 ft / **Borehole Dia.:** 2.25 in

Drilling Information **Drilling Firm:** Parratt-Wolff, Inc. **Driller:** Jared Eaves	**Drilling Method:** Direct Push	**Drilling Equipment** **Drill Rig:** DT6712DT **Sampler:** Dual Tubes (48")	**Personnel** **Logged by:** Andrew Fishman **Checked by:** Justin King

Street: 392 Creek Rd	**Civil Town/City/Village:** Hyde Park	**County:** Dutchess	**State:** NY	**Groundwater Observations:** 6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	32	0.3		(0-2") Asphalt	DCFTC-SB-303 (0-0.5)
1				(2"-8') Brown SILT, trace fine sand, trace gravel	DCFTC-SB-303 (0.5-1.5)
2		0.2			DCFTC-SB-303 (1.5-4)
3		0.5			
4	36				DCFTC-SB-303 (4-6)
5					
6		0.1			Wet at 6'
7					
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-304

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656244.3 Y: 1062365.3 Elev.: 217.8 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	24	0.1		(0-2") Asphalt	DCFTC-SB-304 (0-0.5)
1				(2"-8') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-304 (0.5-1.5)
2		0.2			DCFTC-SB-304 (1.5-4)
3		0.4			
4	26				DCFTC-SB-304 (4-6)
5					
6					Wet at 6'
7		0.2			
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-305

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656289.2 Y: 1062382.4 Elev.: 217.3 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	5.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	24	0.7		(0-2") Asphalt (2"-5') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-305 (0-0.5) DCFTC-SB-305 (0.5-1.5)
1					
2		1.2			DCFTC-SB-305 (1.5-4)
3					
4	40	0.6			DCFTC-SB-305 (4-5)
5					Wet at 5'
6					
7		0.2			
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-306

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656319.6 Y: 1062383.6 Elev.: 217.0 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	44	0.7		(0-2") Asphalt	DCFTC-SB-306 (0-0.5)
1		0.9		(2"-4') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-306 (0.5-1.5)
2					DCFTC-SB-306 (1.5-4)
3		0.3			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-307

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Elev Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656316.1 Y: 1062363.8 Elev.: 216.9 ft	SP_NY_E_NAD83_ft	NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	36	0.7		(0-2") Asphalt	DCFTC-SB-307 (0-0.5)
1				(2"-4') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-307 (0.5-1.5)
2		1.2			DCFTC-SB-307 (1.5-4)
3		1.7			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-308

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656352.1 Y: 1062364.9 Elev.: 216.6 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	24	0.9		(0-2") Asphalt	DCFTC-SB-308 (0-0.5)
1		1.4		(2"-4') Brown SILT, some find sand, trace gravel, trace cobble	DCFTC-SB-308 (0.5-1.5)
2					DCFTC-SB-308 (1.5-4)
3		1.6			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-309

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656295.6 Y: 1062417.7 Elev.: 217.4 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	5.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	30	0.7		(0-2") Asphalt	DCFTC-SB-309 (0-0.5)
1		1.1		(2"-8') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-309 (0.5-1.5)
2					DCFTC-SB-309 (1.5-4)
3		1.4			
4	40				DCFTC-SB-309 (4-5)
5					Wet at 5'
6		0.8			
7					
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-310

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656297.2 Y: 1062431.3 Elev.: 217.4 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	38	0.3		(0-2") Asphalt	DCFTC-SB-310 (0-0.5)
1				(2"-8') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-310 (0.5-1.5)
2		0.7			DCFTC-SB-310 (1.5-4)
3					
4		0.5			
5	32				DCFTC-SB-310 (4-6)
6		0.2			Wet at 6'
7					
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-311

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656267.2 Y: 1062419.2 Elev.: 217.9 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	5.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
	30	0.4		(0-2") Asphalt	DCFTC-SB-311 (0-0.5)
1		0.5		(2"-8') Brown SILT, trace fine sand, trace gravel, trace cobble	DCFTC-SB-311 (0.5-1.5)
2					DCFTC-SB-311 (1.5-4)
3		0.9			
4	36				DCFTC-SB-311 (4-5)
5					Wet at 5'
6		0.2			
7					
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-312

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656280.0 Y: 1062439.0 Elev.: 217.7 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	40	0.7		(0-2") Asphalt	DCFTC-SB-312 (0-0.5)
1		0.9		(2"-8') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-312 (0.5-1.5)
2					DCFTC-SB-312 (1.5-4)
3		1.3			
4	44				DCFTC-SB-312 (4-6)
5					
6 ▼		0.8			Wet at 6'
7					
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-313

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656302.9 Y: 1062474.9 Elev.: 217.8 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	8.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	34	3.4		(0-2") Asphalt	DCFTC-SB-313 (0-0.5)
1		3.8		(2"-8') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-313 (0.5-1.5)
2					DCFTC-SB-313 (1.5-4)
3		2.6			
4	44				DCFTC-SB-313 (4-6)
5					
6		1.9			Wet at 6'
7					
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-314

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656369.7 Y: 1062438.9 Elev.: 216.5 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	28	1.2		(0-2") Asphalt	DCFTC-SB-314 (0-0.5)
1		2.7		(2"-4') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-314 (0.5-1.5)
2					DCFTC-SB-314 (1.5-4)
3		1.8			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-315

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656411.3 Y: 1062516.1 Elev.: 216.7 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	36	0.7		(0-3") Top Soil and Vegetation	DCFTC-SB-315 (0-0.5)
1				(3"-4') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-315 (0.5-1.5)
2		1.9			DCFTC-SB-315 (1.5-4) / DCFTC-DUP-2
3		1.6			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO.
SB-316

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656455.7 Y: 1062490.6 Elev.: 215.8 ft	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	22	0.6		(0-3") Top Soil and Vegetation	DCFTC-SB-316 (0-0.5)
1		0.9		(3"-4') Brown SILT, some fine sand, trace gravel, trace cobble	DCFTC-SB-316 (0.5-1.5)
2					DCFTC-SB-316 (1.5-4)
3		0.2			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-317

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656445.0 Y: 1062463.0 Elev.: 215.7 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	26	0.3		(0-2") Asphalt	DCFTC-SB-317 (0-0.5)
				(2"-1') Dark brown fine SAND, trace silt	DCFTC-SB-317 (0.5-1.5)
1		0.5		(1'-4') Brown SILTY CLAY with wood debris	DCFTC-SB-317 (1.5-4)
2					
3		0.1			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-318

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656408.6 Y: 1062453.2 Elev.: 216.2 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	28	0.2		(0-2") Asphalt	DCFTC-SB-318 (0-0.5)
				(2"-1') Dark brown, fine SAND, trace silt	DCFTC-SB-318 (0.5-1.5)
1		0.7		(1'-4') Brown SILTY CLAY, trace fine sand	DCFTC-SB-318 (1.5-4)
2					
3		0.6			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-319

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656398.9 Y: 1062413.2 Elev.: 216.2 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	20			(0-2") Asphalt	DCFTC-SB-319 (0-0.5)
				(2"-1') Brown fine SAND, trace silt	DCFTC-SB-319 (0.5-1.5)
1				(1'-4') Brown SILTY CLAY, trace fine sand	DCFTC-SB-319 (1.5-4)
2					
3		2.6			Mild odor at 3' / some staining.
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-320

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656439.8 Y: 1062398.9 Elev.: 215.7 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/23/2024	07/23/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	3.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	34	0.6		(0-2") Asphalt	DCFTC-SB-320 (0-0.5)
				(2"-1') Brown fine SAND, trace silt	DCFTC-SB-320 (0.5-1.5)
1		1.2		(1'-4') Brown SILTY CLAY, trace fine sand	DCFTC-SB-320 (1.5-4)
2					
3		1.0			Wet at 3'
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-321

Facility/Project Name: Dutchess County Fire Training Center (Site No. 314128)	**Client Name:** NYSDEC	**Project Number:** 453208

Boring Location: X: 656428.1 Y: 1062381.1 Elev.: 215.5 ft **Horiz Datum:** SP_NY_E_NAD83_ft **Elev Datum:** NAVD88	**Date Started:** 07/23/2024	**Date Completed:** 07/23/2024	**Total Depth:** 4.0 ft / **Borehole Dia.:** 2.25 in

Drilling Information **Drilling Firm:** Parratt-Wolff, Inc. **Driller:** Jared Eaves	**Drilling Method:** Direct Push	**Drilling Equipment** **Drill Rig:** DT6712DT **Sampler:** Dual Tubes (48")	**Personnel** **Logged by:** Andrew Fishman **Checked by:** Justin King

Street: 392 Creek Rd	**Civil Town/City/Village:** Hyde Park	**County:** Dutchess	**State:** NY	**Groundwater Observations:** 4.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	26	0.9		(0-2") Asphalt	DCFTC-SB-321 (0-0.5)
				(2"-1') Brown fine SAND, trace silt	DCFTC-SB-321 (0.5-1.5)
1				(1'-4') Brown SILTY CLAY, trace fine sand	DCFTC-SB-321 (1.5-4)
2		1.6			
3		1.4			
4				Boring terminated at 4 feet	Wet at 4'
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-322

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656491.8 Y: 1062175.9 Elev.: 212.1 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
	07/24/2024	07/24/2024	2.0 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	2.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
1		1.7		(0-2') Organic top soil with vegetation	DCFTC-SB-322 (0-0.5) DCFTC-SB-322 (0.5-1.5)
2				Boring terminated at 2 feet	Wet at 2'
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO.
SB-323

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656615.0 Y: 1062365.4 Elev.: 211.0 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
	07/24/2024	07/24/2024	0.5 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	0.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
▼		51.8		(0-0.5') Organic top soil with vegetation	DCFTC-SB-323 (0-0.5) / strong odor
1				Boring terminated at 0.5 feet	Wet at 0.5'
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO.
SB-324

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656631.7 Y: 1062409.3 Elev.: 212.7 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
	07/24/2024	07/24/2024	1.5 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	1.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
1		5.2 0.6		(0-1.5') Organic top soil with vegetation	DCFTC-SB-324 (0-0.5) DCFTC-SB-324 (0.5-1.5)
2				Boring terminated at 1.5 feet	Wet at 1.5'
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-325

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656641.2 Y: 1062430.5 Elev.: 214.3 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
	07/24/2024	07/24/2024	2.5 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	2.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
1		0.6 0.5		(0-2.5') Organic top soil with vegetation	DCFTC-SB-325 (0-0.5) DCFTC-SB-325 (0.5-1.5)
2		0.4			DCFTC-SB-325 (1.5-2.5)
3				Boring terminated at 2.5 feet	Wet at 2.5'
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-326

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656655.4 Y: 1062460.7 Elev.: 211.0 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	0.5 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	0.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
▼		0.6		(0-6") Organic top soil with vegetation	DCFTC-SB-326 (0-0.5)
1				Boring terminated at 0.5 feet	Wet at 6"
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-327

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656639.9 Y: 1062514.6 Elev.: 211.4 ft	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	0.5 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	0.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
▼		0.3		(0-6") Organic top soil with vegetation	DCFTC-SB-327 (0-0.5)
1				Boring terminated at 0.5 feet	Wet at 6"
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO.
SB-328

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656620.0 Y: 1062499.1 Elev.: 212.7 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	0.5 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	0.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
▼		0.4		(0-6") Organic top soil with vegetation	DCFTC-SB-328 (0-0.5) / DCFTC-DUP-05 Wet at 6"
1				Boring terminated at 0.5 feet	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-329

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656587.7 Y: 1062499.1 Elev.: 214.7 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
	07/24/2024	07/24/2024	2.0 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	2.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0		0.3		(0-6") Organic top soil with vegetation	DCFTC-SB-329 (0-0.5)
1		0.4		(6"-2') Brown SILT, trace brown fine sand	DCFTC-SB-329 (0.5-1.5)
2				Boring terminated at 2 feet	DCFTC-SB-329 (1.5-2) Wet at 2'
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO.
SB-330

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656590.1 Y: 1062543.9 Elev.: 215.6 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	3.0 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	3.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0		0.3		(0-6") Organic top soil with vegetation	DCFTC-SB-330 (0-0.5)
1		0.5		(6"-3') Brown SILT, trace fine sand, trace vegetation	DCFTC-SB-330 (0.5-1.5)
2					DCFTC-SB-330 (1.5-3)
3		0.1			Wet at 3'
4				Boring terminated at 3 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-331

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656636.3 Y: 1062541.4 Elev.: 212.2 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
	07/24/2024	07/24/2024	0.5 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	0.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
▼		0.2		(0-6") Organic top soil with vegetation	DCFTC-SB-331 (0-0.5)
1				Boring terminated at 0.5 feet	Wet at 6"
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-332

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656658.0 Y: 1062531.1 Elev.: 211.4 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	0.5 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	0.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
▼		0.2		(0-6") Organic top soil with vegetation	DCFTC-SB-332 (0-0.5)
1				Boring terminated at 0.5 feet	Wet at 6"
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-333

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656395.9 Y: 1062380.5 Elev.: 216.1 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	3.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	24	1.3		(0-2") Asphalt (2"-4') Dark brown, SILT, trace fine sand	DCFTC-SB-333 (0-0.5) DCFTC-SB-333 (0.5-1.5)
1		3.8			
2					DCFTC-SB-333 (1.5-3)
3		6.2			Wet at 3'
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-334

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656382.6 Y: 1062344.6 Elev.: 216.1 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	1.7 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	26	1.2		(0-2") Asphalt (2"-4') Brown SILTY CLAY, trace fine sand	DCFTC-SB-334 (0-0.5) DCFTC-SB-334 (0.5-1.5)
1		3.7			DCFTC-SB-334 (1.5-4) Wet at 1.7'
2					
3		15.1			
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-335

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656375.2 Y: 1062319.1 Elev.: 216.0 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	2.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	30	5.8		(0-2") Asphalt	DCFTC-SB-335 (0-0.5)
1		10.2		(2"-4') Brown SILTY CLAY, trace fine sand, trace gravel	DCFTC-SB-335 (0.5-1.5)
2					DCFTC-SB-335 (1.5-4)
3		62.5			Wet at 2.5'
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO.
SB-336

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656367.6 Y: 1062290.2 Elev.: 216.1 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	2.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
1	24	12.2		(0-2") Asphalt (2"-4') Brown SILT with fine sand, trace gravel	DCFTC-SB-336 (0-0.5) DCFTC-SB-336 (0.5-1.5)
2		14.6			DCFTC-SB-336 (1.5-4) Wet at 2'
3		10.1			
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-337

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656417.7 Y: 1062303.6 Elev.: 215.4 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	3.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	24	5.4		(0-2") Asphalt	DCFTC-SB-337 (0-0.5)
				(2"-4') Brown SILTY CLAY, trace fine sand	DCFTC-SB-337 (0.5-1.5)
1		6.8			
2					DCFTC-SB-337 (1.5-4)
3 ▼		7.1			Wet at 3'
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-338

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656501.7 Y: 1062303.3 Elev.: 215.2 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	3.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	36			(0-2") Asphalt	DCFTC-SB-338 (0-0.5)
1				(2"-4') Brown SILTY CLAY, trace fine sand	DCFTC-SB-338 (0.5-1.5)
2					DCFTC-SB-338 (1.5-4)
3		4.8			Wet at 3'
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. SB-339

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656456.8 Y: 1062242.8 Elev.: 215.4 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	3.0 ft	4 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Hand Auger	Drill Rig: Sampler: Hand Auger	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	2.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
1		2.4		(0-2") Asphalt (2"-3') Brown SILTY CLAY, trace fine sand, trace gravel	DCFTC-SB-339 (0-0.5) DCFTC-SB-339 (0.5-1.5)
2		2.8			DCFTC-SB-339 (1.5-2.5)
3				Boring terminated at 3 feet	Wet at 2.5'
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO.
SB-340

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656430.9 Y: 1062236.4 Elev.: 215.3 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	4.0 ft	2.25 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	2.3 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
1	28	4.2		(0-2") Asphalt (2"-4') Brown SILTY CLAY, trace fine sand	DCFTC-SB-340 (0-0.5) DCFTC-SB-340 (0.5-1.5)
2		3.6			DCFTC-SB-340 (1.5-4) / DCFTC-DUP-06 Wet at 2.3'
3		2.1			
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. BMW-101

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656337.1 Y: 1062539.6 Elev.: 217.8 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	4.0 ft	2 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	36	0.6		(0-3") Organic TOPSOIL with vegetation	DCFTC-BMW-101 (0-0.5)
1		0.9		(3"-3') Brown SILT, some gravel, trace fine sand	DCFTC-BMW-101 (0.5-1.5)
2					DCFTC-BMW-101 (1.5-3)
3		0.1		BEDROCK at 3'	
4				Boring terminated at 4 feet	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. BMW-102

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Horiz Datum:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656208.6 Y: 1062021.5 Elev.: 216.8 ft	SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	20.0 ft	2 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	36	0.2		(0-3") Organic TOPSOIL with vegetation	DCFTC-BMW-102 (0-0.5)
1		0.3		(3"-2') Brown SILT, trace fine sand, trace gravel	DCFTC-BMW-102 (0.5-1.5)
2				(2'-11') Brown fine SAND, some silt, trace gravel	
3		0.1			DCFTC-BMW-102 (3-5)
4	16				
5					
6		0.1			Wet at 6'
7				(11'-18') Brown medium SAND with cobbles, wet	
8	36				
9					
10					
11					
12	48				
13					
14					
15					

SOIL BORING LOG

BORING NO. BMW-102

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656208.6 Y: 1062021.5 Elev.: 216.8 ft	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	07/24/2024	07/24/2024	20.0 ft	2 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	6.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
16	48			(11'-18') Brown medium SAND with cobbles, wet	
17	48				
18					DCFTC-BMW-102 (18-20)
19				(18'-20') Light Gray Hard CLAY	
20					BEDROCK at 20'
21				Boring terminated at 20 feet	
22					
23					
24					
25					
26					
27					
28					
29					
30					

SOIL BORING LOG

BORING NO. BMW-103

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location: X: 656369.9 Y: 1061667.0 Elev.: 220.5 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
	07/24/2024	07/24/2024	10.0 ft	2 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: Parratt-Wolff, Inc. Driller: Jared Eaves	Direct Push	Drill Rig: DT6712DT Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	9.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	40	0.7		(0-3") Organic TOPSOIL with vegetation	DCFTC-BMW-103 (0-0.5)
1				(3"-5') Brown SILT, trace brown fine sand and trace gravel	DCFTC-BMW-103 (0.5-1.5)
2		0.9			
3					
4	48			(5'-10') Brown medium SAND, trace gravel	
5					
6					
7					DCFTC-BMW-103 (7-9)
8	24				
9					DCFTC-BMW-103(9-10) / Wet at 9'
10				Boring terminated at 10 feet	BEDROCK at 10'
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. BMW-104

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656832.2 Y: 1062359.9 Elev.: 215.3 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	09/11/2024	09/11/2024	7.5 ft	2 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: AARCO Driller: Julio Galarzce	Direct Push	Drill Rig: Mobile Drill B-24 Sampler: Dual Tubes (48")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	7.5 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	36	6.7		(0-4") Organic TOPSOIL with vegetation (4"-5') Brown SILT, trace gravel, trace cobble	0-3' advanced by hand DCFTC-BMW-104 (0-0.5) DCFTC-BMW-104 (0.5-1.5)
1					
2		6.5			
3					
4	48	5.3			
5				(5'-7.5') Brown SILT with cobble, trace gravel	DCFTC-BMW-104 (5-7)
6		0			
7		0		BEDROCK	DCFTC-BMW-104 (7-7.5) Wet at 7.5'
8				Boring terminated at 7.5 feet	
9					
10					
11					
12					
13					
14					
15					

SOIL BORING LOG

BORING NO. BMW-105

Facility/Project Name:	Client Name:	Project Number:
Dutchess County Fire Training Center (Site No. 314128)	NYSDEC	453208

Boring Location:	Date Started:	Date Completed:	Total Depth:	Borehole Dia.:
X: 656793.3 Y: 1062059.5 Elev.: 215.0 ft Horiz Datum: SP_NY_E_NAD83_ft Elev Datum: NAVD88	09/11/2024	09/11/2024	8.0 ft	2 in

Drilling Information	Drilling Method:	Drilling Equipment	Personnel
Drilling Firm: AARCO Driller: Julio Galarzce	Direct Push	Drill Rig: Mobile Drill B-24 Sampler: Marcocore (60")	Logged by: Andrew Fishman Checked by: Justin King

Street:	Civil Town/City/Village:	County:	State:	Groundwater Observations:
392 Creek Rd	Hyde Park	Dutchess	NY	7.0 ft

Depth (Ft bgs)	Recovery (in)	PID Screening (ppm)	Material Graphic	Lithologic Description	Remarks
0	36	3.6		(0-4") Organic TOPSOIL with vegetation	DCFTC-BMW-105 (0-0.5)
1				(4"-4') Brown SILT, trace gravel	DCFTC-BMW-105 (0.5-1.5)
2		0			
3	50				
4				(4'-7') Brown coarse SAND, trace gravel	
5					DCFTC-BMW-105 (4-6)
6					DCFTC-BMW-105 (6-7)
7 ▼				(7' 8') Weathered rock/bedrock dry	Wet at 7'
8				Boring terminated at 8 feet	
9					
10					
11					
12					
13					
14					
15					

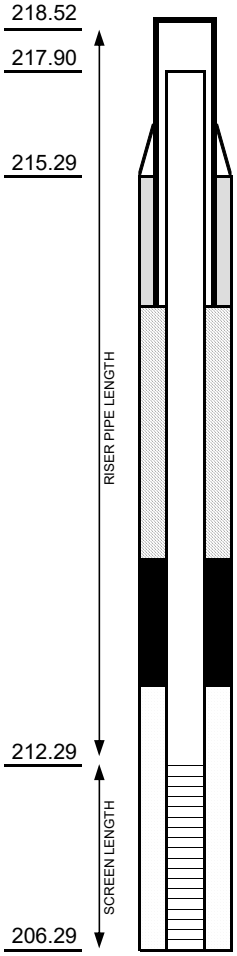
Attachment 4

Monitoring Well Construction Logs

WELL CONSTRUCTION DIAGRAM (ABOVE-GRADE)

PROJ. NAME:	NYSDEC Dutchess County Fire Training Center			WELL ID:	**MW-301**
PROJ. NO:	453208	DATE INSTALLED: 9/13/2024	INSTALLED BY: AARCO	CHECKED BY:	JK

ELEVATION (DATUM: NAVD 88)	DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)



218.52	3.2 TOP OF STANDPIPE
217.90	2.6 TOP OF RISER
215.29	0.0 GROUND SURFACE
	SURFACE SEAL MATERIAL: CEMENT
	0.5 SURFACE SEAL
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
	GROUT/BACKFILL METHOD: FILL FROM ABOVE
	1.5 GROUT
	BENTONITE SEAL MATERIAL: BENONITE PLUG
	2.5 BENTONITE SEAL
212.29	3.0 TOP OF SCREEN
	FILTER PACK MATERIAL: #1 SilICA SAND
206.29	9.0 BOTTOM OF SCREEN
	9.0 BOTTOM OF FILTER PACK

NOTES:
The depicted well construction diagram is not to scale.

CASING AND SCREEN DETAILS

TYPE OF RISER: PVC

PIPE SCHEDULE: 40

PIPE JOINTS: TWIST

SCREEN TYPE: 0.1 PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 12 IN. FROM 0 TO 9 FT.
_____ IN. FROM _____ TO _____ FT.

SURF. CASING DIAMETER: _____ IN. FROM _____ TO _____ FT.
_____ IN. FROM _____ TO _____ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD:

TIME DEVELOPING: _____ HOURS

WATER REMOVED: _____ GALLONS

WATER ADDED: _____ GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: _____

COLOR BEFORE: _____

CLARITY AFTER: _____

COLOR AFTER: _____

ODOR (IF PRESENT): _____

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:		T/PVC		
DTB AFTER DEVELOPING:		T/PVC		
SWL BEFORE DEVELOPING:		T/PVC		
SWL AFTER DEVELOPING:		T/PVC		
OTHER SWL:		T/PVC		
OTHER SWL:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☐ YES ☐ NO

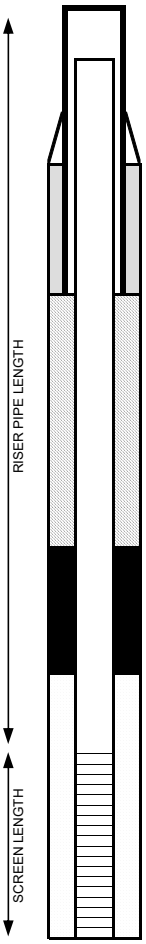
PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: _____

WELL CONSTRUCTION DIAGRAM (ABOVE-GRADE)

PROJ. NAME: NYSDEC Dutchess County Fire Training Center		WELL ID:	**MW-302**
PROJ. NO: 453208	DATE INSTALLED: 10/3/2024 INSTALLED BY: AARCO		CHECKED BY: JK

ELEVATION (DATUM: NAVD 88)	DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)



218.36	3.4 TOP OF STANDPIPE
218.22	3.3 TOP OF RISER
214.92	0.0 GROUND SURFACE
	SURFACE SEAL MATERIAL: CONCRETE
	0.5 SURFACE SEAL
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
	GROUT/BACKFILL METHOD: FILL FROM ABOVE
	1.5 GROUT
	BENTONITE SEAL MATERIAL
	2.5 BENTONITE SEAL
211.42	3.5 TOP OF SCREEN
	FILTER PACK MATERIAL: #1 SILICA SAND
206.42	8.5 BOTTOM OF SCREEN
	8.5 BOTTOM OF FILTER PACK

NOTES:
The depicted well construction diagram is not to scale.

CASING AND SCREEN DETAILS

TYPE OF RISER: PVC

PIPE SCHEDULE: 40

PIPE JOINTS: TWIST

SCREEN TYPE: 0.10 PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 12 IN. FROM 0 TO 8.5 FT.
_____ IN. FROM _____ TO _____ FT.

SURF. CASING DIAMETER: _____ IN. FROM _____ TO _____ FT.
_____ IN. FROM _____ TO _____ FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD:

TIME DEVELOPING: _____ HOURS

WATER REMOVED: _____ GALLONS

WATER ADDED: _____ GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: _____

COLOR BEFORE: _____

CLARITY AFTER: _____

COLOR AFTER: _____

ODOR (IF PRESENT): _____

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:		T/PVC		
DTB AFTER DEVELOPING:		T/PVC		
SWL BEFORE DEVELOPING:		T/PVC		
SWL AFTER DEVELOPING:		T/PVC		
OTHER SWL:		T/PVC		
OTHER SWL:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☐ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: _____

WELL CONSTRUCTION DIAGRAM (FLUSH-MOUNT)

PROJ. NAME: NYSDEC Dutchess County Fire Training Center		WELL ID:	**BMW-101**
PROJ. NO: 453208	DATE INSTALLED: 3/11/2025 INSTALLED BY: AARCO		CHECKED BY: JK

ELEVATION (DATUM: NAVD 88)	DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)
217.84	0.0 GROUND SURFACE
217.65	0.2 TOP OF CASING
217.17	0.7 TOP OF RISER
	SURFACE SEAL MATERIAL: CEMENT
(3.0 FT)	0.5 SURFACE SEAL
214.84 BEDROCK SURFACE	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
	GROUT/BACKFILL METHOD: TREMIE
208.45	9.2 BOTTOM OF CASING
	15.0 GROUT
	BENTONITE SEAL MATERIAL: PELLETS
	17.0 BENTONITE SEAL
198.84	19.0 TOP OF SCREEN
	FILTER PACK MATERIAL: FINE, WASHED SAND
188.84	29.0 BOTTOM OF SCREEN
187.84	30.0 BOTTOM OF FILTER PACK
	32.0 BENTONITE PLUG
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
	GROUT/BACKFILL METHOD - TREMIE
163.14	54.7 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

6-INCH DIA. BOREHOLE

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC
PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BEDROCK BOREHOLE DIAMETER: 6 IN. FROM 9.2 TO 54.7 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM 0 TO 9.2 FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 2.5 HOURS
WATER REMOVED: 15 GALLONS
WATER ADDED: 0.5 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: CLOUDY, YELLOW/TURBID
COLOR BEFORE: YELLOW-CLEAR
CLARITY AFTER: CLEAR
COLOR AFTER: CLEAR

ODOR (IF PRESENT): NONE

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	28.81	T/PVC	4/1/2025	1330
DTB AFTER DEVELOPING:	27.86	T/PVC	4/1/2025	1600
SWL BEFORE DEVELOPING:	2.01	T/PVC	4/1/2025	1330
SWL AFTER DEVELOPING:	2.51	T/PVC	4/1/2025	1600
OTHER SWL:		T/PVC		
OTHER SWL:		T/PVC		

NOTES:
The depicted well construction diagram is not to scale.

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO
PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO
LOCK KEY NUMBER: _____

WELL CONSTRUCTION DIAGRAM (FLUSH-MOUNT)

PROJ. NAME:	NYSDEC Dutchess County Fire Training Center			WELL ID:	**BMW-102**
PROJ. NO:	453208	DATE INSTALLED:	3/28/2025 INSTALLED BY: AARCO		CHECKED BY: JK

ELEVATION (DATUM: NAVD 88)	DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)
216.79	0.0 GROUND SURFACE
216.65	0.1 TOP OF CASING
216.18	0.6 TOP OF RISER
	SURFACE SEAL MATERIAL: CEMENT
	0.5 SURFACE SEAL
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
(20.0 FT)	GROUT/BACKFILL METHOD: TREMIE
196.79 BEDROCK SURFACE	
191.59	25.2 BOTTOM OF CASING
	26.0 GROUT
	BENTONITE SEAL MATERIAL: PELLETS
	27.0 BENTONITE SEAL
186.79	30.0 TOP OF SCREEN
	FILTER PACK MATERIAL: FINE, WASHED SAND
176.79	40.0 BOTTOM OF SCREEN
174.79	42.0 BOTTOM OF FILTER PACK
	46.0 BENTONITE PLUG
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
	GROUT/BACKFILL METHOD - TREMIE
144.59	72.2 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

6-INCH DIA. BOREHOLE

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BEDROCK BOREHOLE DIAMETER: 6 IN. FROM 25.2 TO 72.2 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM 0 TO 25.2 FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 1 HOURS

WATER REMOVED: 27 GALLONS

WATER ADDED: 0.5 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: TURBID, MURKY

COLOR BEFORE: YELLOWISH

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): N/A

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	39.89	T/PVC	4/2/2025	1440
DTB AFTER DEVELOPING:	40.01	T/PVC	4/2/2025	1600
SWL BEFORE DEVELOPING:	2.41	T/PVC	4/2/2025	1440
SWL AFTER DEVELOPING:	1.39	T/PVC	4/2/2025	1600
OTHER SWL:		T/PVC		
OTHER SWL:		T/PVC		

NOTES:
The depicted well construction diagram is not to scale.

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: _____

WELL CONSTRUCTION DIAGRAM (FLUSH-MOUNT)

PROJ. NAME: NYSDEC DUTCHESS COUNTY FIRE TRAINING CENTER		WELL ID:	**BMW-103**
PROJ. NO: 453208	DATE INSTALLED: 4/1/2025 INSTALLED BY: AARCO		CHECKED BY: JK

ELEVATION (DATUM: NAVD 88)	DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)
220.49	0.0 GROUND SURFACE
220.40	0.1 TOP OF CASING
219.89	0.6 TOP OF RISER
	SURFACE SEAL MATERIAL: CEMENT
	0.5 SURFACE SEAL
(10.0 FT)	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
210.49 BEDROCK SURFACE	GROUT/BACKFILL METHOD: TREMIE
204.49	16.0 BOTTOM OF CASING
	21.0 GROUT
	BENTONITE SEAL MATERIAL: PELLETS
	23.0 BENTONITE SEAL
195.49	25.0 TOP OF SCREEN
	FILTER PACK MATERIAL: FINE, WASHED SAND
185.49	35.0 BOTTOM OF SCREEN
184.49	36.0 BOTTOM OF FILTER PACK
	37.0 BENTONITE PLUG
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
	GROUT/BACKFILL METHOD - TREMIE
160.09	60.4 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

6-INCH DIA. BOREHOLE

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

OPEN BEDROCK BOREHOLE DIAMETER: 6 IN. FROM 16.0 TO 60.4 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM 0 TO 16.0 FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 1 HOURS

WATER REMOVED: 20 GALLONS

WATER ADDED: 0.5 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: TURBID

COLOR BEFORE: GREY-BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): N/A

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	35.99	T/PVC	4/2/2025	1545
DTB AFTER DEVELOPING:	36.01	T/PVC	4/2/2025	1700
SWL BEFORE DEVELOPING:	7.89	T/PVC	4/2/2025	1545
SWL AFTER DEVELOPING:	7.01	T/PVC	4/2/2025	1700
OTHER SWL:		T/PVC		
OTHER SWL:		T/PVC		

NOTES:
The depicted well construction diagram is not to scale.

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

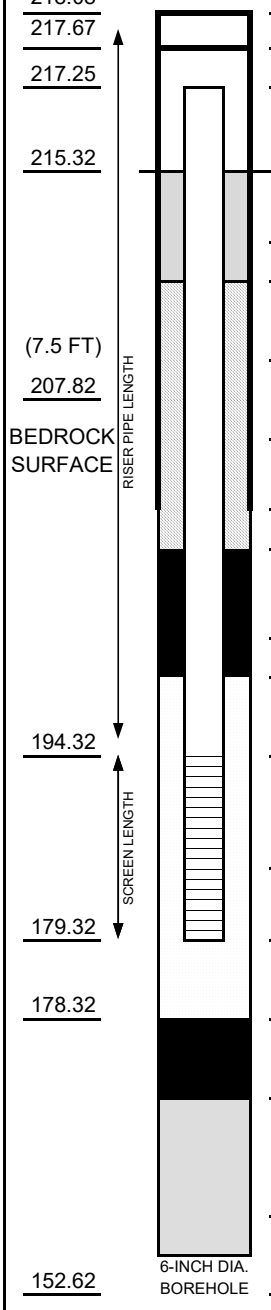
PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: _____

WELL CONSTRUCTION DIAGRAM (ABOVE-GRADE)

PROJ. NAME:	NYSDEC Dutchess County Fire Training Center			WELL ID:	**BMW-104**
PROJ. NO:	453208	DATE INSTALLED: 4/1/2025	INSTALLED BY: AARCO		CHECKED BY: JK

ELEVATION (DATUM: NAVD 88)	DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)
218.08	2.8 TOP OF STANDPIPE
217.67	2.3 TOP OF CASING
217.25	1.9 TOP OF RISER
215.32	0.0 GROUND SURFACE
	SURFACE SEAL MATERIAL: CEMENT
	0.5 SURFACE SEAL
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
(7.5 FT)	
207.82	GROUT/BACKFILL METHOD: TREMIE
BEDROCK SURFACE	
	15.9 BOTTOM OF CASING
	17.0 GROUT
	BENTONITE SEAL MATERIAL: PELLETS
	19.0 BENTONITE SEAL
194.32	21.0 TOP OF SCREEN
	FILTER PACK MATERIAL: FINE, WASHED SAND
179.32	36.0 BOTTOM OF SCREEN
178.32	37.0 BOTTOM OF FILTER PACK
	38.0 BENTONITE PLUG
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
	GROUT/BACKFILL METHOD - TREMIE
152.62	62.7 HOLE BOTTOM



NOTES:
The depicted well construction diagram is not to scale.

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC
PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS
SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

OPEN BEDROCK BOREHOLE DIAMETER: 6 IN. FROM -15.9 TO -62.7 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM +2.3 TO -15.9 FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 2 HOURS
WATER REMOVED: 17 GALLONS
WATER ADDED: 0.5 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: TURBID, GREY
COLOR BEFORE: GREYISH
CLARITY AFTER: CLEAR
COLOR AFTER: CLEAR

ODOR (IF PRESENT): N/A

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	36.91	T/PVC	4/2/2025	1235
DTB AFTER DEVELOPING:	36.99	T/PVC	4/2/2025	1430
SWL BEFORE DEVELOPING:	1.82	T/PVC	4/2/2025	1235
SWL AFTER DEVELOPING:	2.01	T/PVC	4/2/2025	1430
OTHER SWL:		T/PVC		
OTHER SWL:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO
PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO
LOCK KEY NUMBER: _____

WELL CONSTRUCTION DIAGRAM (ABOVE-GRADE)

PROJ. NAME:	NYSDEC Dutchess County Fire Training Center			WELL ID:	**BMW-105**
PROJ. NO:	453208	DATE INSTALLED: 3/31/2025	INSTALLED BY: AARCO		CHECKED BY: JK

ELEVATION (DATUM: NAVD 88)	DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)
217.14	2.2 TOP OF STANDPIPE
216.86	1.9 TOP OF CASING
216.39	1.4 TOP OF RISER
214.96	0.0 GROUND SURFACE
	SURFACE SEAL MATERIAL: CEMENT
	1.0 SURFACE SEAL
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
(8.0 FT)	GROUT/BACKFILL METHOD: TREMIE
206.96 BEDROCK SURFACE	
	17.0 GROUT
	18.2 BOTTOM OF CASING
	BENTONITE SEAL MATERIAL: PELLETS
	19.0 BENTONITE SEAL
193.96	21.0 TOP OF SCREEN
	FILTER PACK MATERIAL: FINE, WASHED SAND
183.96	31.0 BOTTOM OF SCREEN
180.96	34.0 BOTTOM OF FILTER PACK
	37.0 BENTONITE PLUG
	GROUT/BACKFILL MATERIAL: BENTONITE/CEMENT SLURRY
	GROUT/BACKFILL METHOD - TREMIE
152.86	62.1 HOLE BOTTOM



NOTES:
The depicted well construction diagram is not to scale.

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC
PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS
SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

OPEN BEDROCK BOREHOLE DIAMETER: 6 IN. FROM -18.2 TO -62.1 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM +2.0 TO -18.2 FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 1.25 HOURS
WATER REMOVED: 27 GALLONS
WATER ADDED: 0.5 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: TURBID, MURKY
COLOR BEFORE: CLEAR-GREY
CLARITY AFTER: CLEAR
COLOR AFTER: CLEAR

ODOR (IF PRESENT): NONE

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	31.01	T/PVC	4/2/2025	1000
DTB AFTER DEVELOPING:	31.07	T/PVC	4/2/2025	1115
SWL BEFORE DEVELOPING:	1.32	T/PVC	4/2/2025	1000
SWL AFTER DEVELOPING:	1.51	T/PVC	4/2/2025	1115
OTHER SWL:		T/PVC		
OTHER SWL:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO
PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO
LOCK KEY NUMBER: _____

Attachment 5

February 2025 Bedrock Monitoring Well Construction Recommendations Memorandum

TRC
3 Corporate Drive, Suite 202
Clifton Park, New York 12065

Main 518.348.1190

Memorandum

To: Mr. Edward Koppers
Assistant Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau D
625 Broadway, 12th Floor
Albany, New York 12233-7014

From: Justin King
Senior Project Manager
TRC Engineers, Inc.

Subject: Bedrock Monitoring Well Construction Recommendations
Phase III Remedial Investigation
Dutchess County Fire Training Center - Site No. 314128
Standby Engineering Services Contract
Work Assignment No. D009812-22.1

Date: February 19, 2025

CC: Anthony Bollasina, NYSDEC
Dave Glass, TRC
Jim Magda, TRC

Project No.: 453208.0000.0000

This memorandum summarizes the results of bedrock hydrogeological investigations completed as part of the Phase III RI in November and December 2024 at the Dutchess County Fire Training Center (NYSDEC Site No. 314128). The objective of this memorandum is to present bedrock monitoring well construction recommendations for your consideration. Our drilling subcontractor is tentatively scheduled to complete well construction during the week of March 3, 2025. Note that additional in-depth details regarding the completed field activities will be presented in the Phase III RI Field Activities Summary Report (FASR).

Summary of Well Installations

In accordance with the *July 2024 Phase III RI Work Plan (*Work Plan), between September 4 and October 3, 2024, drilling for five 6-inch diameter open hole bedrock monitoring wells (BMW-101 through BMW-105) and two 2-inch diameter overburden monitoring wells (MW-301 and MW-302) was completed under TRC's supervision by our standby drilling subcontractor, AARCO Environmental Services Corp. of Lindenhurst, New York (AARCO). The locations of the new wells can be found on **Figure 1**.

Approximate details regarding the open bedrock holes are summarized in the table below.

Monitoring Well Identification	Depth to Bedrock (feet bgs)	Steel Casing Interval (feet bgs)	Total Depth (feet bgs)	Total Open Bedrock Borehole (feet)	Surface Completion	Installation Date
BMW-101	3	0 - 9	55	46	12-Inch Flush Manhole	September 27, 2024
BMW-102	20	0 - 25	72	47	12-Inch Flush Manhole	September 26, 2024
BMW-103	10	0 – 16	60.5	44.5	12-Inch Flush Manhole	September 25, 2024
BMW-104	7.5	0 - 16	63	47	8-Inch Steel Standpipe	September 24, 2024
BMW-105	8	0 - 18	62	44	8-Inch Steel Standpipe	September 23, 2024

Additionally, approximate overburden monitoring well construction details are summarized below.

Monitoring Well Identification	Top of Screen Depth (feet bgs)	Bottom of Screen Depth (feet bgs)	Slot Size	Surface Completion	Installation Date
MW-301	3	9	0.01	8-Inch Steel Standpipe	September 13, 2024
MW-302	3.5	8.5	0.01	8-Inch Steel Standpipe	October 3, 2024

Summary of Borehole Geophysics

Following drilling and development, on October 8 and 9, 2024, Hager-Richter Geoscience, Inc. of Fords, New Jersey (HRGS) completed downhole geophysics on each open bedrock hole. The purpose of the downhole geophysics was to identify transmissive bedrock fractures, to inform final monitoring well completion details (i.e., screen length, depth, etc.). HRGS completed the following tests:

- Fluid temperature and conductivity logging
- Caliper logging
- Optical and acoustic televiewer
- Natural gamma ray
- Heat pulse flow meter under ambient and stress/pumping conditions

The final January 2025 Borehole Geophysical Logging Data Report is provided in **Attachment 1**. Additionally, TRC was provided a preliminary information deliverable (which contained similar information) in October 2024, used solely for the purpose of packer test interval selection (discussed further below). In summary, the downhole geophysical survey identified numerous potentially transmissive fractures within each borehole. TRC utilized the information in the Geophysical Logging Data Report to select packer test zones ranging from 5 to 10 feet in length. A summary of identified fractures and selected packer test zones, adjusted to feet below ground surface (bgs), is provided on **Table 1** (attached).

In addition to the completed geophysics, HRGS also noted borehole deviations during the testing. HRGS informed TRC on November 1, 2024 that each borehole deviated from vertical more than would be expected for the depths drilled. While each borehole deviated from vertical, the deviations did not impact the subsequent packer testing activity. Due to the borehole deviations, minor modifications to well construction including the use of filter sand pre-packed screens is recommended (discussed further below).

Following the geophysical survey, AARCO finished each open hole bedrock and overburden monitoring well either at or above ground surface for protection during the winter season. The above ground steel casings at BMW-102 and BMW-103 were cut to just below ground surface to allow installation of flush-mount manholes. Please note that references to feet below Top of Casing (TOC), in the attached HRGS Geophysical Logging Data Report, will be revised to feet bgs and presented as such in the Phase III RI FASR.

Summary of Packer Testing Activities

Between November 13 and December 10, 2024, AARCO completed packer testing at each of the test zones identified in **Table 1**. Each test interval was isolated using a double packer system, separated by a section of slotted steel rod with spacing selected based on the distribution of fractures at each interval. After inflating the packers, groundwater in each test interval was purged using a per- and polyfluoroalkyl substances (PFAS)-free submersible pump and high-density polyethylene (HDPE) tubing. To verify test adequacy, water levels, pressure, and temperature above, within, and below each test zone were continuously monitored in real time using data-loggers. Samples were collected for laboratory analysis after indicator parameters (i.e., pH, conductivity, temperature, dissolved oxygen [DO], oxygen reduction potential [ORP], and turbidity) stabilized. A total of 28 samples (including 1 duplicate) were submitted to Eurofins of Buffalo, New York for laboratory analysis of PFAS by United States Environmental Protection Agency (USEPA) Method 1633.

Packer Test Analytical Results

As shown in **Table 2**, perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS) were either not detected above laboratory reporting limits or were detected at concentrations below Class GA criteria (2.7 nanograms per liter (ng/l) for PFOS and 6.7 ng/l for PFOA).

At BMW-105 in both packer intervals (18 to 28 feet bgs and 36 to 41 feet bgs), PFOA was detected slightly above the April 2024 USEPA National Drinking Water Standard (NDWS) of 4.0 ng/L. All other USEPA regulated compounds including perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA), perfluorohexane sulfonic acid (PFHxS), perfluorononanoic acid (PFNA), and the unitless hazard index (mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and perfluorobutane sulfonic acid (PFBS)) were either not detected above laboratory reporting limits or were detected at concentrations below the NDWS.

Bedrock Monitoring Well Completion Recommendations

The packer testing analytical results indicate non-detect or low concentrations of PFAS in bedrock groundwater, particularly when compared to historical overburden groundwater sampling results. It is recommended that each open hole bedrock well be converted into a single screened sentinel well, each with 10 to 15 feet of screen, installed across transmissive fractures. This will allow the detection of PFAS, should PFAS potentially migrate from the source overburden area (eastern central portion of the Fire Training Center) into the underlying bedrock aquifer. Due to the borehole deviations identified above, filter sand pre-packed screens should be used to avoid direct contact between the borehole wall and well screen. Recommended bedrock monitoring well construction details for each well are shown on **Figures 2** through **6**.

Following your review of the above recommendations, please let me know if you are in concurrence or have any questions. As noted at the beginning of this memorandum, AARCO is scheduled to complete the installation activities during the week of March 3, 2025. If you have any questions or concerns, please do not hesitate to let us know.

Attachments

Table 1	Summary of Bedrock Fractures and Packer Test Intervals
Table 2	Packer Testing Analytical Results
Figure 1	Phase III RI Monitoring Well Location Map
Figure 2	Recommended Well Construction Diagram – BMW-101
Figure 3	Recommended Well Construction Diagram – BMW-102
Figure 4	Recommended Well Construction Diagram – BMW-103
Figure 5	Recommended Well Construction Diagram – BMW-104
Figure 6	Recommended Well Construction Diagram – BMW-105
Attachment 1	Borehole Geophysical Logging – Data Report, Hager Richter Geoscience, January 2025

TABLES

Table 1
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
WA No. D009812-22.1
Summary of Bedrock Fractures and Packer Test Intervals

BMW-101					
Top of Casing (feet)	**Ground Surface Elevation (feet)**	**Bottom of Casing (feet below TOC)**	**Bottom of Casing (feet bgs)**	**Bottom of Borehole (feet below TOC)**	**Bottom of Borehole (feet bgs)**
0.0	0.0	9.2	9.2	54.7	54.7
HGRS Bedrock Fracture Category*	**Depth (feet below TOC)**	**Depth (feet bgs)**	**Dip Azimuth (degrees)**	**Dip Angle (degrees)**	**Packer Test Depth (feet bgs)**
Fracture Rank 1	9.5	9.5	357	25	3 - 13
Fracture Rank 1	11.3	11.3	156	45	
Fracture Rank 1	12.9	12.9	196	61	
Fracture Rank 1	13.1	13.1	19	34	
Fracture Rank 1	13.7	13.7	149	56	
Fracture Rank 1	13.9	13.9	155	57	
Fracture Rank 1	16.8	16.8	89	12	
Fracture Rank 1	17.4	17.4	24	48	
Fracture Rank 1	19.9	19.9	40	41	19 - 29
Fracture Rank 1	20.1	20.1	23	40	
Fracture Rank 1	22.2	22.2	257	43	
Fracture Rank 1	24.9	24.9	72	21	
Fracture Rank 1	25.4	25.4	70	59	
Fracture Rank 1	25.8	25.8	52	68	
Fracture Rank 1	27.4	27.4	9	48	
Fracture Rank 1	27.8	27.8	170	51	
Fracture Rank 1	42.9	42.9	154	44	39 - 49
Fracture Rank 1	44.8	44.8	337	12	
Fracture Rank 1	45.4	45.4	344	10	
Fracture Rank 1	45.7	45.7	126	67	
Fracture Rank 1	46.9	46.9	95	38	
Fracture Rank 1	48.8	48.8	135	64	
Fracture Rank 1	51.4	51.4	55	9	
BMW-102					
Top of Casing (feet)	**Ground Surface Elevation (feet)**	**Bottom of Casing (feet below TOC)**	**Bottom of Casing (feet bgs)**	**Bottom of Borehole (feet below TOC)**	**Bottom of Borehole (feet bgs)**
3.1	0.0	28.3	25.2	75.3	72.2
HGRS Bedrock Fracure Category*	**Depth (feet below TOC)**	**Depth (feet bgs)**	**Dip Azimuth (degrees)**	**Dip Angle (degrees)**	**Packer Test Depth (feet bgs)**
Fracture Rank 1	28.8	25.7	256	58	17.9 - 27.9
Fracture Rank 1	29.3	26.2	297	53	
Fracture Rank 1	29.6	26.5	170	52	
Fracture Rank 1	31.0	27.9	147	52	
Fracture Rank 1	35.1	32.0	154	66	31.9 - 41.9
Fracture Rank 1	36.4	33.3	157	56	
Fracture Rank 2	36.9	33.8	139	45	
Fracture Rank 1	37.0	33.9	147	49	
Fracture Rank 2	38.6	35.5	303	13	
Fracture Rank 1	39.4	36.3	143	56	
Fracture Rank 3	39.7	36.6	142	56	
Fracture Rank 1	41.5	38.4	149	22	
Fracture Rank 1	41.8	38.7	153	35	
Fracture Rank 1	48.3	45.2	320	67	
Fracture Rank 1	51.7	48.6	102	42	
Fracture Rank 1	53.4	50.3	146	56	
Fracture Rank 1	56.2	53.1	73	26	

Table 1
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
WA No. D009812-22.1
Summary of Bedrock Fractures and Packer Test Intervals

BMW-102 (cont.)					
Top of Casing (feet)	**Ground Surface Elevation (feet)**	**Bottom of Casing (feet below TOC)**	**Bottom of Casing (feet bgs)**	**Bottom of Borehole (feet below TOC)**	**Bottom of Borehole (feet bgs)**
3.1	0.0	28.3	25.2	75.3	72.2
HGRS Bedrock Fracure Category*	**Depth (feet below TOC)**	**Depth (feet bgs)**	**Dip Azimuth (degrees)**	**Dip Angle (degrees)**	**Packer Test Depth (feet bgs)**
Fracture Rank 1	56.3	53.2	66	22	
Fracture Rank 1	57.0	53.9	102	21	
Fracture Rank 1	57.4	54.3	62	35	
Fracture Rank 1	59.1	56.0	128	47	
Fracture Rank 1	61.8	58.7	85	30	
Fracture Rank 1	62.1	59.0	286	1	
Fracture Rank 1	62.3	59.2	294	4	
Fracture Rank 1	62.7	59.6	41	36	
Fracture Rank 1	67.6	64.5	143	30	
Fracture Rank 1	69.6	66.5	279	3	
Fracture Rank 2	73.5	70.4	104	57	
BMW-103					
Top of Casing (feet)	**Ground Surface Elevation (feet)**	**Bottom of Casing (feet below TOC)**	**Bottom of Casing (feet bgs)**	**Bottom of Borehole (feet below TOC)**	**Bottom of Borehole (feet bgs)**
2.2	0.0	18.2	16.0	62.6	60.4
HGRS Bedrock Fracure Category*	**Depth (feet below TOC)**	**Depth (feet bgs)**	**Dip Azimuth (degrees)**	**Dip Angle (degrees)**	**Packer Test Depth (feet bgs)**
Fracture Rank 2	18.5	16.3	347	28	
Fracture Rank 1	20.1	17.9	8	49	
Fracture Rank 1	21.2	19.0	37	47	
Fracture Rank 1	21.4	19.2	38	51	
Fracture Rank 1	22.6	20.4	64	39	
Fracture Rank 1	23.4	21.2	60	33	
Fracture Rank 1	25.9	23.7	45	17	22 - 32
Fracture Rank 1	30.2	28.0	317	28	
Fracture Rank 2	30.9	28.7	354	17	
Fracture Rank 2	31.0	28.8	360	16	
Fracture Rank 1	35.9	33.7	1	13	
Fracture Rank 1	36.0	33.8	278	10	
Fracture Rank 1	38.1	35.9	87	58	
Fracture Rank 1	38.6	36.4	64	70	
Fracture Rank 1	39.1	36.9	55	56	
Fracture Rank 1	40.0	37.8	45	35	
Fracture Rank 1	41.1	38.9	243	28	37.8 - 47.8
Fracture Rank 1	42.0	39.8	80	44	
Fracture Rank 1	42.1	39.9	270	27	
Fracture Rank 1	42.9	40.7	138	62	
Fracture Rank 2	43.0	40.8	146	65	
Fracture Rank 1	44.8	42.6	165	68	
Fracture Rank 1	45.5	43.3	151	61	
Fracture Rank 2	45.8	43.6	136	42	
Fracture Rank 3	46.6	44.4	29	45	
Fracture Rank 2	46.7	44.5	34	40	
Fracture Rank 1	46.8	44.6	273	49	
Fracture Rank 2	46.9	44.7	38	23	
Fracture Rank 1	47.8	45.6	357	42	
Fracture Rank 2	51.6	49.4	61	8	

Table 1
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
WA No. D009812-22.1
Summary of Bedrock Fractures and Packer Test Intervals

BMW-103 (cont.)					
Top of Casing (feet)	**Ground Surface Elevation (feet)**	**Bottom of Casing (feet below TOC)**	**Bottom of Casing (feet bgs)**	**Bottom of Borehole (feet below TOC)**	**Bottom of Borehole (feet bgs)**
2.2	0.0	18.2	16.0	62.6	60.4
HGRS Bedrock Fracure Category*	**Depth (feet below TOC)**	**Depth (feet bgs)**	**Dip Azimuth (degrees)**	**Dip Angle (degrees)**	**Packer Test Depth (feet bgs)**
Fracture Rank 1	56.6	54.4	147	60	
Fracture Rank 1	58.8	56.6	58	37	
BMW-104					
Top of Casing (feet)	**Ground Surface Elevation (feet)**	**Bottom of Casing (feet below TOC)**	**Bottom of Casing (feet bgs)**	**Bottom of Borehole (feet below TOC)**	**Bottom of Borehole (feet bgs)**
2.3	0.0	18.2	15.9	65.0	62.7
HGRS Bedrock Fracure Category*	**Depth (feet below TOC)**	**Depth (feet bgs)**	**Dip Azimuth (degrees)**	**Dip Angle (degrees)**	**Packer Test Depth (feet bgs)**
Fracture Rank 1	18.5	16.2	319	34	14.7 - 19.7
Fracture Rank 2	20.1	17.8	41	40	
Fracture Rank 1	20.5	18.2	34	50	
Fracture Rank 1	20.8	18.5	31	48	
Fracture Rank 1	22.0	19.7	5	71	
Fracture Rank 1	23.0	20.7	1	71	
Fracture Rank 1	23.4	21.1	245	34	
Fracture Rank 1	23.5	21.2	357	64	
Fracture Rank 1	24.9	22.6	72	40	21.7 - 26.7
Fracture Rank 1	26.8	24.5	309	21	
Fracture Rank 2	27.0	24.7	305	17	
Fracture Rank 1	27.5	25.2	174	51	
Fracture Rank 1	28.6	26.3	352	74	
Fracture Rank 1	29.0	26.7	355	72	
Fracture Rank 1	31.8	29.5	358	33	
Fracture Rank 1	31.9	29.6	0	35	
Fracture Rank 1	33.8	31.5	15	16	
Fracture Rank 1	36.0	33.7	359	38	31.7 - 36.7
Fracture Rank 2	36.2	33.9	15	44	
Fracture Rank 1	37.3	35.0	145	20	
Fracture Rank 1	40.3	38.0	9	38	
Fracture Rank 1	42.6	40.3	48	25	
Fracture Rank 1	43.2	40.9	37	19	
Fracture Rank 1	47.7	45.4	26	45	
Fracture Rank 1	47.9	45.6	26	40	
Fracture Rank 2	48.0	45.7	26	39	
Fracture Rank 1	48.7	46.4	136	24	
Fracture Rank 1	49.4	47.1	121	26	
Fracture Rank 1	51.4	49.1	103	62	
Fracture Rank 1	51.8	49.5	23	24	
Fracture Rank 1	51.9	49.6	37	32	
Fracture Rank 1	52.4	50.1	13	22	
Fracture Rank 1	52.6	50.3	10	25	
Fracture Rank 1	62.6	60.3	164	51	57.7 - 62.7
Fracture Rank 2	62.8	60.5	167	45	
Fracture Rank 1	63.4	61.1	146	28	
Fracture Rank 1	63.8	61.5	126	28	
Fracture Rank 1	63.9	61.6	114	25	

Table 1
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
WA No. D009812-22.1
Summary of Bedrock Fractures and Packer Test Intervals

BMW-105					
Top of Casing (feet)	**Ground Surface Elevation (feet)**	**Bottom of Casing (feet below TOC)**	**Bottom of Casing (feet bgs)**	**Bottom of Borehole (feet below TOC)**	**Bottom of Borehole (feet bgs)**
2.0	0.0	20.2	18.2	64.1	62.1
HGRS Bedrock Fracure Category*	**Depth (feet below TOC)**	**Depth (feet bgs)**	**Dip Azimuth (degrees)**	**Dip Angle (degrees)**	**Packer Test Depth (feet bgs)**
Fracture Rank 1	22.7	20.7	174	51	18 - 28
Fracture Rank 1	23.0	21.0	145	47	
Fracture Rank 2	24.1	22.1	173	29	
Fracture Rank 2	24.9	22.9	164	17	
Fracture Rank 1	27.1	25.1	30	63	
Fracture Rank 1	28.5	26.5	121	40	
Fracture Rank 1	28.8	26.8	138	53	
Fracture Rank 3	29.0	27.0	137	32	
Fracture Rank 2	29.1	27.1	151	61	
Fracture Rank 1	29.8	27.8	146	66	
Fracture Rank 1	30.9	28.9	264	6	
Fracture Rank 1	34.0	32.0	105	58	
Fracture Rank 1	35.8	33.8	124	67	
Fracture Rank 1	40.2	38.2	132	64	36 - 41
Fracture Rank 2	40.7	38.7	136	39	
Fracture Rank 2	40.8	38.8	144	42	
Fracture Rank 2	40.9	38.9	147	42	
Fracture Rank 3	41.1	39.1	170	37	
Fracture Rank 1	44.5	42.5	131	68	
Fracture Rank 2	50.4	48.4	165	61	
Fracture Rank 1	51.4	49.4	344	56	
Fracture Rank 1	55.3	53.3	155	72	
Fracture Rank 1	62.1	60.1	80	55	

Notes
bgs - Below Ground Surface
TOC - Top of Casing
HGRS - Hager-Richter Geoscience, Inc.

*See January 2025 HGRS Geophysical Report for descriptions on fracture ranking and borehole visualizations.
Orange highlighting indicates the completed packer test interval and captured fractures.

DRAFT TABLE
DATA PENDING VALIDATION

Table 2
New York State Department of Environmental Conservation
Dutchess County Fire Training Center – Site No. 314128
WA No. D009812-22.1
Packer Testing Analytical Results

Location:			BMW-101			BMW-102		BMW-103		BMW-104				BMW-105		
Sample ID:			DCFTC-BMW-101 (3-13)-20241120	DCFTC-BMW-101 (19-29)-20241120	DCFTC-BMW-101 (39-49)-20241119	DCFTC-BMW-102 (21-31)-20241121	DCFTC-BMW-102 (35-45)-20241121	DCFTC-BMW-103 (25-45)-20241125	DCFTC-BMW-103 (37-47)-20241125	DCFTC-BMW-104 (17-22)-20241206	DCFTC-BMW-104 (24-29)-20241206	DCFTC-BMW-104 (34-39)-20241206	DCFTC-BMW-104 (60-65)-20241209	DCFTC-BMW-105 (20-30)-20241203	DCFTC-BMW-105 (38-43)-20241204	DCFTC-PT-DUP-01-20241204
Lab Sample ID:			480-226019-3	480-226019-2	480-226019-1	480-226019-5	480-226019-4	480-226019-7	480-226019-6	480-226218-3	480-226218-2	480-226218-1	480-226218-4	480-226019-8	480-226019-9	480-226019-10
Sample Date:			11/20/2024	11/20/2024	11/19/2024	11/21/2024	11/21/2024	11/25/2024	11/25/2024	12/6/2024	12/6/2024	12/6/2024	12/9/2024	12/3/2024	12/4/2024	12/4/2024
Packer Test Interval (feet bgs)**:			3 - 13	19 - 29	39 - 49	17.9 - 27.9	31.9 - 41.9	22 - 32	37.8 - 47.8	14.7 - 19.7	21.7 - 26.7	31.7 - 36.7	57.7 - 62.7	18 - 28	36 - 41	36 - 41
Analyte	USEPA NDWS	NYSDEC AWQV	Results (ng/L)***													
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NC	NC	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7.0 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NC	NC	39 U	37 U	35 U	38 U	41 U	41 U	36 U	44 UT	80 UT	80 UT	76 UT	41 U	43 U	39 U
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NC	NC	7.8 U	7.4 U	7.1 U	7.6 U	8.1 U	8.2 U	7.3 U	8.7 U	16 U	16 U	15 U	8.1 U	8.6 U	7.8 U
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	NC	NC	39 U	37 U	35 U	38 U	41 U	41 U	36 U	44 U	80 U	80 U	76 U	41 U	43 U	39 U
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	NC	NC	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7.0 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NC	NC	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7.0 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NC	NC	1.7 J	1.8 J	1.8 J	6.1 U	6.5 U	6.6 U	5.8 U	7.0 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NC	NC	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7.0 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NC	NC	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7.0 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	NC	NC	16 U	15 U	14 U	15 U	16 U	16 U	15 U	17 U	32 U	32 U	30 U	16 U	17 U	16 U
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	NC	NC	16 U	15 U	14 U	15 U	16 U	16 U	15 U	17 U	32 U	32 U	30 U	16 U	17 U	16 U
N-Methylperfluorooctane sulfonamide (NMeFOSA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NC	NC	3.1 U	3.0 U	2.8 U	3.1 U	3.2 U	3.3 U	2.9 U	3.5 U	6.4 U	6.4 U	6.0 U	3.3 U	3.5 U	3.1 U
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	10	NC	6.3 U	5.9 U	5.6 U	6.1 U	6.5 U	6.6 U	5.8 U	7.0 U	13 U	13 U	12 U	6.5 U	6.9 U	6.2 U
Perfluoro-3,6-dioxaheptanoic acid (PFPE-3)	NC	NC	3.1 U	3.0 U	2.8 U	3.1 U	3.2 U	3.3 U	2.9 U	3.5 U	6.4 U	6.4 U	6.0 U	3.3 U	3.5 U	3.1 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NC	NC	3.1 U	3.0 U	2.8 U	3.1 U	3.2 U	3.3 U	2.9 U	3.5 U	6.4 U	6.4 U	6.0 U	3.3 U	3.5 U	3.1 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NC	NC	3.1 U	3.0 U	2.8 U	3.1 U	3.2 U	3.3 U	2.9 U	3.5 U	6.4 U	6.4 U	6.0 U	3.3 U	3.5 U	3.1 U
Perfluorobutane sulfonic acid (PFBS)	NC	NC	0.61 J	0.62 J	0.63 J	1.4 J	1.1 J	1.6 U	0.36 J	9.4	12	10	2.9 J	11	9.8	8.9
Perfluorobutanoic acid (PFBA)	NC	NC	8.4	9.0	8.5	6.1 U	6.5 U	2.0 J	2.4 J	2.4 J	4.0 J	13 U	12 U	5.2 J	4.5 J	4.2 J
Perfluorodecane sulfonic acid (PFDS)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluorodecanoic acid (PFDA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluorododecane sulfonic acid (PFDoS)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluorododecanoic acid (PFDoA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluoroheptane sulfonic acid (PFHpS)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluoroheptanoic acid (PFHpA)	NC	NC	1.7	1.8	2.0	1.5 U	1.6 U	1.6 U	1.5 U	0.53 J	3.2 U	3.2 U	3.0 U	0.82 J	0.94 J	0.86 J
Perfluorohexane sulfonic acid (PFHxS)	10	NC	1.3 J	1.4 J	1.4	1.5 U	1.6 U	1.6 U	1.5 U	0.48 J	3.2 U	3.2 U	3.0 U	1.1 J	0.87 J	0.88 J
Perfluorohexanoic acid (PFHxA)	NC	NC	3.6	4.0	3.8	1.5 U	1.6 U	0.42 JEMPC	0.69 J	1.2 J	1.3 J	1.3 J	3.0 U	1.7	2.4	1.8
Perfluorononane sulfonic acid (PFNS)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluorononanoic acid (PFNA)	10	NC	1.6 U	0.39 J	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluorooctane sulfonamide (PFOSA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluorooctane sulfonic acid (PFOS)	4.0	2.7	0.57 J	0.68 J	0.78 J	0.40 J	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.2 JEMPC	1.0 JEMPC	0.78 J
Perfluorooctanoic acid (PFOA)	4.0	6.7	2.1	2.4	2.4	0.41 J	1.6 U	1.6 U	1.5 U	1.0 J	1.4 J	1.5 J	0.87 J	**4.2**	**4.1**	3.5
Perfluoropentane sulfonic acid (PFPeS)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluoropentanoic acid (PFPeA)	NC	NC	9.8	10	10	3.1 U	3.2 U	1.1 J	1.7 J	1.4 J	6.4 U	6.4 U	6.0 U	2.4 J	2.6 J	2.5 J
Perfluorotetradecanoic acid (PFTA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluorotridecanoic acid (PFTrDA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Perfluoroundecanoic acid (PFUnA)	NC	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.5 U	1.7 U	3.2 U	3.2 U	3.0 U	1.6 U	1.7 U	1.6 U
Total Detected PFAS (TDP)	NC	NC	29.78	32.09	31.31	2.21	1.1	3.52	5.15	16.41	18.7	12.8	3.77	27.62	26.21	23.42
Hazard Index: Mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and PFBS	1*	NC	0.1303	0.1793	0.1403	--	--	--	--	0.0527	--	--	--	0.1155	0.0919	0.0925

Notes
feet bgs - feet below ground surface.
ng/L - nanograms per liter.
* Unitless value.
NC - No criteria.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - Not detected at the indicated laboratory reporting detection limit (RDL).
UT - Not detected; LCS and/or LCSD is outside acceptance limits, high biased.
JEMPC - Value is EMPC (estimated maximum possible concentration).
USEPA NDWS - United States Environmental Protection Agency, Final PFAS National Primary Drinking Water Regulation.
NYSDEC AWQV - NYSDEC Ambient Water Quality Standards and Guidance Values.
NYSDOH DW - New York State Department of Health, Adopted Maximum Contaminant Levels (MCLs) for Finished Drinking Water.
Bold and Gray Shading - Exceeds USEPA NDWS.

**Packer test intervals shown were adjusted from feet below Top of Casing (as indicated in sample ID) to feet below ground surface to match actual conditions following surface completions and consistency.
***Laboratory analytical data presented on this table has not been subject to validation, should be considered preliminary, and is subject to change post-validation.

FIGURES



LEGEND

- PARCEL BOUNDARY
- SURROUNDING PARCEL BOUNDARY
- ONSITE WATER IMPOUNDMENT
- COUNTY PROPOSED BUILDING EXPANSION
- CULVERT OR STORM SEWER AND FLOW DIRECTION
- SURFACE WATER FLOW DIRECTION
- FENCELINE
- MECHANICAL PIPE PLUG
- CENTRAL HUDSON GAS & ELECTRIC CORP. EASEMENT
- MONITORING WELL
- CORRUGATED STEEL PIPE
- OVERBURDEN MONITORING WELL (2024)
- BEDROCK MONITORING WELL (2024)

NOTES:

1. LOCATIONS AND DIMENSIONS OF PHYSICAL FEATURES AND PROPERTY BOUNDARIES ARE APPROXIMATE.

BASE MAP: NEARMAP IMAGERY DATED 4/14/2022
DATA SOURCES: TRC, PIVVOT
SHEET SIZE: 11X17L

1:1,200
1" = 100'
0 50 100 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD
HYDE PARK, DUTCHESS COUNTY, NEW YORK

TITLE:
PHASE III RI
MONITORING WELL LOCATION MAP

DRAWN BY:	L. LILL	PROJ. NO.:	453208.0000.0000
CHECKED BY:	R. VASAVADI		FIGURE 1
APPROVED BY:	J. KING		
DATE:	FEBRUARY 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: PhaseIII_RI.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
Saved By: LLILL on 1/31/2025 - 3:34:48 PM - File Path: T:\PROJECT\SYR\SGEC\453208_DutchessCountyFireTraining\2-APRX\Phase III_RI\PhaseIII_RI.aprx; Layout Name: Fig01_Monitoring_Well_Location_Map

RECOMMENDED WELL CONSTRUCTION DIAGRAM (FLUSH-MOUNT)

PROJ. NAME: NYSDEC Dutchess County Fire Training Center (Site No. 314128)			WELL ID: **BMW-101**
PROJ. NO: 453208	DATE INSTALLED: TBD	INSTALLED BY: AARCO	CHECKED BY: J. King

DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)

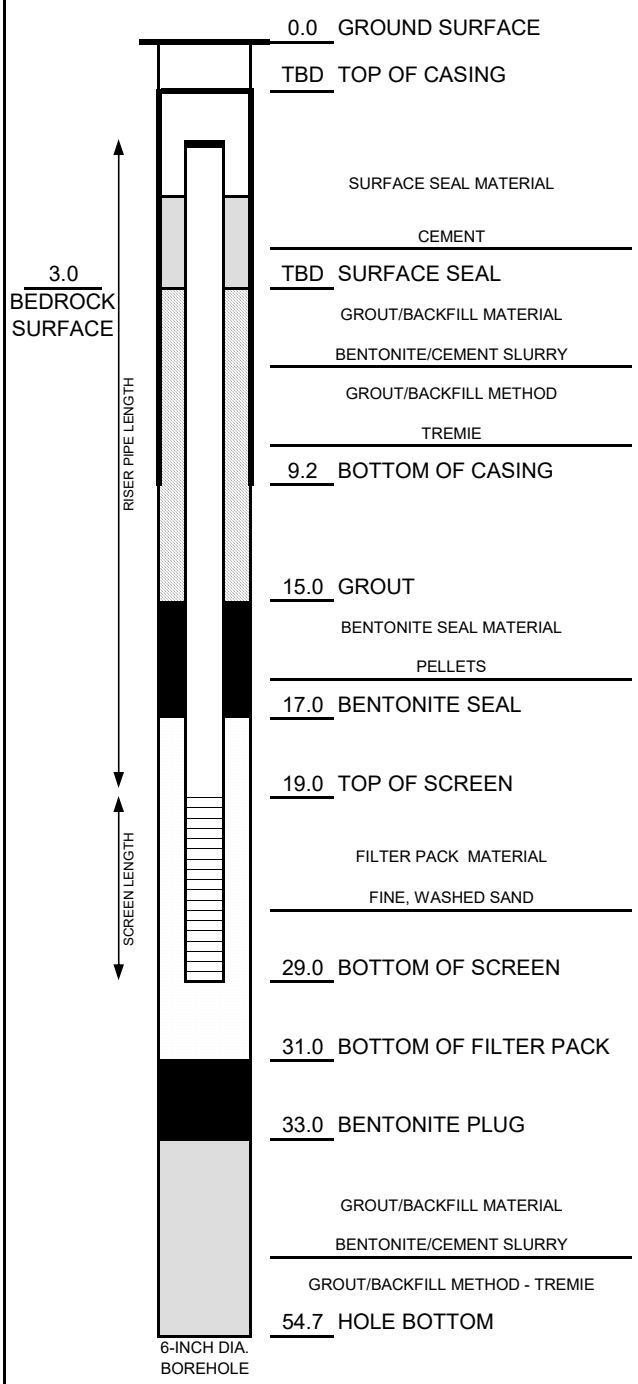


FIGURE 2

RECOMMENDED RISER AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

OPEN BEDROCK BOREHOLE DIAMETER: 6 IN. FROM 9.2 TO 54.7 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM 0 TO 9.2 FT.

RELEVANT PACKER TEST RESULTS

PACKER TEST DEPTH (FEET BGS)	DATE COMPLETED	CONCENTRATION (NG/L)		
		PFOA	PFOS	TDP
3 - 13	11/20/2024	2.1	0.57	29.78
19 - 29	11/20/2024	2.4	0.68	32.09
39 - 49	11/20/2024	2.4	0.78	31.31

NOTES

FEET BGS - FEET BELOW GROUND SURFACE

ND - NOT DETECTED AT THE LABORATORY REPORTING LIMIT

NG/L - NANOGRAMS PER LITER

PFOA - PERFUOROCTANOIC ACID

PFOS - PERFLUOROOCTANESULFONIC ACID

TDP - TOTAL DETECTED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

FIGURE NOTES

1. PACKER TEST INTERVALS WERE SELECTED BASED ON THE BOREHOLE GEOPHYSICAL SURVEY, COMPLETED IN OCTOBER 2024 BY HAGER-RICHTER GEOSCIENCE, INC.

2. FOR CLARITY, ONLY PFOA, PFOS, AND TDP SAMPLE CONCENTRATION DATA IS SHOWN. IN ADDITION, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLE FOR ADDITIONAL DETECTED ANALYTES, DUPLICATE ANALYTICAL DATA, AND LABORATORY QUALIFIERS.

3. ALL ANALYTICAL DATA PRESENTED ON THIS FIGURE IS PENDING VALIDATION AND CONSIDERED PRELIMINARY.

4. THE DEPICTED RECOMMENDED WELL CONSTRUCTION DIAGRAM IS NOT TO SCALE.

RECOMMENDED WELL CONSTRUCTION DIAGRAM (FLUSH-MOUNT)

PROJ. NAME: NYSDEC Dutchess County Fire Training Center (Site No. 314128)			WELL ID: **BMW-102**
PROJ. NO: 453208	DATE INSTALLED: TBD	INSTALLED BY: AARCO	CHECKED BY: J. King

DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)

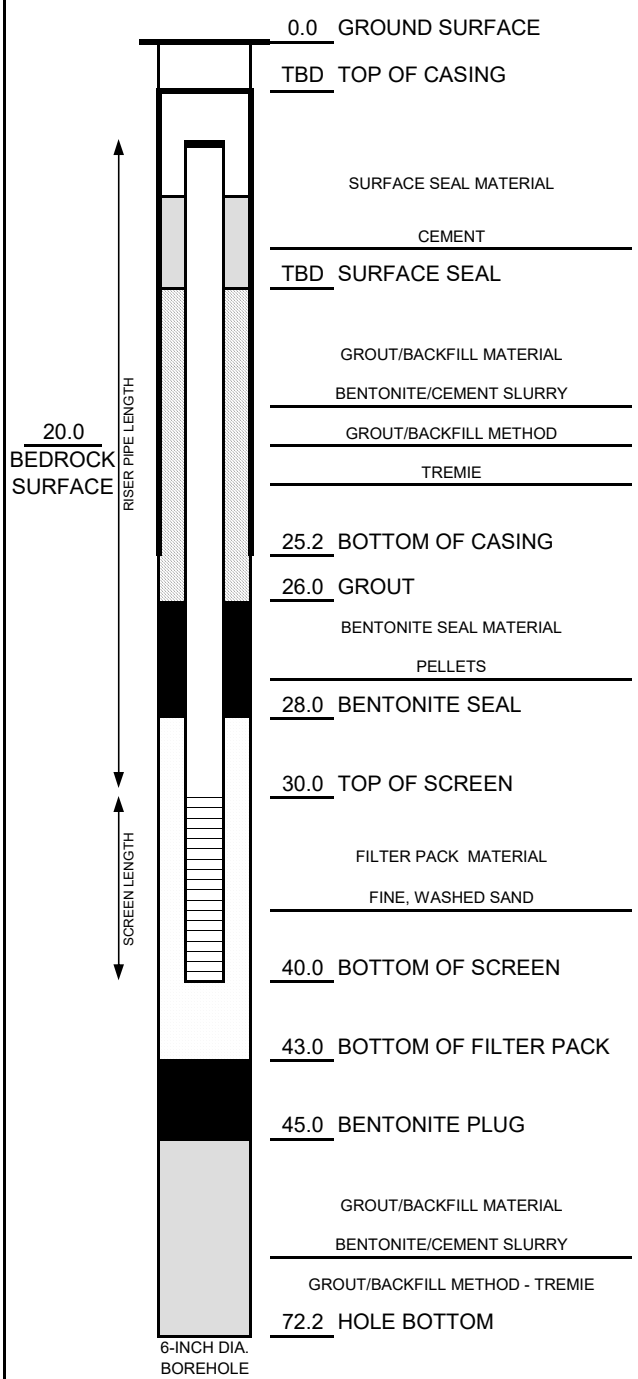


FIGURE 3

RECOMMENDED RISER AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

OPEN BEDROCK BOREHOLE DIAMETER: 6 IN. FROM 25.2 TO 72.2 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM 0 TO 25.2 FT.

RELEVANT PACKER TEST RESULTS

PACKER TEST DEPTH (FEET BGS)	DATE COMPLETED	CONCENTRATION (NG/L)		
		PFOA	PFOS	TDP
17.9 - 27.9	11/20/2024	0.41	0.40	2.21
31.9 - 41.9	11/20/2024	ND	ND	1.1

NOTES

FEET BGS - FEET BELOW GROUND SURFACE

ND - NOT DETECTED AT THE LABORATORY REPORTING LIMIT

NG/L - NANOGRAMS PER LITER

PFOA - PERFUOROCTANOIC ACID

PFOS - PERFLUOROOCTANESULFONIC ACID

TDP - TOTAL DETECTED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

FIGURE NOTES

1. PACKER TEST INTERVALS WERE SELECTED BASED ON THE BOREHOLE GEOPHYSICAL SURVEY, COMPLETED IN OCTOBER 2024 BY HAGER-RICHTER GEOSCIENCE, INC.

2. FOR CLARITY, ONLY PFOA, PFOS, AND TDP SAMPLE CONCENTRATION DATA IS SHOWN. IN ADDITION, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLE FOR ADDITIONAL DETECTED ANALYTES, DUPLICATE ANALYTICAL DATA, AND LABORATORY QUALIFIERS.

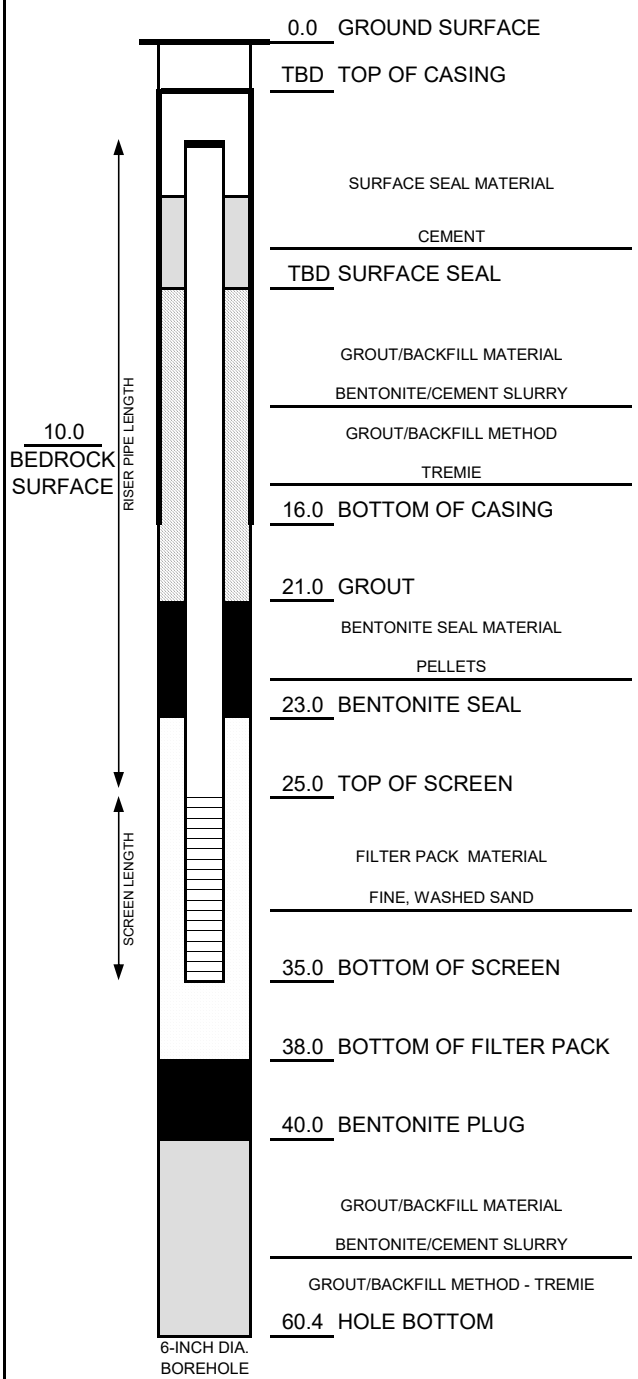
3. ALL ANALYTICAL DATA PRESENTED ON THIS FIGURE IS PENDING VALIDATION AND CONSIDERED PRELIMINARY.

4. THE DEPICTED RECOMMENDED WELL CONSTRUCTION DIAGRAM IS NOT TO SCALE.

RECOMMENDED WELL CONSTRUCTION DIAGRAM (FLUSH-MOUNT)

PROJ. NAME: NYSDEC Dutchess County Fire Training Center (Site No. 314128)			WELL ID: **BMW-103**
PROJ. NO: 453208	DATE INSTALLED: TBD	INSTALLED BY: AARCO	CHECKED BY: J. King

DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)



RECOMMENDED RISER AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

OPEN BEDROCK BOREHOLE DIAMETER: 6 IN. FROM 16.0 TO 60.4 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM 0 TO 16.0 FT.

RELEVANT PACKER TEST RESULTS

PACKER TEST DEPTH (FEET BGS)	DATE COMPLETED	CONCENTRATION (NG/L)		
		PFOA	PFOS	TDP
22 - 32	11/25/2024	ND	ND	3.52
37.8 - 47.8	11/25/2024	ND	ND	5.15

NOTES

FEET BGS - FEET BELOW GROUND SURFACE

ND - NOT DETECTED AT THE LABORATORY REPORTING LIMIT

NG/L - NANOGRAMS PER LITER

PFOA - PERFUOROCTANOIC ACID

PFOS - PERFLUOROOCTANESULFONIC ACID

TDP - TOTAL DETECTED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

FIGURE NOTES

1. PACKER TEST INTERVALS WERE SELECTED BASED ON THE BOREHOLE GEOPHYSICAL SURVEY, COMPLETED IN OCTOBER 2024 BY HAGER-RICHTER GEOSCIENCE, INC.

2. FOR CLARITY, ONLY PFOA, PFOS, AND TDP SAMPLE CONCENTRATION DATA IS SHOWN. IN ADDITION, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLE FOR ADDITIONAL DETECTED ANALYTES, DUPLICATE ANALYTICAL DATA, AND LABORATORY QUALIFIERS.

3. ALL ANALYTICAL DATA PRESENTED ON THIS FIGURE IS PENDING VALIDATION AND CONSIDERED PRELIMINARY.

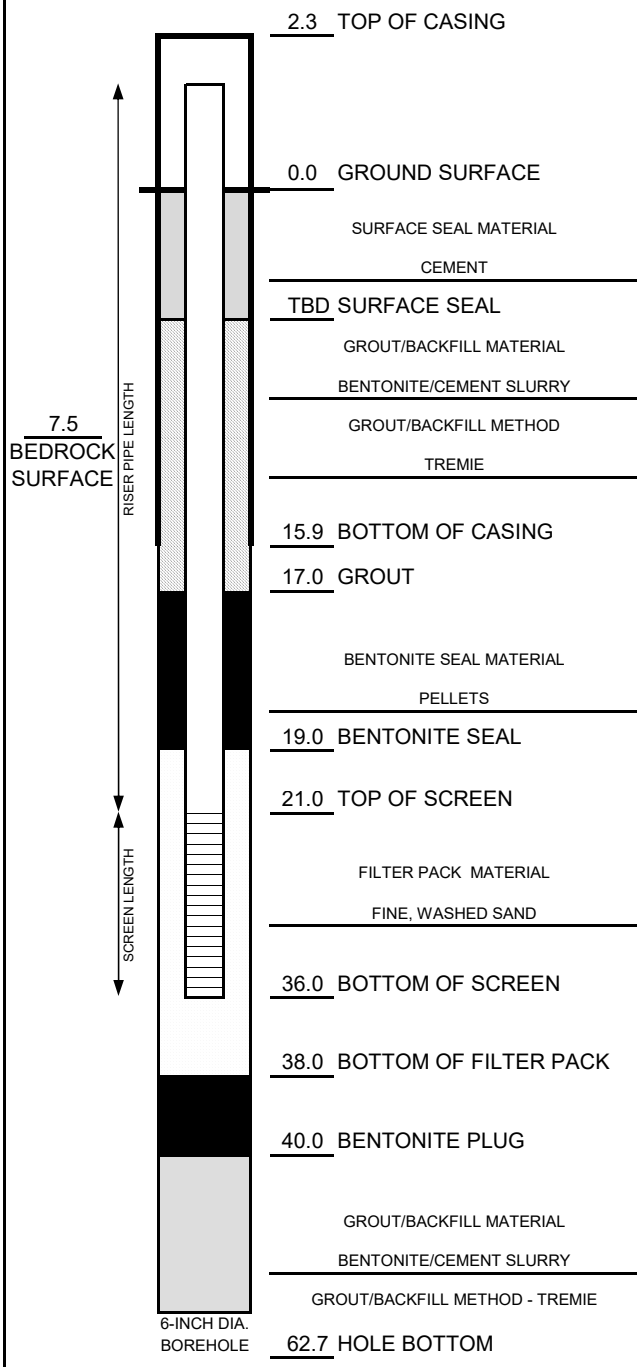
4. THE DEPICTED RECOMMENDED WELL CONSTRUCTION DIAGRAM IS NOT TO SCALE.

FIGURE 4

RECOMMENDED WELL CONSTRUCTION DIAGRAM (ABOVE-GRADE)

PROJ. NAME:	NYSDEC Dutchess County Fire Training Center (Site No. 314128)		WELL ID:	**BMW-104**
PROJ. NO:	453208	DATE INSTALLED: TBD	INSTALLED BY: AARCO	CHECKED BY: J. King

DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)



RECOMMENDED RISER AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

OPEN BEDROCK BOREHOLE DIAMETER: 6 IN. FROM -15.9 TO -62.7 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM +2.3 TO -15.9 FT.

RELEVANT PACKER TEST RESULTS

PACKER TEST DEPTH (FEET BGS)	DATE COMPLETED	CONCENTRATION (NG/L)		
		PFOA	PFOS	TDP
14.7 - 19.7	12/6/2024	1.0	ND	16.41
21.7 - 26.7	12/6/2024	1.4	ND	18.7
31.7 - 36.7	12/6/2024	1.5	ND	12.8
57.7 - 62.7	12/9/2024	0.87	ND	3.77

NOTES

FEET BGS - FEET BELOW GROUND SURFACE
ND - NOT DETECTED AT THE LABORATORY REPORTING LIMIT
NG/L - NANOGRAMS PER LITER
PFOA - PERFUOROCTANOIC ACID
PFOS - PERFLUOROOCTANESULFONIC ACID
TDP - TOTAL DETECTED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

FIGURE NOTES

1. PACKER TEST INTERVALS WERE SELECTED BASED ON THE BOREHOLE GEOPHYSICAL SURVEY, COMPLETED IN OCTOBER 2024 BY HAGER-RICHTER GEOSCIENCE, INC.

2. FOR CLARITY, ONLY PFOA, PFOS, AND TDP SAMPLE CONCENTRATION DATA IS SHOWN. IN ADDITION, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLE FOR ADDITIONAL DETECTED ANALYTES, DUPLICATE ANALYTICAL DATA, AND LABORATORY QUALIFIERS.

3. ALL ANALYTICAL DATA PRESENTED ON THIS FIGURE IS PENDING VALIDATION AND CONSIDERED PRELIMINARY.

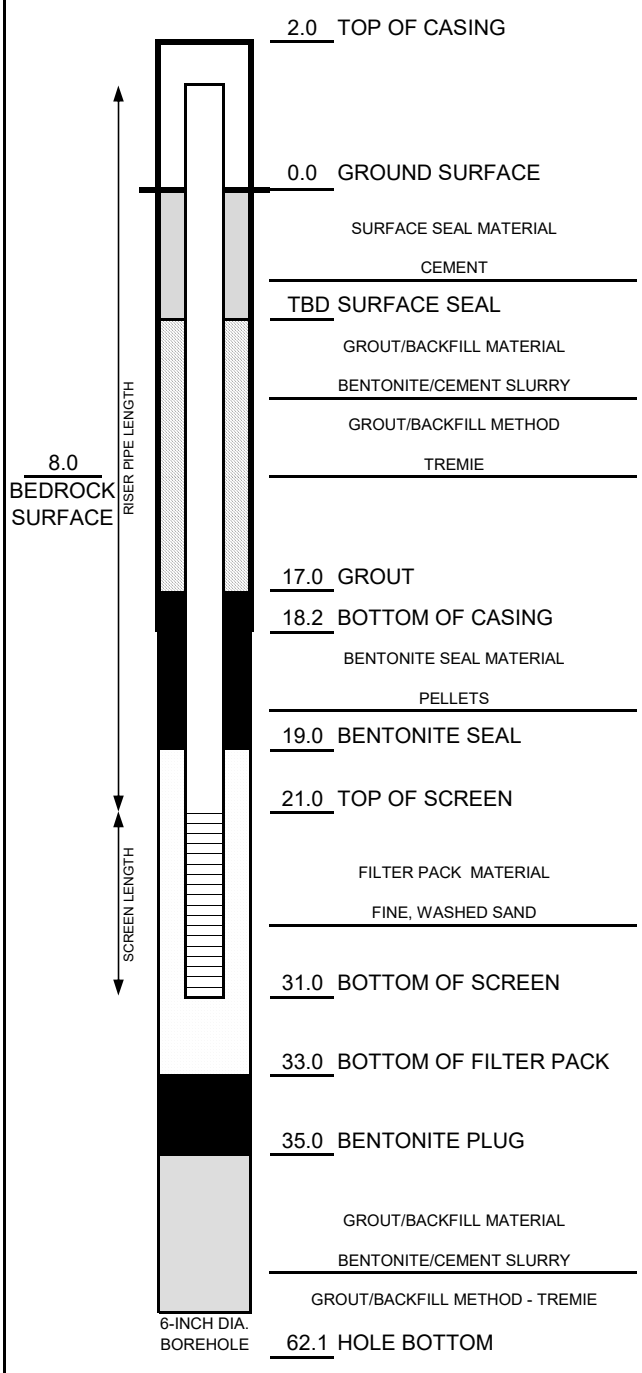
4. THE DEPICTED RECOMMENDED WELL CONSTRUCTION DIAGRAM IS NOT TO SCALE.

FIGURE 5

RECOMMENDED WELL CONSTRUCTION DIAGRAM (ABOVE-GRADE)

PROJ. NAME:	NYSDEC Dutchess County Fire Training Center (Site No. 314128)		WELL ID:	**BMW-105**
PROJ. NO:	453208	DATE INSTALLED: TBD	INSTALLED BY: AARCO	CHECKED BY: J. King

DEPTH /HEIGHT RELATIVE TO GROUND SURFACE (FEET)



RECOMMENDED RISER AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SCREEN TYPE: FILTER SAND PRE-PACKED 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

OPEN BEDROCK BOREHOLE DIAMETER: 6 IN. FROM -18.2 TO -62.1 FT.

OUTER CARBON STEEL CASING DIAMETER: 6 IN. FROM +2.0 TO -18.2 FT.

RELEVANT PACKER TEST RESULTS

PACKER TEST DEPTH (FEET BGS)	DATE COMPLETED	CONCENTRATION (NG/L)		
		PFOA	PFOS	TDP
18 - 28	12/3/2024	4.2	1.2	27.62
36 - 41	12/4/2024	4.1	1.0	26.21

NOTES

FEET BGS - FEET BELOW GROUND SURFACE
ND - NOT DETECTED AT THE LABORATORY REPORTING LIMIT
NG/L - NANOGRAMS PER LITER
PFOA - PERFUOROCTANOIC ACID
PFOS - PERFLUOROOCTANESULFONIC ACID
TDP - TOTAL DETECTED PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

FIGURE NOTES

1. PACKER TEST INTERVALS WERE SELECTED BASED ON THE BOREHOLE GEOPHYSICAL SURVEY, COMPLETED IN OCTOBER 2024 BY HAGER-RICHTER GEOSCIENCE, INC.

2. FOR CLARITY, ONLY PFOA, PFOS, AND TDP SAMPLE CONCENTRATION DATA IS SHOWN. IN ADDITION, DUPLICATE DATA AND LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED. REFER TO THE SUMMARY TABLE FOR ADDITIONAL DETECTED ANALYTES, DUPLICATE ANALYTICAL DATA, AND LABORATORY QUALIFIERS.

3. ALL ANALYTICAL DATA PRESENTED ON THIS FIGURE IS PENDING VALIDATION AND CONSIDERED PRELIMINARY.

4. THE DEPICTED RECOMMENDED WELL CONSTRUCTION DIAGRAM IS NOT TO SCALE.

FIGURE 6

ATTACHMENT 1

BOREHOLE GEOPHYSICAL LOGGING – DATA REPORT

HAGER-RICHTER GEOSCIENCE

JANUARY 2025

HRGS
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GEOPHYSICS FOR THE ENGINEERING & ENVIRONMENTAL COMMUNIITIES

26 Kendall Pond Road, Derry NH 03038 (603.893.9944)
846 Main Street, Fords, NJ 08863 (732.661.0555)

www.hager-richter.com

BOREHOLE GEOPHYSICAL LOGGING – DATA REPORT
BOREHOLES BMW-101, BMW-102, BMW-103, BMW-104, BMW-105
DUTCHESS COUNTY FIRE TRAINING CENTER
POUGHKEEPSIE, NEW YORK

Prepared for:

TRC Engineers, Inc.
3 Corporate Drive, Suite 202
Clifton Park, New York 12065

Prepared by:

Hager-Richter Geoscience, dba HR Geological Services in New York
26 Kendall Pond Road
Derry, New Hampshire 03038

846 Main Street
Fords, New Jersey 08863

Robert L. Garfield

Robert L. Garfield, P.G. (NY 000041)
Owner / Principal Borehole Geophysicist



File 24RG26
January 2025

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HRGS

Tadpole	Structure Category (Symbol Color)	Description
	Fracture Rank 1 (Light Blue)	Minor Fracture - not distinct and may not be continuous around the borehole
	Fracture Rank 2 (Blue)	Intermediate Fracture - distinct and continuous around the borehole with little or no apparent aperture
	Fracture Rank 3 (Red)	Major Fracture - distinct and continuous around the borehole with apparent aperture

Figure 1. Key to bedrock structure categories.

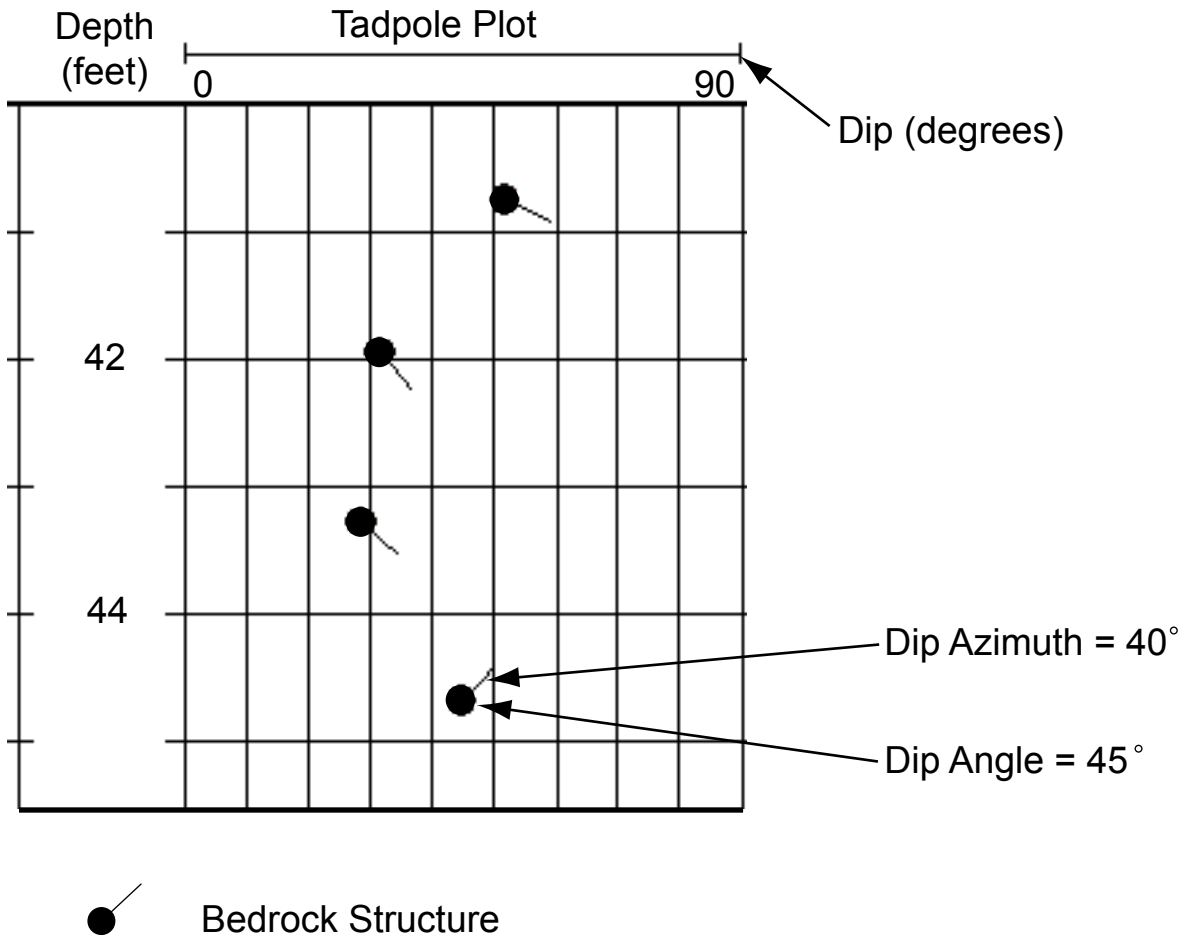


Figure 2. Tadpole plot explanation. The orientation of the bedrock structures is graphically displayed by a tadpole consisting of a circle, the head, and a line, the tail. The position of the head, left to right on the tadpole plot, gives the dip angle of the structure. The left side of the track indicates a dip angle of 0°, and the right side of the track indicates a dip angle of 90° from horizontal. The orientation of the tail gives the dip azimuth of the structure and can be read like a compass. The tail pointing directly up is 0°, north.

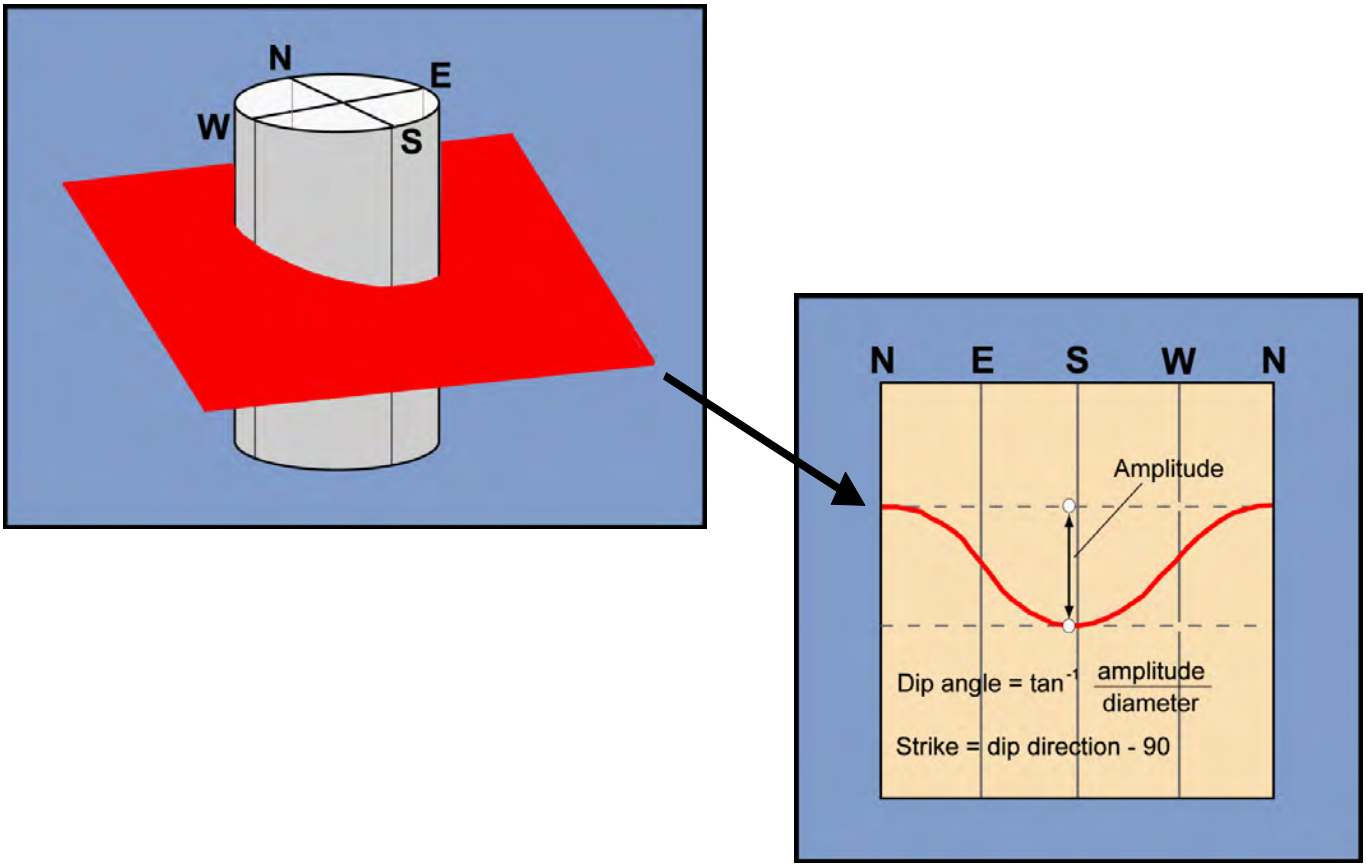


Figure 3. Televiewer explanation. The image on the left depicts a planar structure in red, such as a fracture or bedding plane, intersected by a borehole. The image on the right depicts the same structure unwrapped as it would be displayed in an optical televiewer (OTV) or acoustic televiewer (ATV) log.

Figure modified from: Garfield, R.L., Day-Lewis, F.D., Gray, M.B., Johnson, C.D., Williams, J.H. and Day-Lewis, A.D.F., 2003, Fractured-Rock Aquifer Characterization within a Regional Geologic Context: Results from the Bucknell University Hydrogeophysics Test Site, GSA Northeastern Section, 38th Annual Meeting, Paper No. 25-19.

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BMW-101 - BOREHOLE GEOPHYSICAL LOGS

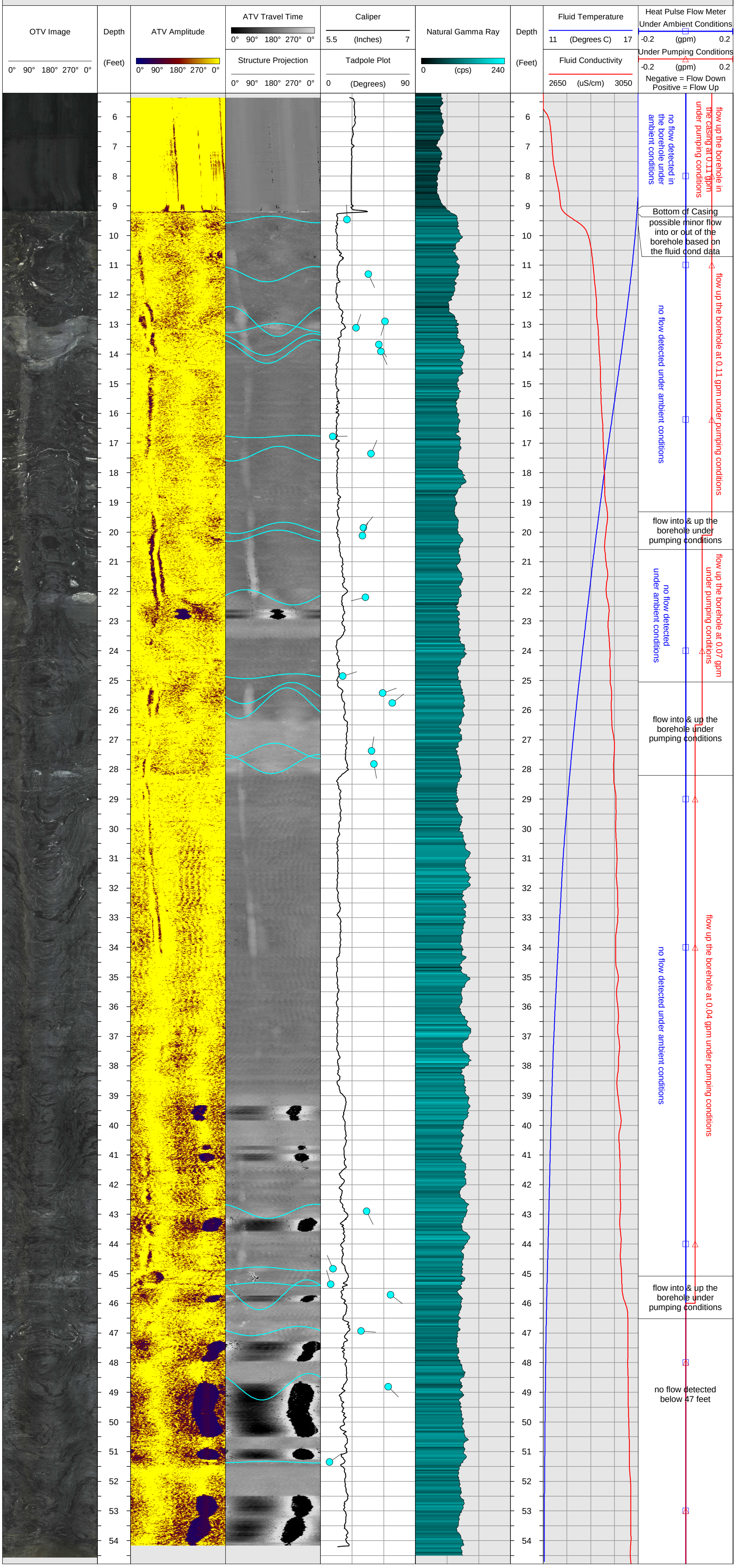
DATE(S) LOGGED: October 8, 2024

CLIENT:	TRC Engineers Inc.	HRGS FILE:	24RG26
PROJECT:	Dutchess County Fire Training Center	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	Poughkeepsie, New York	TOP OF CASING:	0.0 Feet Above the Ground Surface
LOGGING GEOPHYSICIST(S):	Mikko Aarnio & Mishak Boshoff	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
PROJECT REP(S) ON-SITE:	Andrew Fishman	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield, P.G. & Nick DeCristofaro	WATER LEVEL DEPTH:	5.3 Feet

STRUCTURE LEGEND

Fracture Rank 1

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BMW-102 - BOREHOLE GEOPHYSICAL LOGS

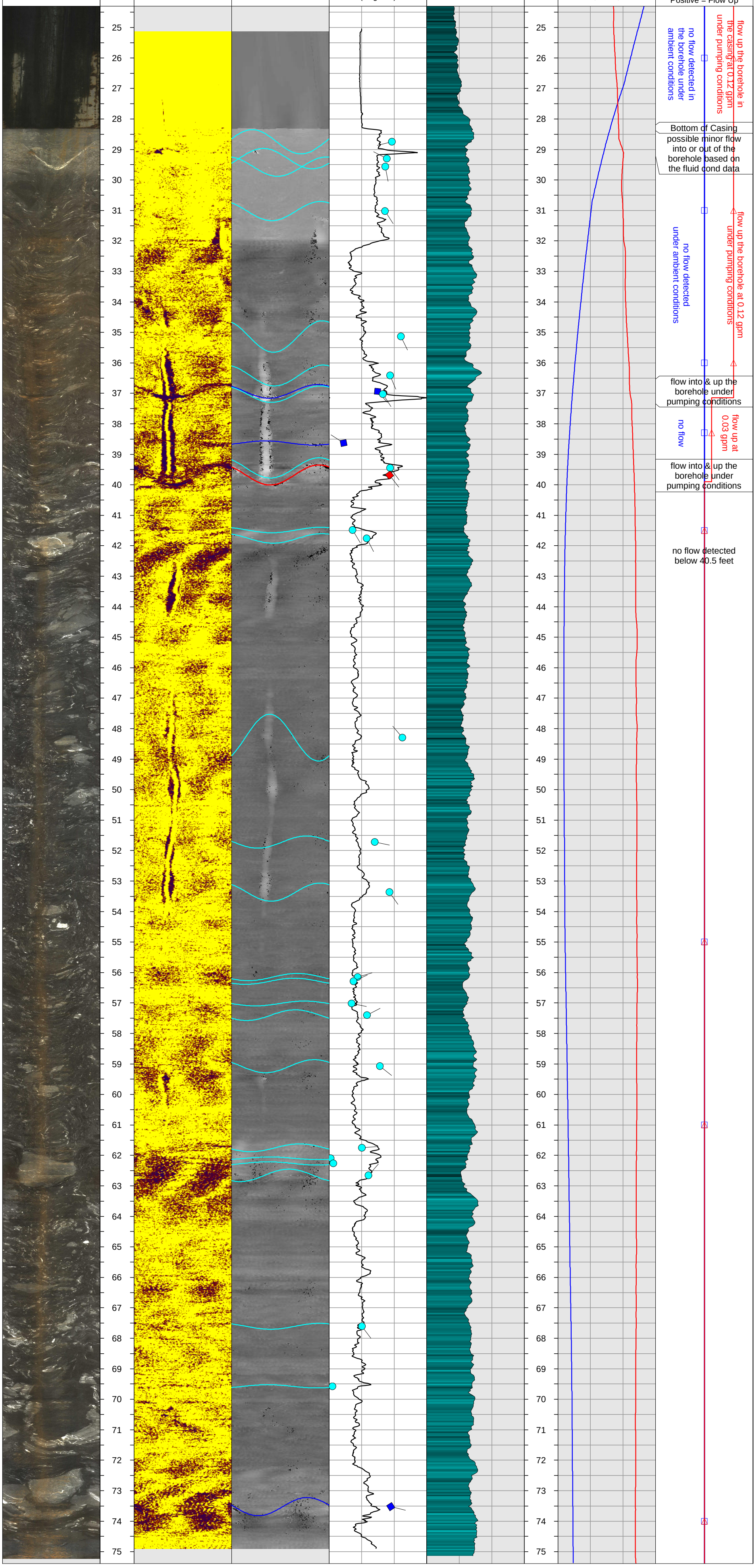
DATE(S) LOGGED: October 8, 2024

CLIENT:	TRC Engineers Inc.	HRGS FILE:	24RG26
PROJECT:	Dutchess County Fire Training Center	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	Poughkeepsie, New York	TOP OF CASING:	3.1 Feet Above the Ground Surface
LOGGING GEOPHYSICIST(S):	Mikko Aarnio & Mishak Boshoff	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
PROJECT REP(S) ON-SITE:	Andrew Fishman	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield, P.G. & Nick DeCristofaro	WATER LEVEL DEPTH:	7.9 Feet

STRUCTURE LEGEND

Fracture Rank 1 Fracture Rank 2 Fracture Rank 3

BMW-102 - Borehole Geophysical Logs



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BMW-103 - BOREHOLE GEOPHYSICAL LOGS

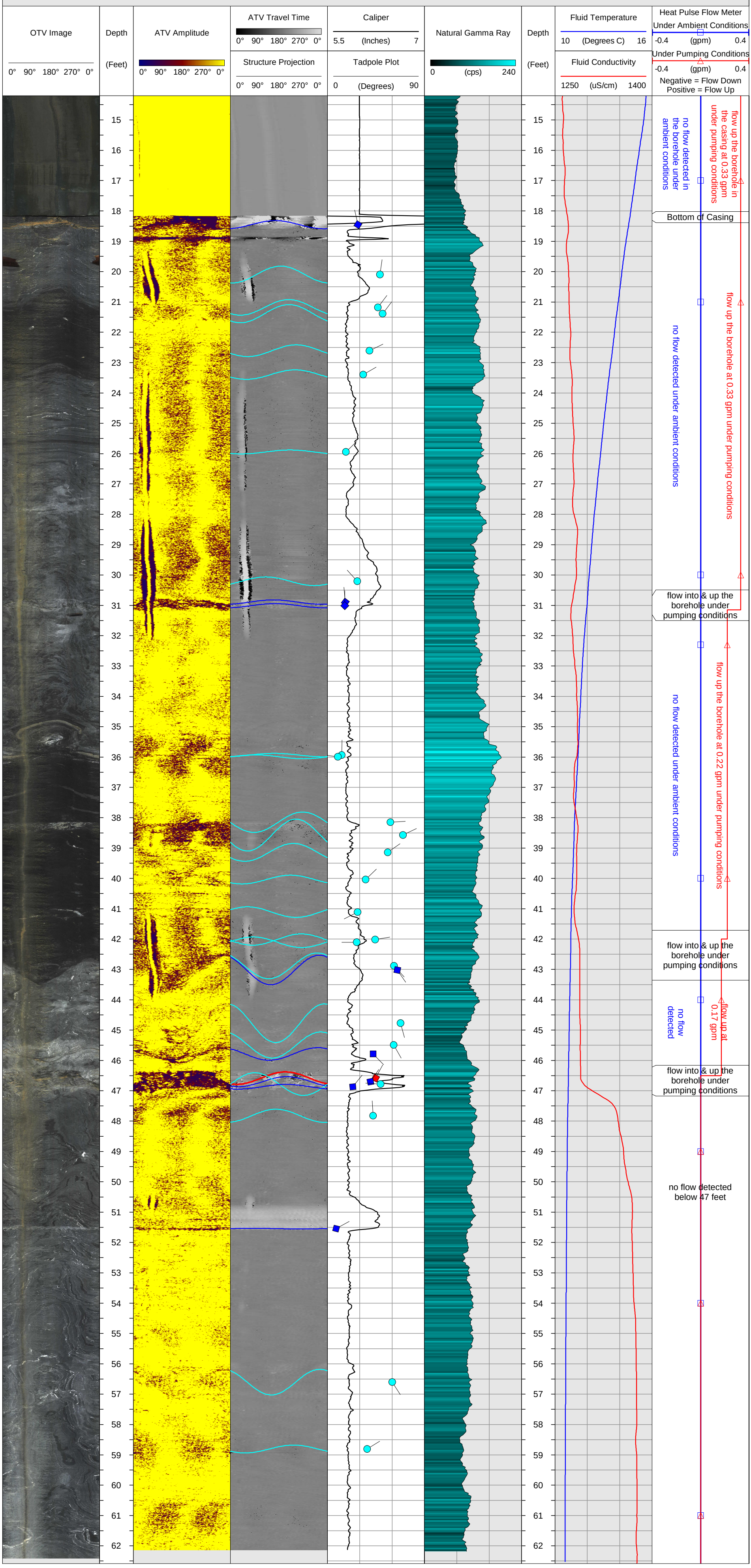
DATE(S) LOGGED: October 8 & 9, 2024

CLIENT:	TRC Engineers Inc.	HRGS FILE:	24RG26
PROJECT:	Dutchess County Fire Training Center	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	Poughkeepsie, New York	TOP OF CASING:	2.2 Feet Above the Ground Surface
LOGGING GEOPHYSICIST(S):	Mikko Aarnio & Mishak Boshoff	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
PROJECT REP(S) ON-SITE:	Andrew Fishman	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield, P.G. & Nick DeCristofaro	WATER LEVEL DEPTH:	10.8 Feet

STRUCTURE LEGEND

Fracture Rank 1 Fracture Rank 2 Fracture Rank 3

BMW-103 - Borehole Geophysical Logs



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BMW-104 - BOREHOLE GEOPHYSICAL LOGS

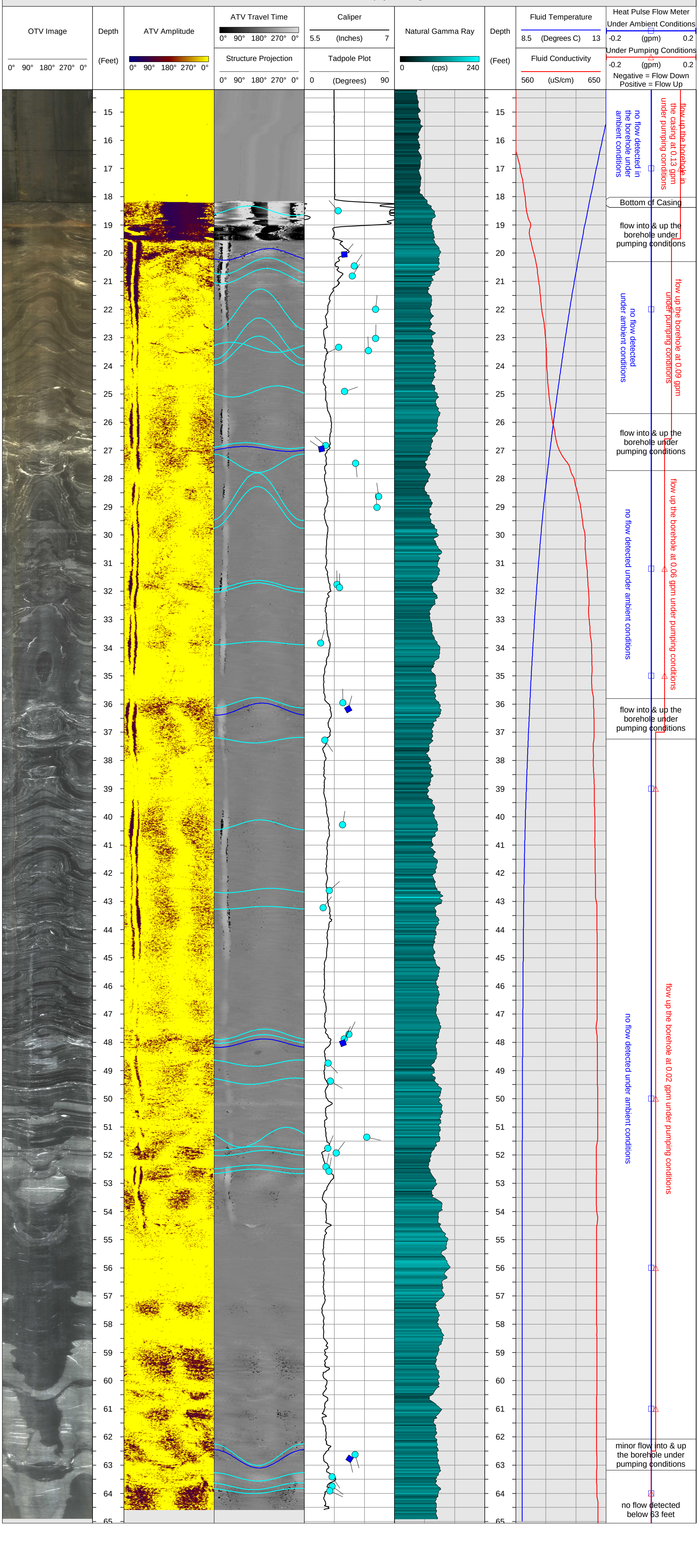
DATE(S) LOGGED: October 8 & 9, 2024

CLIENT:	TRC Engineers Inc.	HRGS FILE:	24RG26
PROJECT:	Dutchess County Fire Training Center	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	Poughkeepsie, New York	TOP OF CASING:	2.3 Feet Above the Ground Surface
LOGGING GEOPHYSICIST(S):	Mikko Aarnio & Mishak Boshoff	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
PROJECT REP(S) ON-SITE:	Andrew Fishman	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield, P.G. & Nick DeCristofaro	WATER LEVEL DEPTH:	6.8 Feet

STRUCTURE LEGEND

Fracture Rank 1 Fracture Rank 2

BMW-104 - Borehole Geophysical Logs



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BMW-105 - BOREHOLE GEOPHYSICAL LOGS

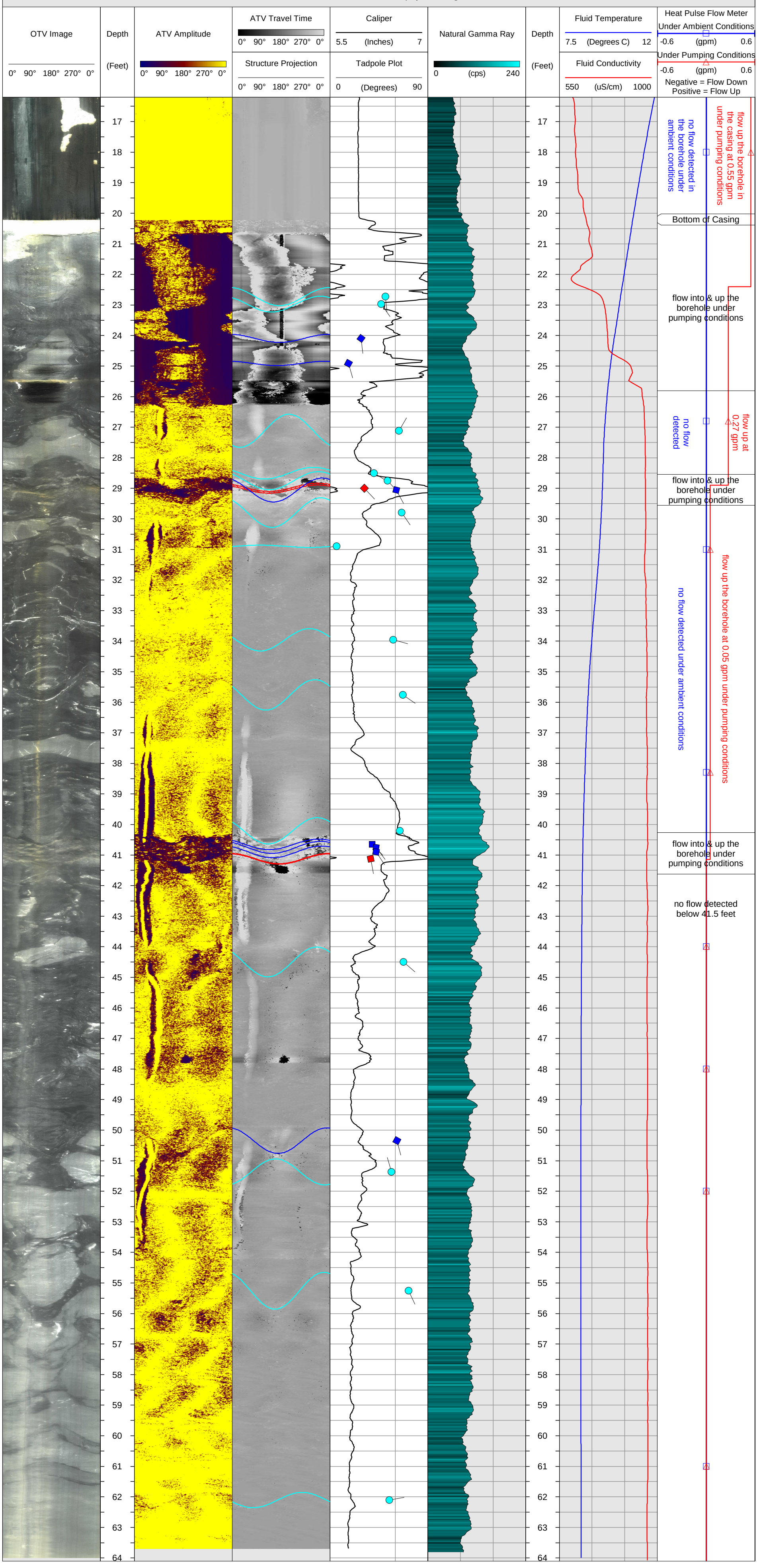
DATE(S) LOGGED: October 8 & 9, 2024

CLIENT:	TRC Engineers Inc.	HRGS FILE:	24RG26
PROJECT:	Dutchess County Fire Training Center	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	Poughkeepsie, New York	TOP OF CASING:	2.0 Feet Above the Ground Surface
LOGGING GEOPHYSICIST(S):	Mikko Aarnio & Mishak Boshoff	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
PROJECT REP(S) ON-SITE:	Andrew Fishman	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield, P.G. & Nick DeCristofaro	WATER LEVEL DEPTH:	5.5 Feet

STRUCTURE LEGEND

Fracture Rank 1 Fracture Rank 2 Fracture Rank 3

BMW-105 - Borehole Geophysical Logs



HRGS

HAGER-RICHTER GEOSCIENCE

BMW-101 - Summary of Borehole Flow Under Ambient & Pumping Conditions	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8, 2024
LOG DATUM	Top of the 6-Inch Steel Casing

BMW-101 - Summary of Borehole Flow Under Ambient & Pumping Conditions

Depth (Feet)	Comments (flow was not detected in the borehole under ambient conditions)
0.0	Top of the 6-Inch Steel Casing
0.0	Ground Surface
5.3	Ambient Water Level
7.0 - 8.0	Location of Pump for HPFM Under Pumping Conditions
8.0 - 9.2	flow up the borehole in the casing at 0.11 gpm under pumping conditions
9.2	Bottom of the 6-Inch Steel Casing
9.2 - 9.7	possible minor flow into or out of the borehole based on the fluid cond data
9.7 - 19.3	flow up the borehole at 0.11 gpm under pumping conditions
19.3 - 20.6	flow into & up the borehole under pumping conditions
20.6 - 25.1	flow up the borehole at 0.07 gpm under pumping conditions
25.1 - 28.2	flow into & up the borehole under pumping conditions
28.2 - 45.1	flow up the borehole at 0.04 gpm under pumping conditions
45.1 - 46.5	flow into & up the borehole under pumping conditions
46.5 - 54.7	no flow detected under pumping conditions
54.7	Bottom of the Borehole (based on the geophysical logging)

HRGS

HAGER-RICHTER GEOSCIENCE

BMW-102 - Summary of Borehole Flow Under Ambient & Pumping Conditions	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8, 2024
LOG DATUM	Top of the 6-Inch Steel Casing

BMW-102 - Summary of Borehole Flow Under Ambient & Pumping Conditions

Depth (Feet)	Comments (flow was not detected in the borehole under ambient conditions)
0.0	Top of the 6-Inch Steel Casing
3.1	Ground Surface
7.9	Ambient Water Level
13.0 - 14.0	Location of Pump for HPFM Under Pumping Conditions
14.0 - 28.3	flow up the borehole in the casing at 0.12 gpm under pumping conditions
28.3	Bottom of the 6-Inch Steel Casing
28.3 - 29.2	possible minor flow into or out of the borehole based on the fluid cond data
29.2 - 36.5	flow up the borehole at 0.12 gpm under pumping conditions
36.5 - 37.3	flow into & up the borehole under pumping conditions
37.3 - 39.2	flow up the borehole at 0.03 gpm under pumping conditions
39.2 - 40.2	flow into & up the borehole under pumping conditions
40.2 - 75.3	no flow detected under pumping conditions
75.3	Bottom of the Borehole (based on the geophysical logging)

HRGS

HAGER-RICHTER GEOSCIENCE

BMW-103 - Summary of Borehole Flow Under Ambient & Pumping Conditions	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8 & 9, 2024
LOG DATUM	Top of the 6-Inch Steel Casing

BMW-103 - Summary of Borehole Flow Under Ambient & Pumping Conditions

Depth (Feet)	Comments (flow was not detected in the borehole under ambient conditions)
0.0	Top of the 6-Inch Steel Casing
2.2	Ground Surface
10.8	Ambient Water Level
15.0 - 16.0	Location of Pump for HPFM Under Pumping Conditions
16.0 - 18.2	flow up the borehole in the casing at 0.33 gpm under pumping conditions
18.2	Bottom of the 6-Inch Steel Casing
18.2 - 30.7	flow up the borehole at 0.33 gpm under pumping conditions
30.7 - 31.3	flow into & up the borehole under pumping conditions
31.3 - 41.7	flow up the borehole at 0.22 gpm under pumping conditions
41.7 - 43.4	flow into & up the borehole under pumping conditions
43.4 - 46.2	flow up the borehole at 0.17 gpm under pumping conditions
46.2 - 47.1	flow into & up the borehole under pumping conditions
47.1 - 62.6	no flow detected under pumping conditions
62.6	Bottom of the Borehole (based on the geophysical logging)

HRGS

HAGER-RICHTER GEOSCIENCE

BMW-104 - Summary of Borehole Flow Under Ambient & Pumping Conditions	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8 & 9, 2024
LOG DATUM	Top of the 6-Inch Steel Casing

BMW-104 - Summary of Borehole Flow Under Ambient & Pumping Conditions

Depth (Feet)	Comments (flow was not detected in the borehole under ambient conditions)
0.0	Top of the 6-Inch Steel Casing
2.3	Ground Surface
6.8	Ambient Water Level
11.0 - 12.0	Location of Pump for HPFM Under Pumping Conditions
12.0 - 18.2	flow up the borehole in the casing at 0.13 gpm under pumping conditions
18.2	Bottom of the 6-Inch Steel Casing
18.2 - 20.3	flow into & up the borehole under pumping conditions
20.3 - 25.7	flow up the borehole at 0.09 gpm under pumping conditions
25.7 - 27.7	flow into & up the borehole under pumping conditions
27.7 - 35.8	flow up the borehole at 0.06 gpm under pumping conditions
35.8 - 37.2	flow into & up the borehole under pumping conditions
37.2 - 62.1	flow up the borehole at 0.02 gpm under pumping conditions
62.1 - 63.2	minor flow into & up the borehole under pumping conditions
63.2 - 65.0	no flow detected under pumping conditions
65.0	Bottom of the Borehole (based on the geophysical logging)

HRGS

HAGER-RICHTER GEOSCIENCE

BMW-105 - Summary of Borehole Flow Under Ambient & Pumping Conditions	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8 & 9, 2024
LOG DATUM	Top of the 6-Inch Steel Casing

BMW-105 - Summary of Borehole Flow Under Ambient & Pumping Conditions

Depth (Feet)	Comments (flow was not detected in the borehole under ambient conditions)
0.0	Top of the 6-Inch Steel Casing
2.0	Ground Surface
5.5	Ambient Water Level
9.0 - 10.0	Location of Pump for HPFM Under Pumping Conditions
10.0 - 20.2	flow up the borehole in the casing at 0.55 gpm under pumping conditions
20.2	Bottom of the 6-Inch Steel Casing
20.2 - 25.8	flow into & up the borehole under pumping conditions
25.8 - 28.5	flow up the borehole at 0.27 gpm under pumping conditions
28.5 - 29.6	flow into & up the borehole under pumping conditions
29.6 - 40.3	flow up the borehole at 0.05 gpm under pumping conditions
40.3 - 41.6	flow into & up the borehole under pumping conditions
41.6 - 64.1	no flow detected under pumping conditions
64.1	Bottom of the Borehole (based on the geophysical logging)

HRGS
dba HR Geological Services in New York

Derry, NH (603.893.9944)
Fords, NJ (732.661.0555)
www.hager-richter.com

ALL BOREHOLES - BEDROCK FRACTURE STATISTICS PLOTS

DATE(S) LOGGED: August 2024

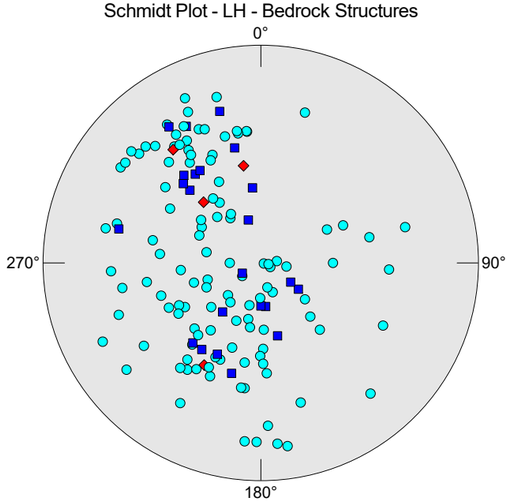
CLIENT: TRC Engineers Inc.
PROJECT: Dutchess County Fire Training Center
LOCATION: Poughkeepsie, New York

HRGS FILE: 24RG26
ORIENTATION REFERENCE: True North
MAGNETIC DECLINATION: 13° West

STRUCTURE LEGEND

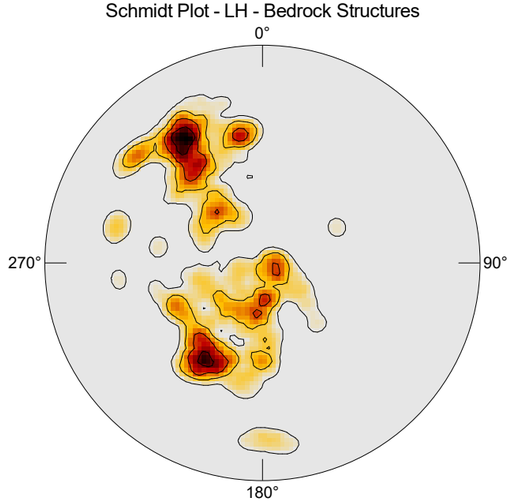
Fracture Rank 1 ◆ Fracture Rank 2 ■ Fracture Rank 3

Stereogram - Lower Hemisphere of Bedrock Fractures



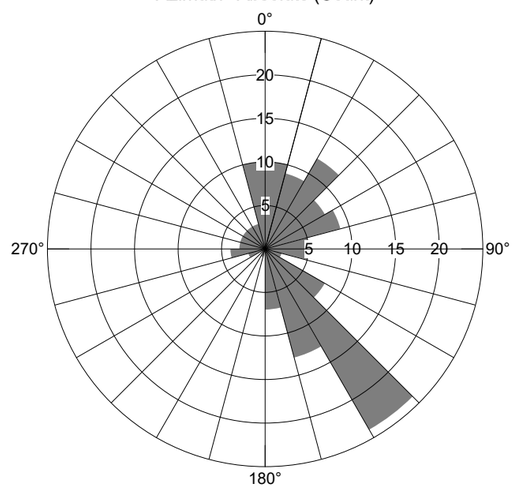
	Counts	Dip[deg]	Azi[deg]
Mean	144	41.10	80.11
○	117	42.04	74.19
■	23	36.11	96.43
◆	4	42.33	129.60

Contoured Stereogram - Lower Hemisphere of Bedrock Fractures



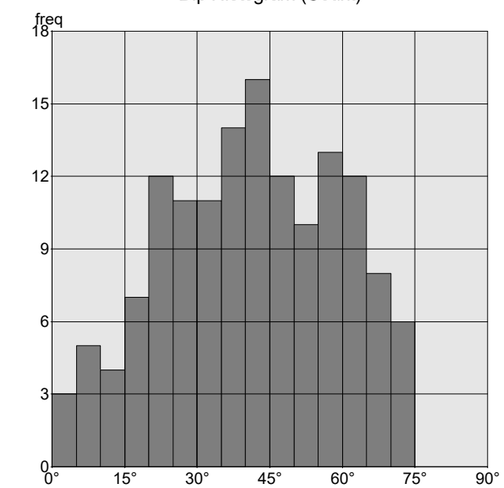
	Counts	Dip[deg]	Azi[deg]
Mean	144	41.10	80.11
○	117	42.04	74.19
■	23	36.11	96.43
◆	4	42.33	129.60

Dip Azimuth Rose Diagram of Bedrock Fractures



Components:	Azimuth
Counts:	144.00
Mean (2D):	80.11
Std.Dev.:	84.85
Min:	0.43
Max:	359.53

Dip Angle Histogram of Bedrock Fractures



Counts:	144.00
Mean (2D):	41.10
Std.Dev.:	17.94
Min:	1.35
Max:	74.16

HRGS

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BMW-101 - TABLE OF BEDROCK FRACTURES	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8, 2024
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

BMW-101 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Fracture Category
9.5	357	25	Fracture Rank 1
11.3	156	45	Fracture Rank 1
12.9	196	61	Fracture Rank 1
13.1	19	34	Fracture Rank 1
13.7	149	56	Fracture Rank 1
13.9	155	57	Fracture Rank 1
16.8	89	12	Fracture Rank 1
17.4	24	48	Fracture Rank 1
19.9	40	41	Fracture Rank 1
20.1	23	40	Fracture Rank 1
22.2	257	43	Fracture Rank 1
24.9	72	21	Fracture Rank 1
25.4	70	59	Fracture Rank 1
25.8	52	68	Fracture Rank 1
27.4	9	48	Fracture Rank 1
27.8	170	51	Fracture Rank 1
42.9	154	44	Fracture Rank 1
44.8	337	12	Fracture Rank 1
45.4	344	10	Fracture Rank 1
45.7	126	67	Fracture Rank 1
46.9	95	38	Fracture Rank 1
48.8	135	64	Fracture Rank 1
51.4	55	9	Fracture Rank 1

HRGS

HAGER-RICHTER GEOSCIENCE

BMW-102 - TABLE OF BEDROCK FRACTURES	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8, 2024
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

BMW-102 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Fracture Category
28.8	256	58	Fracture Rank 1
29.3	297	53	Fracture Rank 1
29.6	170	52	Fracture Rank 1
31.0	147	52	Fracture Rank 1
35.1	154	66	Fracture Rank 1
36.4	157	56	Fracture Rank 1
36.9	139	45	Fracture Rank 2
37.0	147	49	Fracture Rank 1
38.6	303	13	Fracture Rank 2
39.4	143	56	Fracture Rank 1
39.7	142	56	Fracture Rank 3
41.5	149	22	Fracture Rank 1
41.8	153	35	Fracture Rank 1
48.3	320	67	Fracture Rank 1
51.7	102	42	Fracture Rank 1
53.4	146	56	Fracture Rank 1
56.2	73	26	Fracture Rank 1
56.3	66	22	Fracture Rank 1
57.0	102	21	Fracture Rank 1
57.4	62	35	Fracture Rank 1
59.1	128	47	Fracture Rank 1
61.8	85	30	Fracture Rank 1
62.1	286	1	Fracture Rank 1
62.3	294	4	Fracture Rank 1
62.7	41	36	Fracture Rank 1
67.6	143	30	Fracture Rank 1
69.6	279	3	Fracture Rank 1
73.5	104	57	Fracture Rank 2

HRGS

HAGER-RICHTER GEOSCIENCE

BMW-103 - TABLE OF BEDROCK FRACTURES	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8 & 9, 2024
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

BMW-103 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Fracture Category
18.5	347	28	Fracture Rank 2
20.1	8	49	Fracture Rank 1
21.2	37	47	Fracture Rank 1
21.4	38	51	Fracture Rank 1
22.6	64	39	Fracture Rank 1
23.4	60	33	Fracture Rank 1
25.9	45	17	Fracture Rank 1
30.2	317	28	Fracture Rank 1
30.9	354	17	Fracture Rank 2
31.0	360	16	Fracture Rank 2
35.9	1	13	Fracture Rank 1
36.0	278	10	Fracture Rank 1
38.1	87	58	Fracture Rank 1
38.6	64	70	Fracture Rank 1
39.1	55	56	Fracture Rank 1
40.0	45	35	Fracture Rank 1
41.1	243	28	Fracture Rank 1
42.0	80	44	Fracture Rank 1
42.1	270	27	Fracture Rank 1
42.9	138	62	Fracture Rank 1
43.0	146	65	Fracture Rank 2
44.8	165	68	Fracture Rank 1
45.5	151	61	Fracture Rank 1
45.8	136	42	Fracture Rank 2
46.6	29	45	Fracture Rank 3
46.7	34	40	Fracture Rank 2
46.8	273	49	Fracture Rank 1
46.9	38	23	Fracture Rank 2
47.8	357	42	Fracture Rank 1
51.6	61	8	Fracture Rank 2
56.6	147	60	Fracture Rank 1
58.8	58	37	Fracture Rank 1

HRGS

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BMW-104 - TABLE OF BEDROCK FRACTURES	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8 & 9, 2024
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

BMW-104 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Fracture Category
18.5	319	34	Fracture Rank 1
20.1	41	40	Fracture Rank 2
20.5	34	50	Fracture Rank 1
20.8	31	48	Fracture Rank 1
22.0	5	71	Fracture Rank 1
23.0	1	71	Fracture Rank 1
23.4	245	34	Fracture Rank 1
23.5	357	64	Fracture Rank 1
24.9	72	40	Fracture Rank 1
26.8	309	21	Fracture Rank 1
27.0	305	17	Fracture Rank 2
27.5	174	51	Fracture Rank 1
28.6	352	74	Fracture Rank 1
29.0	355	72	Fracture Rank 1
31.8	358	33	Fracture Rank 1
31.9	0	35	Fracture Rank 1
33.8	15	16	Fracture Rank 1
36.0	359	38	Fracture Rank 1
36.2	15	44	Fracture Rank 2
37.3	145	20	Fracture Rank 1
40.3	9	38	Fracture Rank 1
42.6	48	25	Fracture Rank 1
43.2	37	19	Fracture Rank 1
47.7	26	45	Fracture Rank 1
47.9	26	40	Fracture Rank 1
48.0	26	39	Fracture Rank 2
48.7	136	24	Fracture Rank 1
49.4	121	26	Fracture Rank 1
51.4	103	62	Fracture Rank 1
51.8	23	24	Fracture Rank 1
51.9	37	32	Fracture Rank 1
52.4	13	22	Fracture Rank 1
52.6	10	25	Fracture Rank 1
62.6	164	51	Fracture Rank 1

BMW-104 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Fracture Category
62.8	167	45	Fracture Rank 2
63.4	146	28	Fracture Rank 1
63.8	126	28	Fracture Rank 1
63.9	114	25	Fracture Rank 1

HRGS

HAGER-RICHTER GEOSCIENCE

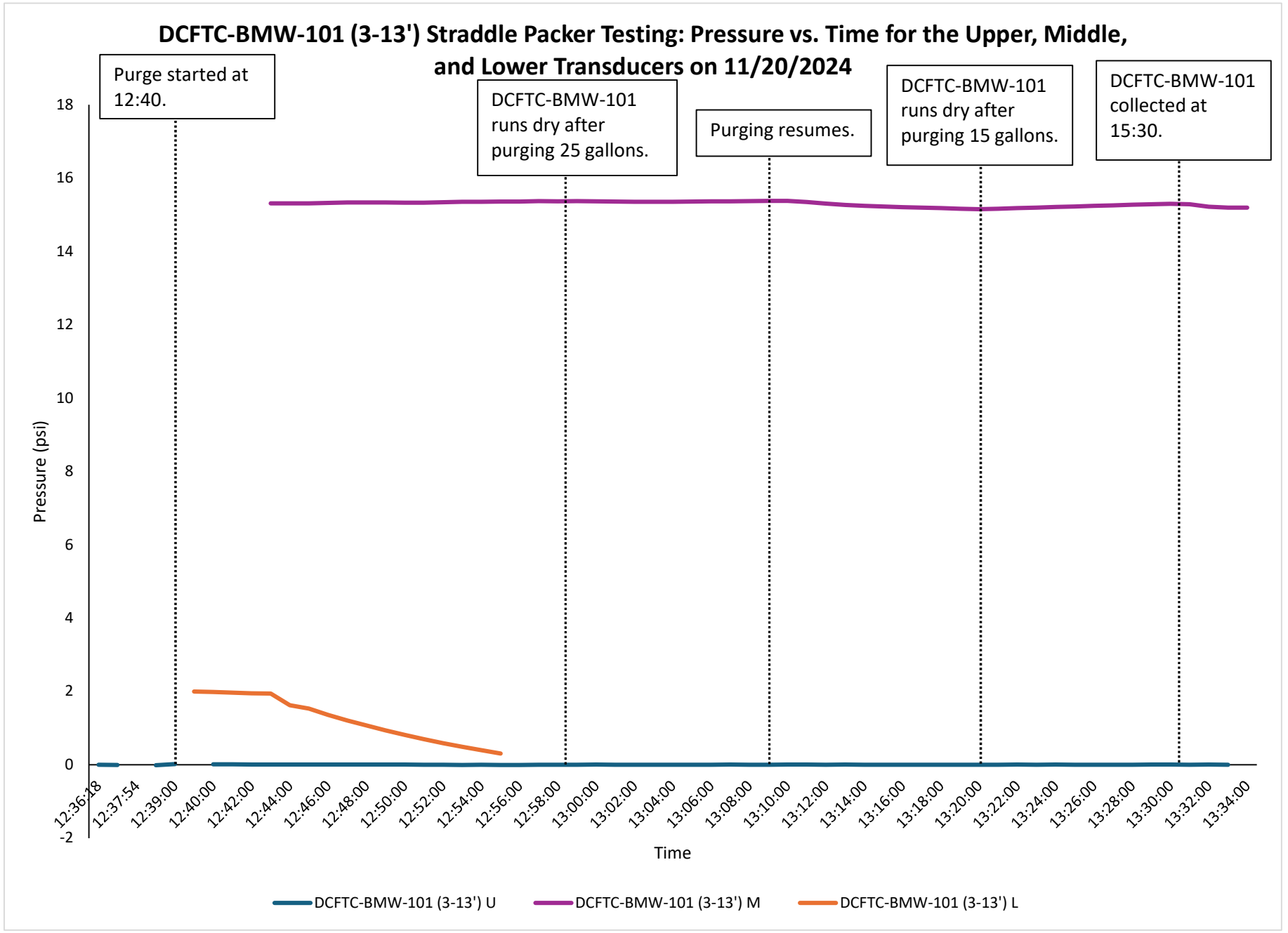
BMW-105 - TABLE OF BEDROCK FRACTURES	
CLIENT	TRC Engineers Inc.
PROJECT	Dutchess County Fire Training Center
LOCATION	Poughkeepsie, New York
HRGS FILE	24RG26
DATE LOGGED	October 8 & 9, 2024
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

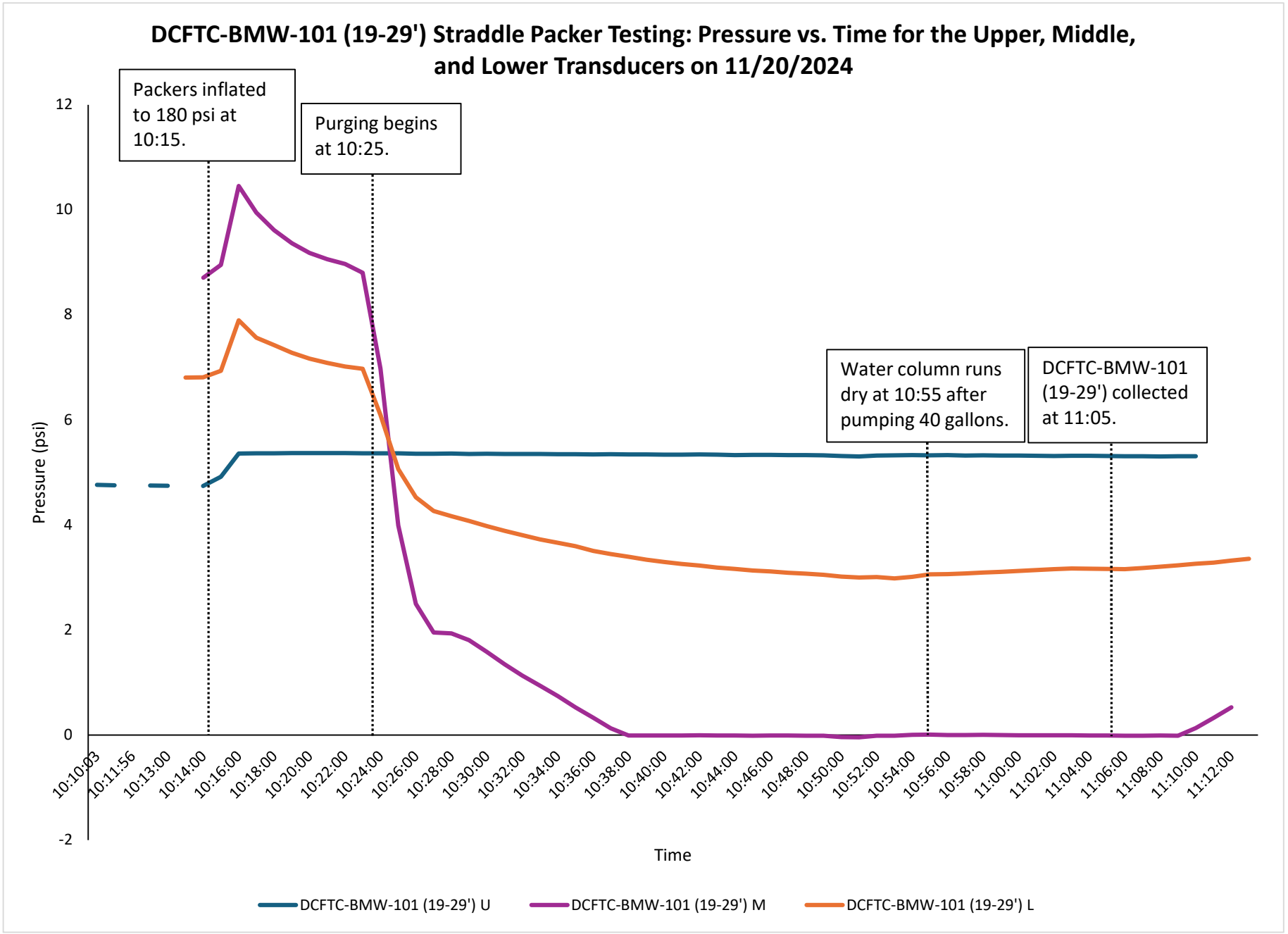
BMW-105 - TABLE OF BEDROCK FRACTURES

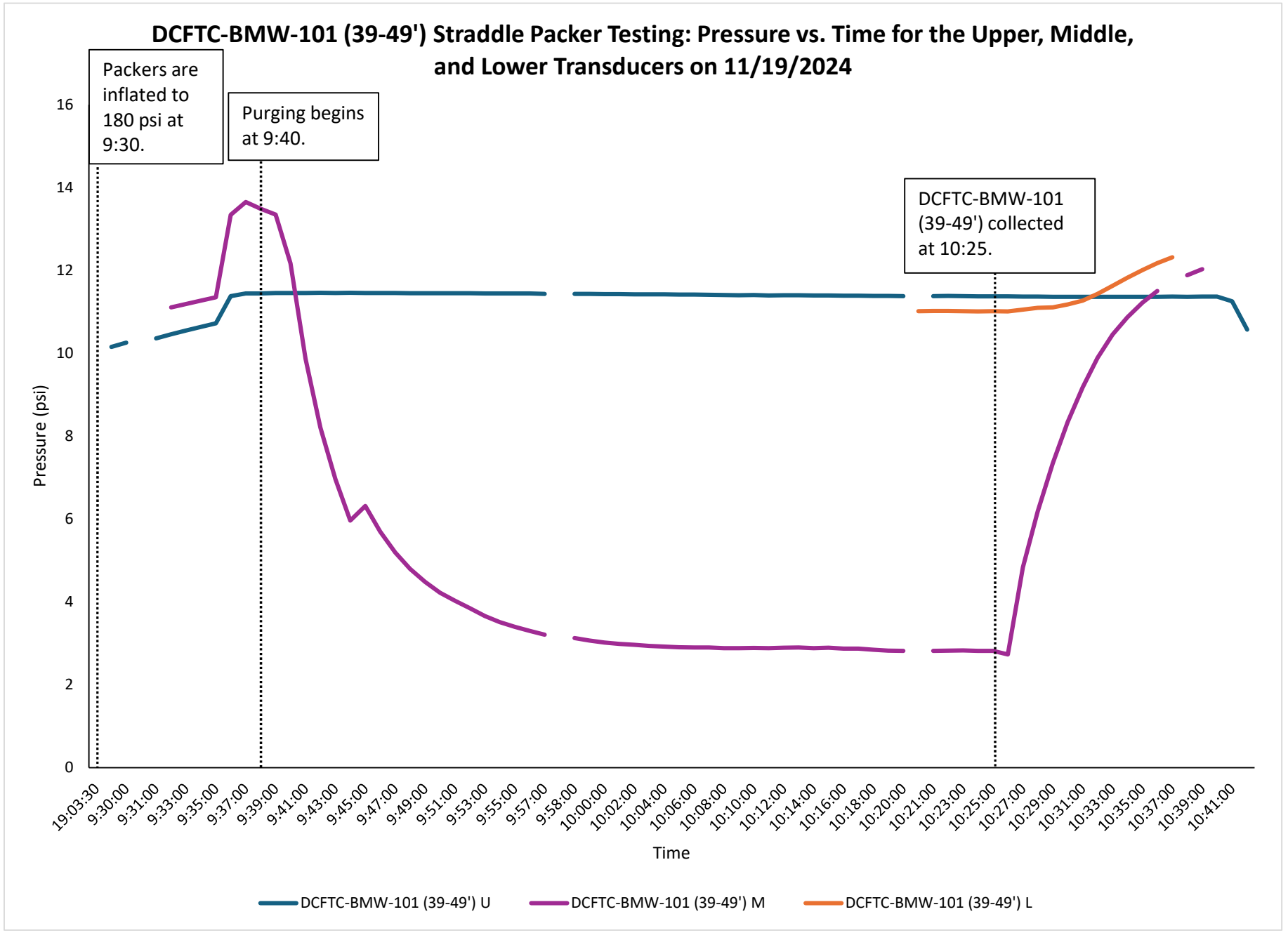
Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Fracture Category
22.7	174	51	Fracture Rank 1
23.0	145	47	Fracture Rank 1
24.1	173	29	Fracture Rank 2
24.9	164	17	Fracture Rank 2
27.1	30	63	Fracture Rank 1
28.5	121	40	Fracture Rank 1
28.8	138	53	Fracture Rank 1
29.0	137	32	Fracture Rank 3
29.1	151	61	Fracture Rank 2
29.8	146	66	Fracture Rank 1
30.9	264	6	Fracture Rank 1
34.0	105	58	Fracture Rank 1
35.8	124	67	Fracture Rank 1
40.2	132	64	Fracture Rank 1
40.7	136	39	Fracture Rank 2
40.8	144	42	Fracture Rank 2
40.9	147	42	Fracture Rank 2
41.1	170	37	Fracture Rank 3
44.5	131	68	Fracture Rank 1
50.4	165	61	Fracture Rank 2
51.4	344	56	Fracture Rank 1
55.3	155	72	Fracture Rank 1
62.1	80	55	Fracture Rank 1

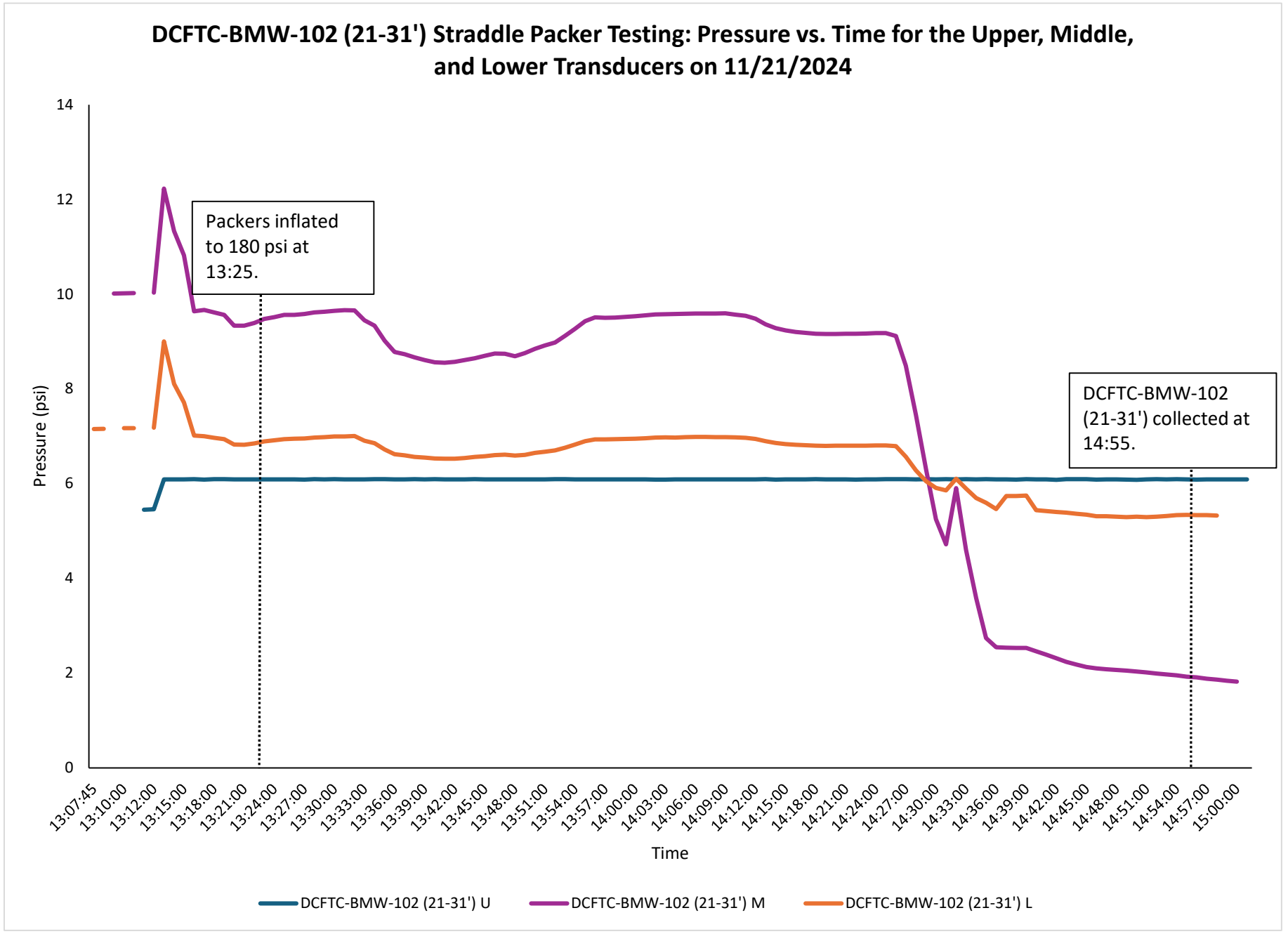
Attachment 6

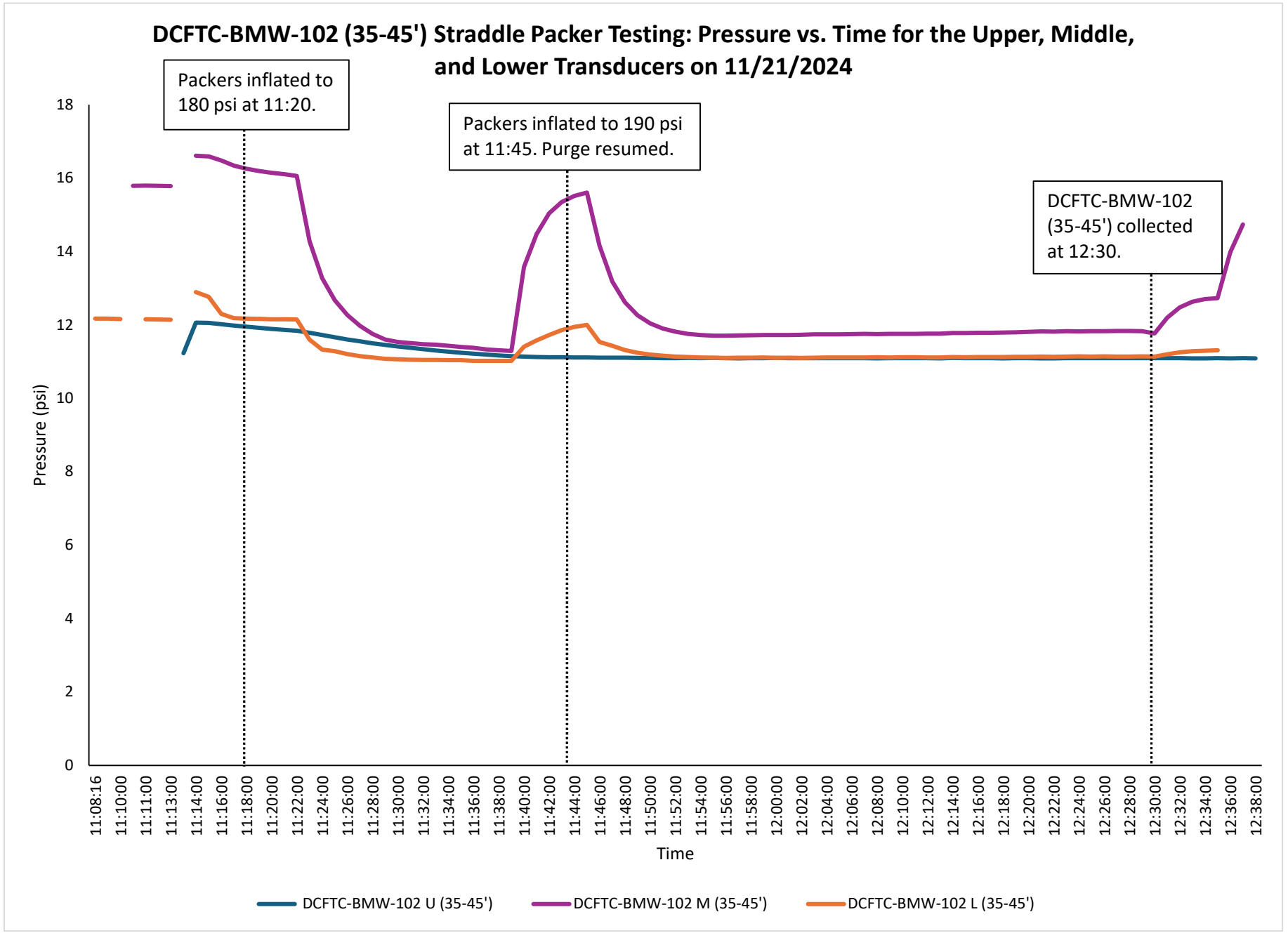
Packer Test Logs

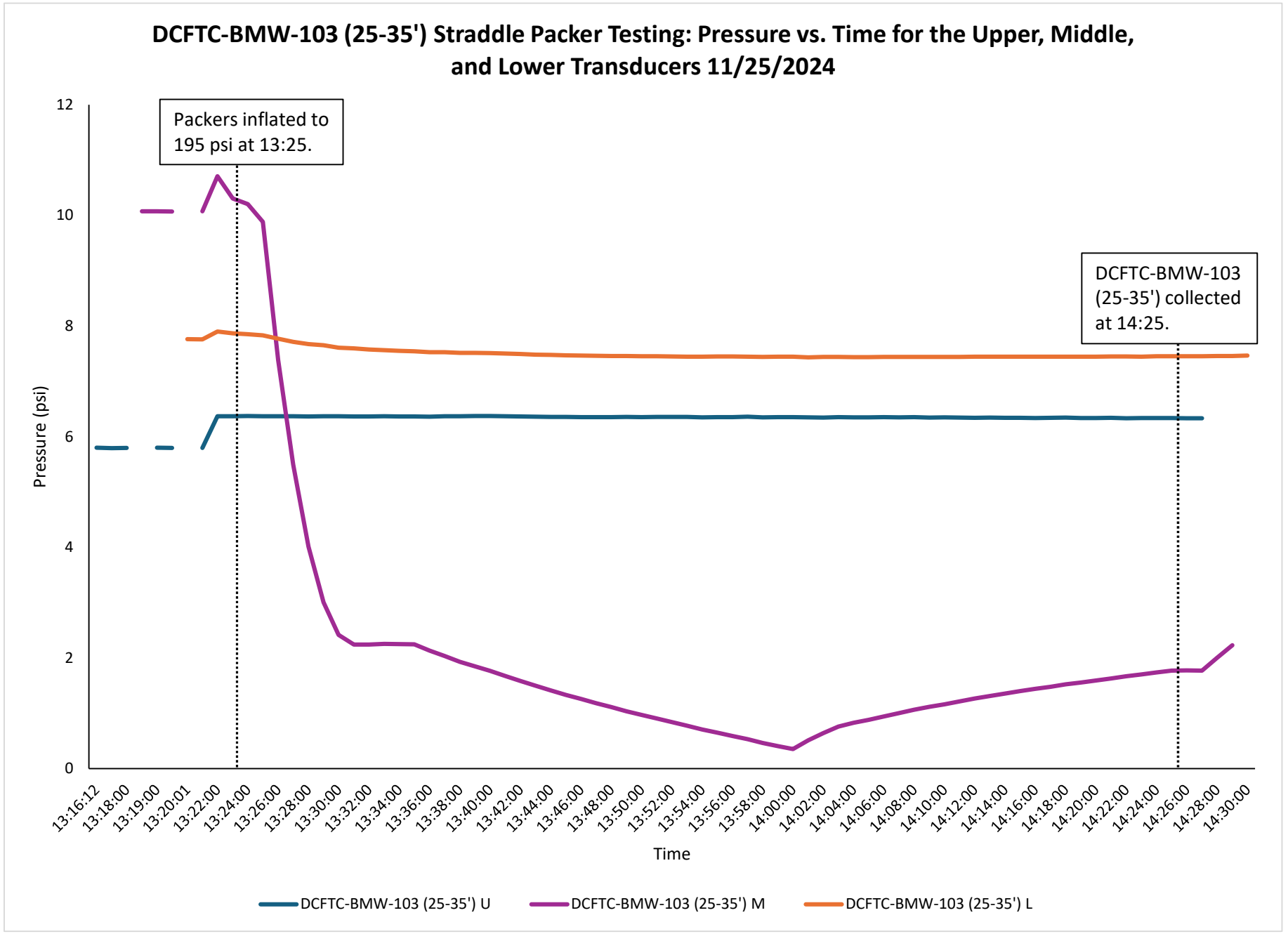

DCFTC-BMW-101 (3-13') Straddle Packer Testing: Pressure vs. Time for the Upper, Middle, and Lower Transducers on 11/20/2024
Purge started at 12:40.
DCFTC-BMW-101 runs dry after purging 25 gallons.
Purging resumes.
DCFTC-BMW-101 runs dry after purging 15 gallons.
DCFTC-BMW-101 collected at 15:30.
Pressure (psi)
18
16
14
12
10
8
6
4
2
0
-2
12:36:18
12:37:54
12:39:00
12:40:00
12:42:00
12:44:00
12:46:00
12:48:00
12:50:00
12:52:00
12:54:00
12:56:00
12:58:00
13:00:00
13:02:00
13:04:00
13:06:00
13:08:00
13:10:00
13:12:00
13:14:00
13:16:00
13:18:00
13:20:00
13:22:00
13:24:00
13:26:00
13:28:00
13:30:00
13:32:00
13:34:00
Time
DCFTC-BMW-101 (3-13') U
DCFTC-BMW-101 (3-13') M
DCFTC-BMW-101 (3-13') L

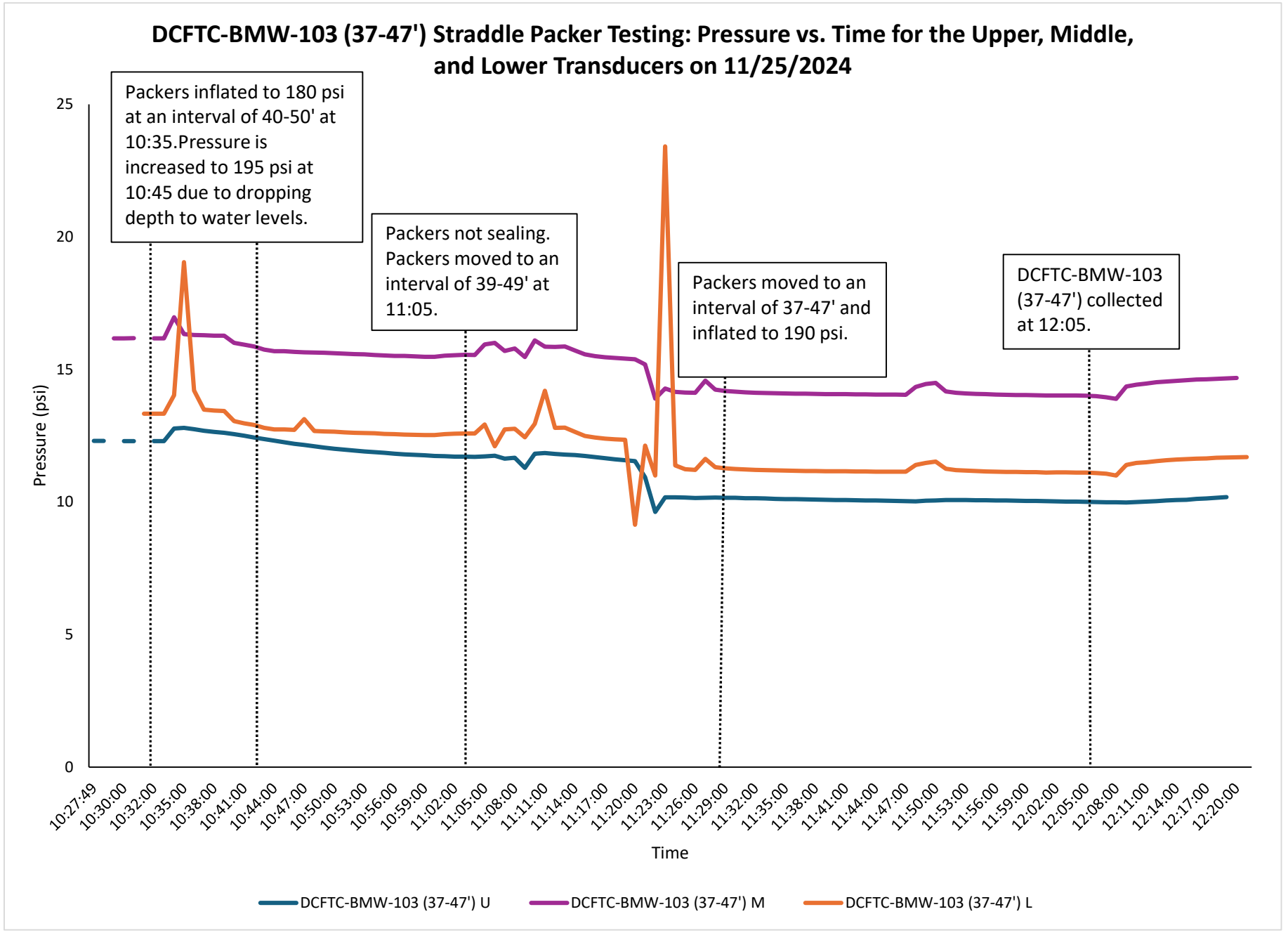

DCFTC-BMW-101 (19-29') Straddle Packer Testing: Pressure vs. Time for the Upper, Middle, and Lower Transducers on 11/20/2024
Packers inflated to 180 psi at 10:15.
Purging begins at 10:25.
Water column runs dry at 10:55 after pumping 40 gallons.
DCFTC-BMW-101 (19-29') collected at 11:05.
Pressure (psi)
12
10
8
6
4
2
0
-2
10:10:03
10:11:56
10:13:00
10:14:00
10:16:00
10:18:00
10:20:00
10:22:00
10:24:00
10:26:00
10:28:00
10:30:00
10:32:00
10:34:00
10:36:00
10:38:00
10:40:00
10:42:00
10:44:00
10:46:00
10:48:00
10:50:00
10:52:00
10:54:00
10:56:00
10:58:00
11:00:00
11:02:00
11:04:00
11:06:00
11:08:00
11:10:00
11:12:00
Time
DCFTC-BMW-101 (19-29') U
DCFTC-BMW-101 (19-29') M
DCFTC-BMW-101 (19-29') L

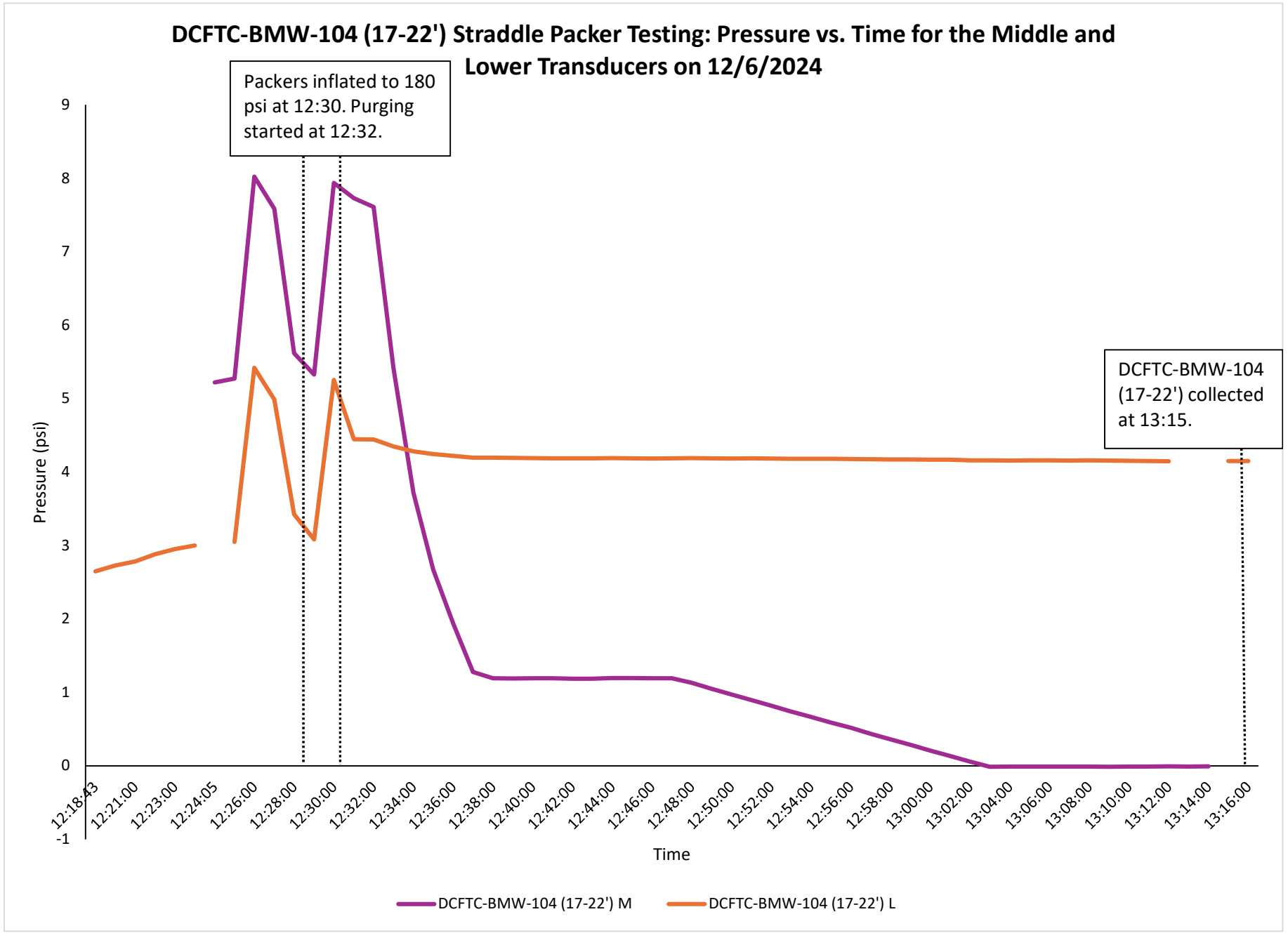

DCFTC-BMW-101 (39-49') Straddle Packer Testing: Pressure vs. Time for the Upper, Middle, and Lower Transducers on 11/19/2024
Packers are inflated to 180 psi at 9:30.
Purging begins at 9:40.
DCFTC-BMW-101 (39-49') collected at 10:25.
Pressure (psi)
0
2
4
6
8
10
12
14
16
19:03:30
9:30:00
9:31:00
9:33:00
9:35:00
9:37:00
9:39:00
9:41:00
9:43:00
9:45:00
9:47:00
9:49:00
9:51:00
9:53:00
9:55:00
9:57:00
9:58:00
10:00:00
10:02:00
10:04:00
10:06:00
10:08:00
10:10:00
10:12:00
10:14:00
10:16:00
10:18:00
10:20:00
10:21:00
10:23:00
10:25:00
10:27:00
10:29:00
10:31:00
10:33:00
10:35:00
10:37:00
10:39:00
10:41:00
Time
DCFTC-BMW-101 (39-49') U
DCFTC-BMW-101 (39-49') M
DCFTC-BMW-101 (39-49') L

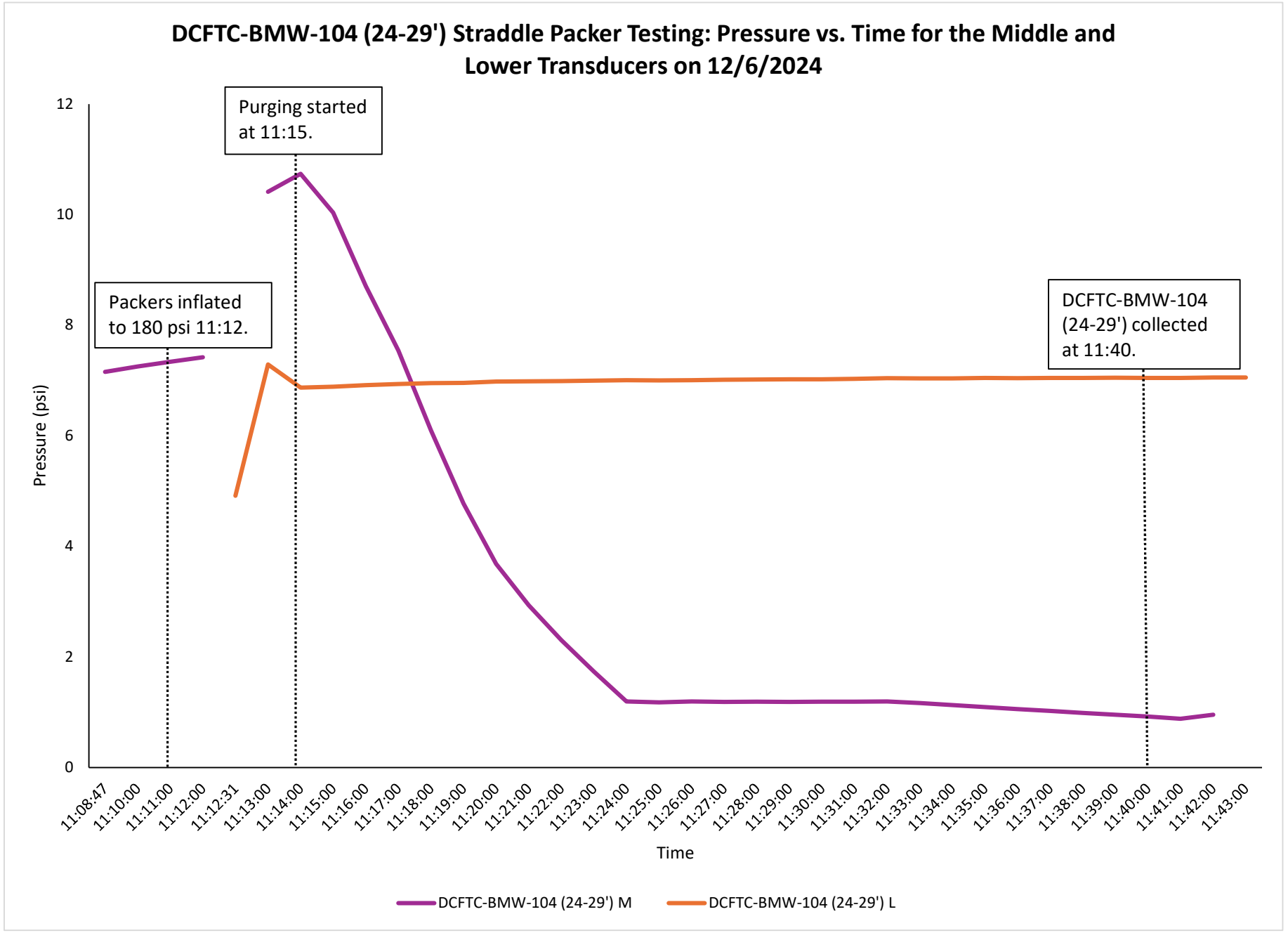

DCFTC-BMW-102 (21-31') Straddle Packer Testing: Pressure vs. Time for the Upper, Middle, and Lower Transducers on 11/21/2024
Packers inflated to 180 psi at 13:25.
DCFTC-BMW-102 (21-31') collected at 14:55.
Pressure (psi)
Time
DCFTC-BMW-102 (21-31') U
DCFTC-BMW-102 (21-31') M
DCFTC-BMW-102 (21-31') L

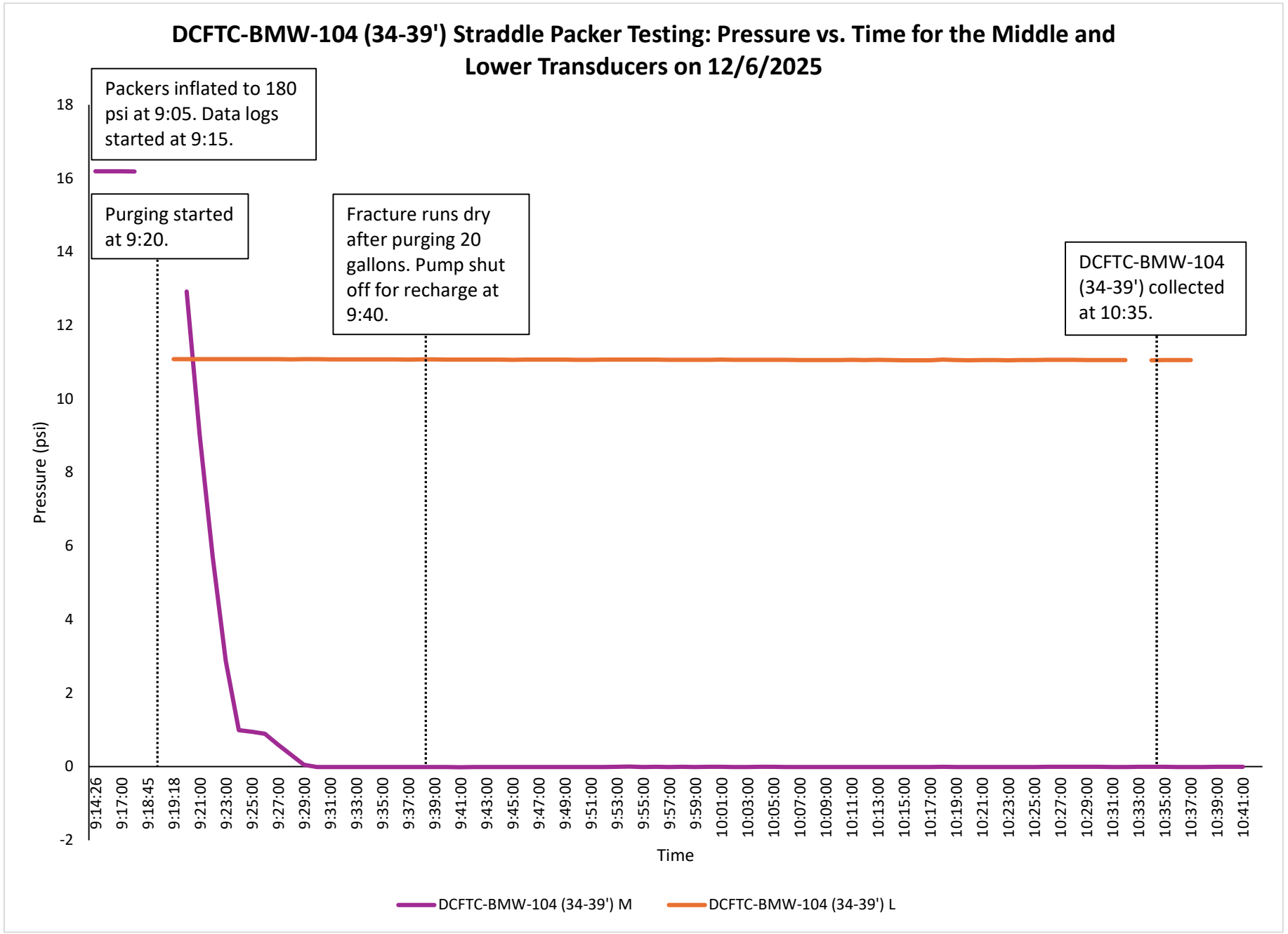

DCFTC-BMW-102 (35-45') Straddle Packer Testing: Pressure vs. Time for the Upper, Middle, and Lower Transducers on 11/21/2024
Packers inflated to 180 psi at 11:20.
Packers inflated to 190 psi at 11:45. Purge resumed.
DCFTC-BMW-102 (35-45') collected at 12:30.
Pressure (psi)
Time
DCFTC-BMW-102 U (35-45')
DCFTC-BMW-102 M (35-45')
DCFTC-BMW-102 L (35-45')

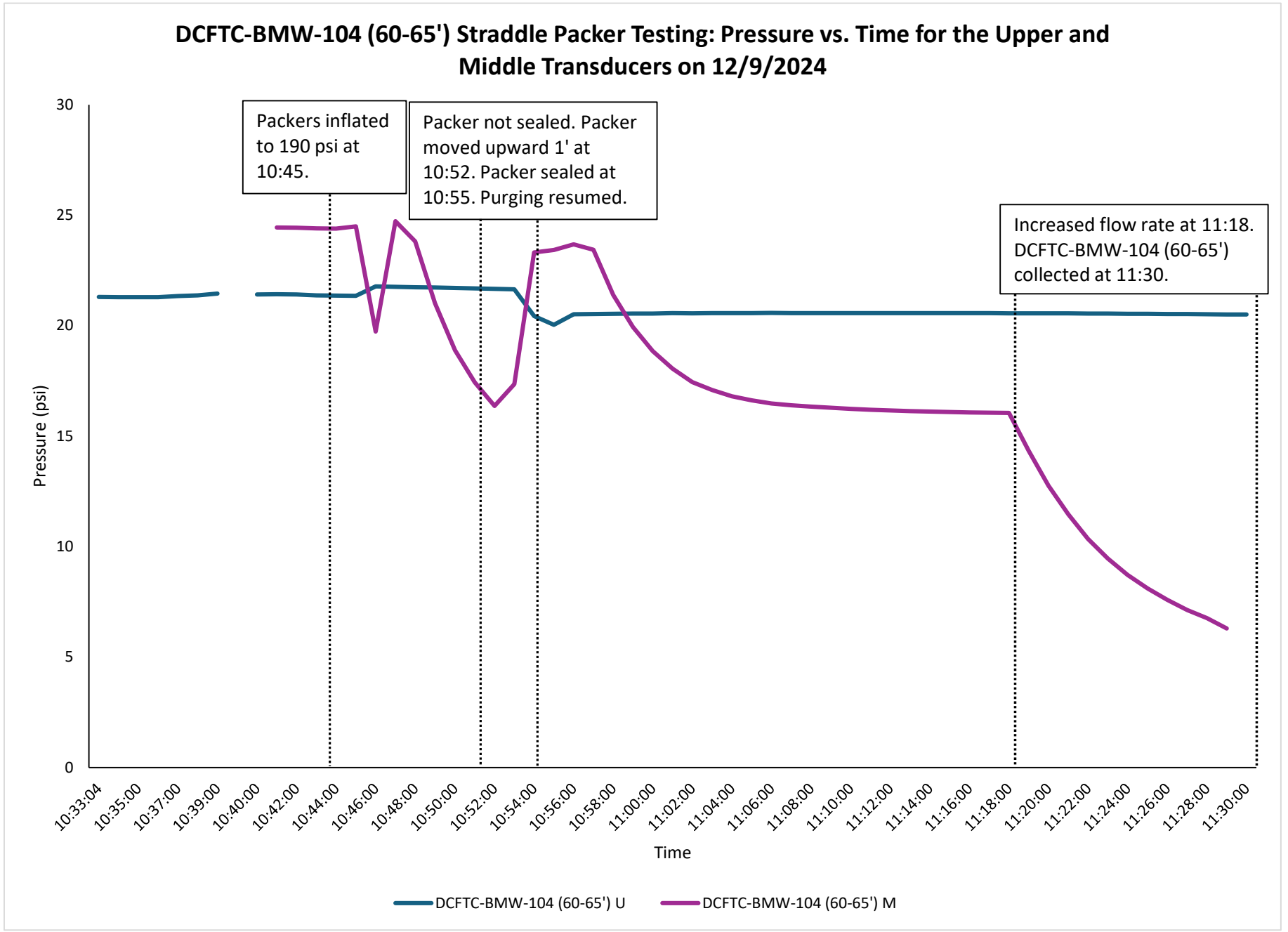

DCFTC-BMW-103 (25-35') Straddle Packer Testing: Pressure vs. Time for the Upper, Middle, and Lower Transducers 11/25/2024
Packers inflated to 195 psi at 13:25.
DCFTC-BMW-103 (25-35') collected at 14:25.
Pressure (psi)
0
2
4
6
8
10
12
Time
13:16:12
13:18:00
13:19:00
13:20:01
13:22:00
13:24:00
13:26:00
13:28:00
13:30:00
13:32:00
13:34:00
13:36:00
13:38:00
13:40:00
13:42:00
13:44:00
13:46:00
13:48:00
13:50:00
13:52:00
13:54:00
13:56:00
13:58:00
14:00:00
14:02:00
14:04:00
14:06:00
14:08:00
14:10:00
14:12:00
14:14:00
14:16:00
14:18:00
14:20:00
14:22:00
14:24:00
14:26:00
14:28:00
14:30:00
DCFTC-BMW-103 (25-35') U
DCFTC-BMW-103 (25-35') M
DCFTC-BMW-103 (25-35') L

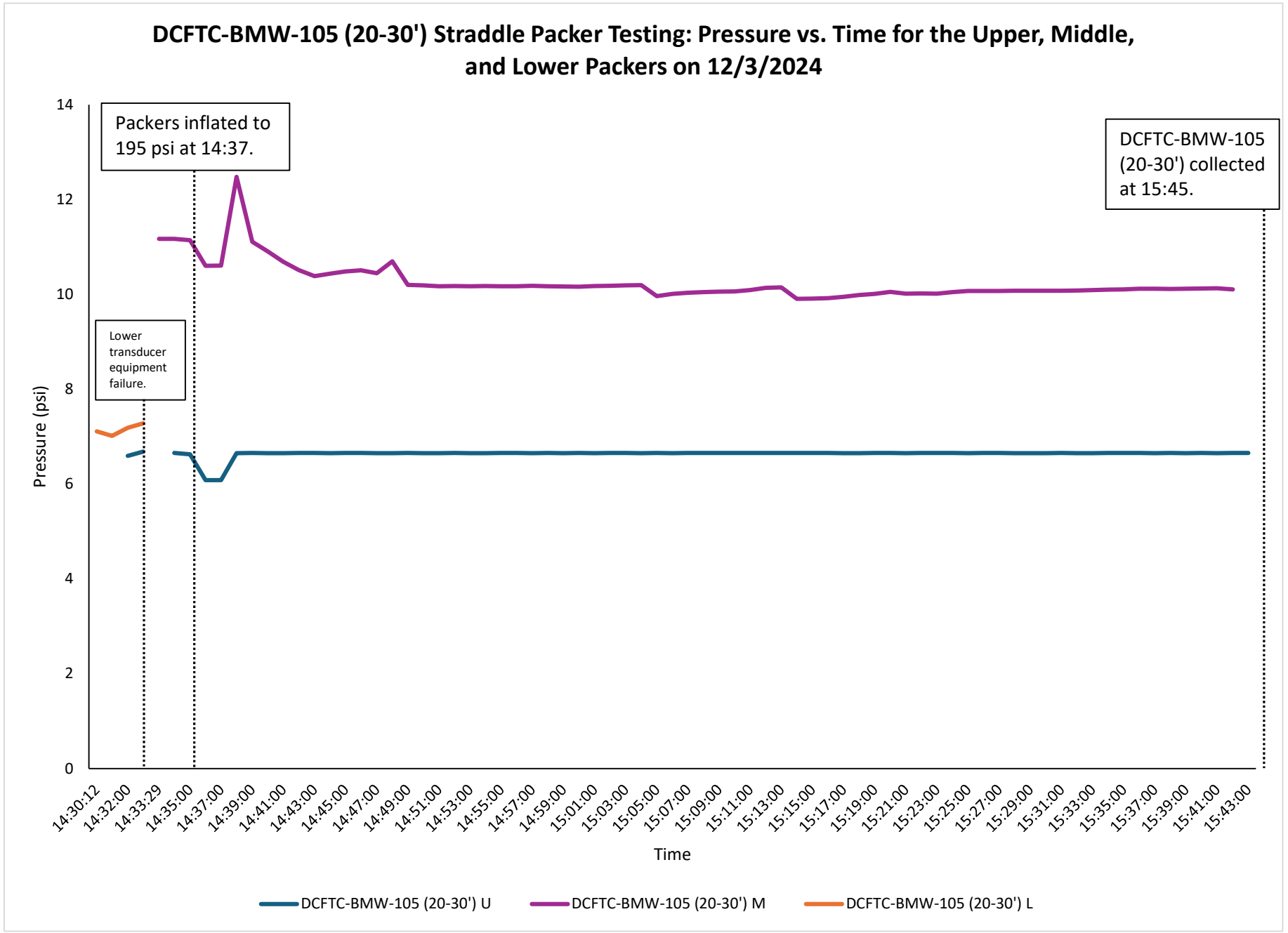

DCFTC-BMW-103 (37-47') Straddle Packer Testing: Pressure vs. Time for the Upper, Middle, and Lower Transducers on 11/25/2024
Packers inflated to 180 psi at an interval of 40-50' at 10:35.Pressure is increased to 195 psi at 10:45 due to dropping depth to water levels.
Packers not sealing. Packers moved to an interval of 39-49' at 11:05.
Packers moved to an interval of 37-47' and inflated to 190 psi.
DCFTC-BMW-103 (37-47') collected at 12:05.
Pressure (psi)
25
20
15
10
5
0
10:27:49
10:30:00
10:32:00
10:35:00
10:38:00
10:41:00
10:44:00
10:47:00
10:50:00
10:53:00
10:56:00
10:59:00
11:02:00
11:05:00
11:08:00
11:11:00
11:14:00
11:17:00
11:20:00
11:23:00
11:26:00
11:29:00
11:32:00
11:35:00
11:38:00
11:41:00
11:44:00
11:47:00
11:50:00
11:53:00
11:56:00
11:59:00
12:02:00
12:05:00
12:08:00
12:11:00
12:14:00
12:17:00
12:20:00
Time
DCFTC-BMW-103 (37-47') U
DCFTC-BMW-103 (37-47') M
DCFTC-BMW-103 (37-47') L

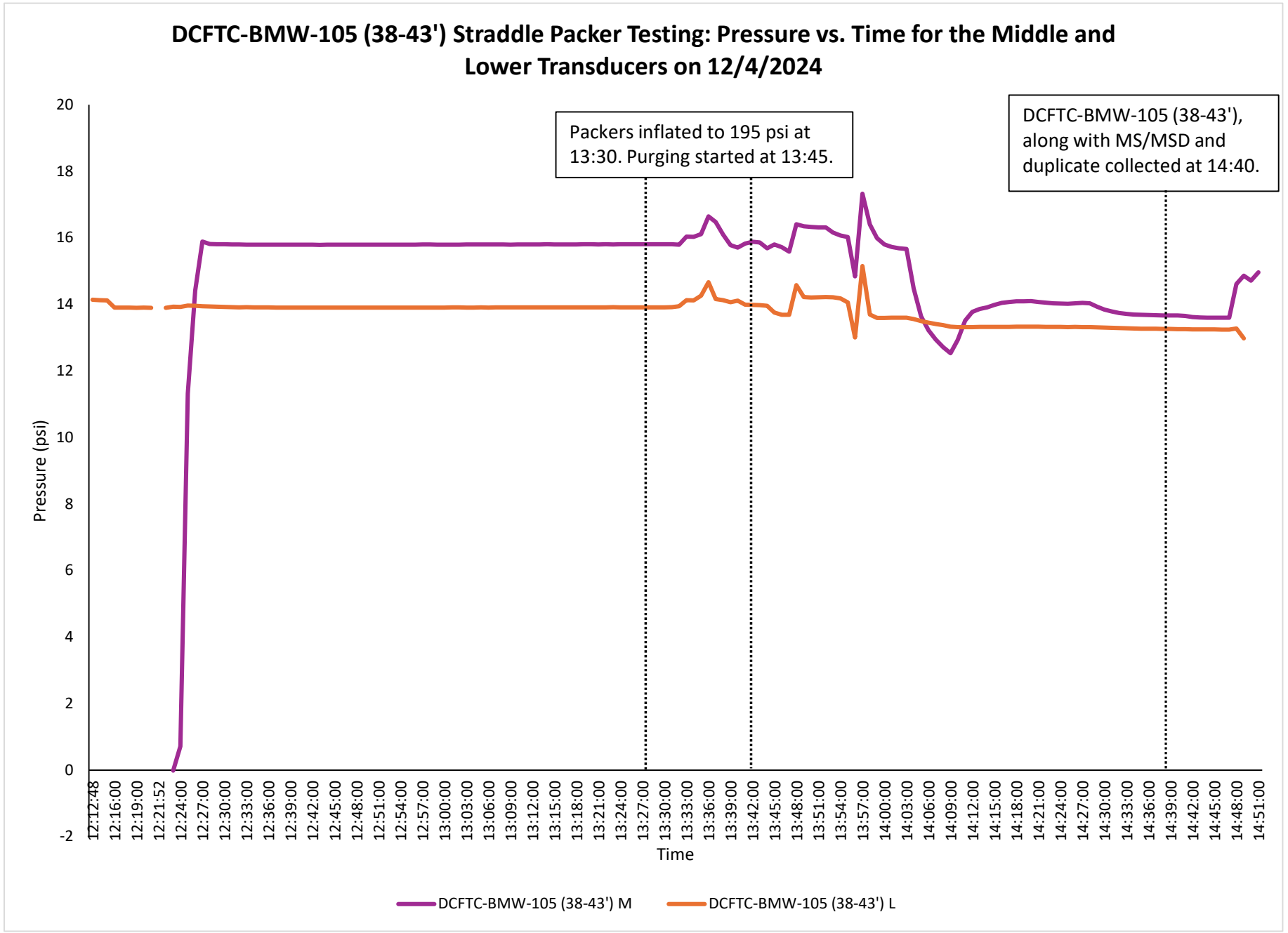

DCFTC-BMW-104 (17-22') Straddle Packer Testing: Pressure vs. Time for the Middle and Lower Transducers on 12/6/2024
Packers inflated to 180 psi at 12:30. Purging started at 12:32.
DCFTC-BMW-104 (17-22') collected at 13:15.
Pressure (psi)
9
8
7
6
5
4
3
2
1
0
-1
12:18:43
12:21:00
12:23:00
12:24:05
12:26:00
12:28:00
12:30:00
12:32:00
12:34:00
12:36:00
12:38:00
12:40:00
12:42:00
12:44:00
12:46:00
12:48:00
12:50:00
12:52:00
12:54:00
12:56:00
12:58:00
13:00:00
13:02:00
13:04:00
13:06:00
13:08:00
13:10:00
13:12:00
13:14:00
13:16:00
Time
DCFTC-BMW-104 (17-22') M
DCFTC-BMW-104 (17-22') L


DCFTC-BMW-104 (24-29') Straddle Packer Testing: Pressure vs. Time for the Middle and Lower Transducers on 12/6/2024
Purging started at 11:15.
Packers inflated to 180 psi 11:12.
DCFTC-BMW-104 (24-29') collected at 11:40.
Pressure (psi)
0
2
4
6
8
10
12
Time
11:08:47
11:10:00
11:11:00
11:12:00
11:12:31
11:13:00
11:14:00
11:15:00
11:16:00
11:17:00
11:18:00
11:19:00
11:20:00
11:21:00
11:22:00
11:23:00
11:24:00
11:25:00
11:26:00
11:27:00
11:28:00
11:29:00
11:30:00
11:31:00
11:32:00
11:33:00
11:34:00
11:35:00
11:36:00
11:37:00
11:38:00
11:39:00
11:40:00
11:41:00
11:42:00
11:43:00
DCFTC-BMW-104 (24-29') M
DCFTC-BMW-104 (24-29') L


DCFTC-BMW-104 (34-39') Straddle Packer Testing: Pressure vs. Time for the Middle and Lower Transducers on 12/6/2025
Packers inflated to 180 psi at 9:05. Data logs started at 9:15.
Purging started at 9:20.
Fracture runs dry after purging 20 gallons. Pump shut off for recharge at 9:40.
DCFTC-BMW-104 (34-39') collected at 10:35.
Pressure (psi)
18
16
14
12
10
8
6
4
2
0
-2
9:14:26
9:17:00
9:18:45
9:19:18
9:21:00
9:23:00
9:25:00
9:27:00
9:29:00
9:31:00
9:33:00
9:35:00
9:37:00
9:39:00
9:41:00
9:43:00
9:45:00
9:47:00
9:49:00
9:51:00
9:53:00
9:55:00
9:57:00
9:59:00
10:01:00
10:03:00
10:05:00
10:07:00
10:09:00
10:11:00
10:13:00
10:15:00
10:17:00
10:19:00
10:21:00
10:23:00
10:25:00
10:27:00
10:29:00
10:31:00
10:33:00
10:35:00
10:37:00
10:39:00
10:41:00
Time
DCFTC-BMW-104 (34-39') M
DCFTC-BMW-104 (34-39') L


DCFTC-BMW-104 (60-65') Straddle Packer Testing: Pressure vs. Time for the Upper and Middle Transducers on 12/9/2024
Packers inflated to 190 psi at 10:45.
Packer not sealed. Packer moved upward 1' at 10:52. Packer sealed at 10:55. Purging resumed.
Increased flow rate at 11:18. DCFTC-BMW-104 (60-65') collected at 11:30.
Pressure (psi)
30
25
20
15
10
5
0
10:33:04
10:35:00
10:37:00
10:39:00
10:40:00
10:42:00
10:44:00
10:46:00
10:48:00
10:50:00
10:52:00
10:54:00
10:56:00
10:58:00
11:00:00
11:02:00
11:04:00
11:06:00
11:08:00
11:10:00
11:12:00
11:14:00
11:16:00
11:18:00
11:20:00
11:22:00
11:24:00
11:26:00
11:28:00
11:30:00
Time
DCFTC-BMW-104 (60-65') U
DCFTC-BMW-104 (60-65') M


DCFTC-BMW-105 (20-30') Straddle Packer Testing: Pressure vs. Time for the Upper, Middle, and Lower Packers on 12/3/2024
Packers inflated to 195 psi at 14:37.
DCFTC-BMW-105 (20-30') collected at 15:45.
Lower transducer equipment failure.
Pressure (psi)
0
2
4
6
8
10
12
14
14:30:12
14:32:00
14:33:29
14:35:00
14:37:00
14:39:00
14:41:00
14:43:00
14:45:00
14:47:00
14:49:00
14:51:00
14:53:00
14:55:00
14:57:00
14:59:00
15:01:00
15:03:00
15:05:00
15:07:00
15:09:00
15:11:00
15:13:00
15:15:00
15:17:00
15:19:00
15:21:00
15:23:00
15:25:00
15:27:00
15:29:00
15:31:00
15:33:00
15:35:00
15:37:00
15:39:00
15:41:00
15:43:00
Time
DCFTC-BMW-105 (20-30') U
DCFTC-BMW-105 (20-30') M
DCFTC-BMW-105 (20-30') L


DCFTC-BMW-105 (38-43') Straddle Packer Testing: Pressure vs. Time for the Middle and Lower Transducers on 12/4/2024
Packers inflated to 195 psi at 13:30. Purging started at 13:45.
DCFTC-BMW-105 (38-43'), along with MS/MSD and duplicate collected at 14:40.
Pressure (psi)
Time
DCFTC-BMW-105 (38-43') M
DCFTC-BMW-105 (38-43') L

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	
NYSDEC Dutchess County Fire Training Center	
PROJECT NUMBER	
453208	
SAMPLE ID	**SAMPLE TIME**
DCFTC-BMW-101 (3-13')	13:30

LOCATION ID	DATE
DCFTC-BMW-101	11/20/2024
START TIME	**END TIME**
12:40	13:30
SITE NAME/NUMBER	**PAGE**
NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	55 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	40.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
12:40	**BEGIN PURGING**									
12:45		1.25	15.3	1,986.62	7.59	2.32	97.93	-78.16		
12:50		1.25	15.3	1,972.12	7.59	2.26	100.95	-74.02		
12:55		1.25	15.7	1,999.33	7.52	1.89	88.23	-71.58		
13:00		0	15.7	2.30	7.88	9.80	27.13	-46.23		Zone runs dry at 13:00.
13:05		1	16.1	1.94	8.00	9.74	13.98	10.09		
13:10		1	14.7	2,069.14	7.36	0.59	53.28	-54.47		Pumping resumed at 13:10.
13:15		1	14.8	3.44	7.59	9.73	10.54	-62.25		
13:20		1	15.3	1.67	7.89	9.88	5.07	-28.31		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

15	**1.67**	**7.9**	**9.9**	**5.1**	**-28**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
[ ] PERISTALTIC	[ ] LIQUINOX	[ ] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[X] WL METER
[X] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER
[ ] _____	[ ] NITRIC ACID	[X] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 40 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/20/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-101	11/20/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		10:21	11:05
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-101 (19-29')	11:05	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	3.60 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	55 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	40.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:21	**BEGIN PURGING**									
10:26		1.3	14.2	2,073.58	7.36	0.54	64.57	-2.97		
10:31		1.3	14.1	2,067.53	7.36	0.57	58.75	-49.26		
10:36		1.3	14.1	2,052.88	7.39	0.63	58.36	-58.81		
10:41		1.3	14.1	2,046.06	7.41	0.75	64.31	-61.82		
10:46		1.3	14.0	2,049.02	7.41	0.94	67.47	-62.26		Final stabilized field parameters.
10:51		1.3	13.8	2.83	7.70	9.90	0	-76.65		Zone runs dry at 10:55.

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

14	**2,050**	**7.4**	**0.9**	**67.8**	**-77**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 40 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Zone runs dry at 10:55. Recharge sampled at 11:05.

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/20/2025

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-101	11/19/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		9:40	10:25
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-101 (39-49')	10:25	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	8.41 FT	**FINAL DTW (BMP)**	8.49 FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	55 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	45.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
9:42	**BEGIN PURGING**									
9:47		1	13.18	2,150.75	7.30	0.07	267.18	-27.10		
9:52		1	13.13	2,166.06	7.29	0.08	285.17	-53.43		
9:57		1	13.16	2,170.29	7.29	0.08	296.84	-46.28		
10:02		1	13.21	2,174.46	7.28	0.07	265.91	-47.89		
10:07		1	13.33	2,173.49	7.27	0.07	241.28	-43.86		
10:12		1	13.25	2,168.83	7.27	0.06	211.71	-40.89		
10:17		1	13.31	2,163.39	7.26	0.04	169.67	-40.77		
10:22		1	13.39	2,113.40	7.27	0.13	108.98	-39.51		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

13	**2,110**	**7.3**	**0.1**	**109**	**-40**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] PUMP
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 45 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/19/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	
Dutchess County Fire Training Center	
PROJECT NUMBER	
453208	
SAMPLE ID	**SAMPLE TIME**
DCFTC-BMW-102 (21-31')	14:55

LOCATION ID	DATE
DCFTC-BMW-102	11/21/2024
START TIME	**END TIME**
13:25	14:55
SITE NAME/NUMBER	**PAGE**
NYSDEC Site No. 314128	1 OF 2

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	3.81 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	72 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	45.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
13:25	**BEGIN PURGING**									
13:30		0.5	12.98	457.89	7.75	0	83.03	-134.95		
13:35		0.5	13.30	458.29	7.72	0	64.42	-130.36		
13:40		0.5	13.30	458.33	7.72	0	62.65	-131.87		
13:45		0.5	13.25	459.67	7.71	0	54.60	-126.68		
13:50		0.5	12.12	459.76	7.71	0	37.81	-121.31		
13:55		0.5	11.88	461.15	7.70	0	32.98	-116.73		
14:00		0.5	11.93	461.41	7.70	0	26.63	-114.28		
14:05		0.5	11.92	462.59	7.69	0	21.27	-111.40		
14:10		0.5	12.94	464.01	7.67	0	13.82	-102.30		
14:15		0.5	12.51	463.55	7.67	0	11.07	-100.69		
14:20		0.5	12.64	463.86	7.67	0	11.51	-99.30		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] PUMP
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 45 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/21/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-102	11/21/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		13:25	14:55
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-102 (21-31')	14:55	NYSDEC Site No. 314128	2 OF 2

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	3.81 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	72 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	45.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
	BEGIN PURGING									
14:25		0.5	13.93	461.55	7.67	0	24.92	-114.29		
14:30		0.5	13.77	459.84	7.69	0	52.96	-118.54		
14:35		0.5	13.76	456.69	7.72	0	86.10	-131.12		
14:40		0.5	13.86	456.13	7.73	0	101.32	-139.07		
14:45		0.5	13.73	457.94	7.71	0	60.30	-133.88		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

14	**458**	**7.7**	**0**	**60.3**	**-130**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] PUMP
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 45 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/21/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-102	11/21/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		11:20	12:30
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-102 (35-45')	12:30	NYSDEC Site No. 314128	1 OF 2

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	5.20 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	72 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	45.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:20	**BEGIN PURGING**									
11:25		0.75	13.32	452.48	7.81	0.04	98.84	-149.58		Packer pressure increased to 180 psi at 11:20.
11:30		0.75	13.33	452.03	7.81	0.01	181.30	-157.34		
11:35		0	13.46	451.85	7.79	0	264.33	-155.22		Pump off.
11:40		0	12.7	0.07	7.83	98.71	0	-82.84		Pump off.
11:45		0.75	13.35	452.25	7.78	0.14	248.57	-140.52		Packer pressure increased to 190 psi at 11:45.
11:50		0.75	13.39	453.63	7.76	0	201.90	-140.86		
11:55		0.75	13.37	457.23	7.72	0	113.06	-129.58		
12:00		0.75	13.34	459.36	7.70	0	65.41	-122.10		
12:05		0.75	13.41	460.55	7.69	0	36.05	-133.48		
12:10		0.75	13.51	461.64	7.67	0	23.89	-107.23		
12:15		0.75	13.38	462.24	7.66	0	13.00	-101.36		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 45 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/21/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-102	11/21/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		11:20	12:30
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-102 (35-45')	12:30	NYSDEC Site No. 314128	2 OF 2

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	5.20 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	72 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	45.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
	BEGIN PURGING									
12:20		0.75	13.39	462.67	7.66	0	7.67	-98.70		
12:25		0.75	13.37	462.96	7.66	0	4.83	-98.47		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

13	**463**	**7.7**	**0**	**4.8**	**-98**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 45 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/21/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-103	11/25/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		13:25	14:45
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-103 (25-35')	14:45	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	7.25 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	60.4 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	45.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
14:00	**BEGIN PURGING**									
14:03		0.75	13.47	700.00	7.38	0.47	15.96	-57.70		
14:06		0.75	13.43	698.91	7.39	0.42	10.82	-64.96		
14:09		0.75	13.43	698.88	7.40	0.43	8.10	-66.30		
14:12		0.75	13.43	699.19	7.40	0.48	7.19	-66.35		
14:15		0.75	13.39	699.63	7.40	0.55	5.61	-65.10		
14:18		0.75	13.38	700.19	7.41	0.62	5.07	-64.07		
14:21		0.75	13.34	700.86	7.41	0.67	3.91	-63.46		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

13	**701**	**7.4**	**0.7**	**3.9**	**-63**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
[ ] PERISTALTIC	[ ] LIQUINOX	[ ] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[X] WL METER
[X] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER
[ ]	[ ] NITRIC ACID	[X] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[X]	[ ]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED 45 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Purging started at 13:25. Logs started at 14:00.

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/25/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-103	11/25/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		11:30	12:05
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-103 (37-47')	12:05	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	9.45 FT	**FINAL DTW (BMP)**	9.46 FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	60.4 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	50.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:46	**BEGIN PURGING**									
11:49		1.1	12.88	743.42	7.45	0	3.26	-39.79		
11:52		1.1	12.88	749.55	7.44	0	1.77	-62.38		
11:55		1.1	12.86	754.18	7.44	0	0.44	-67.30		
11:58		1.1	12.87	759.38	7.44	0	0	-69.49		
12:01		1.1	12.88	764.41	7.44	0	0	-71.48		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

13	**764**	**7.4**	**0**	**0**	**-71**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 50 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Purging started at 11:30. Logs started at 11:46.

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 11/25/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-104	12/6/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		12:32	13:15
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-104 (17-22')	13:15	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	8.50 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	62.7 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	5 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	7.38 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	25.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
12:32	**BEGIN PURGING**									
12:38		0.6	10.95	397.15	7.85	1.93	224.23	-105.96		
12:43		0.6	11.19	397.22	7.82	1.54	203.86	-114.33		
12:48		0.6	10.89	397.47	7.80	1.63	194.08	-113.35		
12:53		0.6	10.93	397.99	7.79	1.63	204.46	-111.63		
12:58		0.6	10.99	398.58	7.79	1.74	179.95	-108.93		
13:03		0.6	11.27	398.56	7.78	1.91	135.79	-105.87		
13:08		0.6	11.26	397.85	7.77	1.79	97.99	-103.26		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

11	**398**	**7.8**	**1.8**	**98.0**	**-100**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[X]	[ ]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED 25 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 12/6/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-104	12/6/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		11:15	11:40
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-104 (24-29')	11:40	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	10.6 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	62.7 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	5 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	7.38 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	25.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:15	**BEGIN PURGING**									
11:19		1	11.55	398.92	7.93	4.08	182.46	-131.32		
11:22		1	11.64	398.66	7.90	5.11	191.52	-120.11		
11:25		1	11.52	398.65	7.89	4.42	189.93	-122.27		
11:28		1	11.18	398.65	7.90	3.17	144.61	-132.65		
11:31		1	11.11	399.47	7.90	2.68	123.46	-136.69		
11:34		1	10.93	398.79	7.91	2.42	125.22	-138.53		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

11	**399**	**7.9**	**2.4**	**125**	**-140**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	See Chain of Custody							
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 25 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 12/6/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-104	12/6/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		9:20	10:35
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-104 (24-29')	10:35	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	4.85 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	62.7 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	5 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	7.38 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	35.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
9:20	**BEGIN PURGING**									
9:30		1	11.04	399.69	7.94	0.59	136.78	-154.82		
9:33		1	10.89	399.62	7.93	0.58	134.01	-158.65		
9:36		1	10.31	404.76	7.92	0.64	134.37	-157.88		Stabilized water quality parameters.
9:39		1	9.87	0.08	7.91	10.84	0	-117.77		
9:42		0	9.29	0.08	7.97	11.23	0	-96.84		Fracture zone runs dry at 9:40.

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

10	**405**	**7.9**	**0.6**	**134**	**-160**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
[ ] PERISTALTIC	[ ] LIQUINOX	[ ] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[X] WL METER
[X] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER
[ ] _____	[ ] NITRIC ACID	[X] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 35 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Fracture runs dry at 9:40. Pump shut off for recharge. Zone sampled at 10:35.

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 12/6/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-104	12/9/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		10:55	11:30
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-104 (60-65')	11:30	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	5.75 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	62.7 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	5 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	7.38 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	25.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:58	**BEGIN PURGING**									
11:01		0.65	10.80	413.94	7.81	0.01	168.34	-102.37		
11:04		0.65	10.80	414.51	7.79	0	144.49	-107.39		
11:07		0.65	10.82	415.22	7.77	0	103.83	-46.08		
11:10		0.65	10.82	415.97	7.76	0	92.07	-82.63		
11:13		0.65	10.83	416.22	7.76	0	83.18	-92.81		
11:16		0.65	10.95	416.18	7.75	0	109.85	-94.82		
11:19		0.8	10.98	415.59	7.75	0	146.65	-97.84		Increased flow rate at 11:18.
11:22		0.8	10.99	416.59	7.74	0	187.48	-97.94		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

11	**417**	**7.7**	**0**	**187**	**-98**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
[ ] PERISTALTIC	[ ] LIQUINOX	[ ] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[X] WL METER
[X] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER
[ ]	[ ] NITRIC ACID	[X] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 25 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 12/9/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	
Dutchess County Fire Training Center	
PROJECT NUMBER	
453208	
SAMPLE ID	**SAMPLE TIME**
DCFTC-BMW-105 (20-30')	15:45

LOCATION ID	DATE
DCFTC-BMW-105	12/3/2024
START TIME	**END TIME**
14:37	15:45
SITE NAME/NUMBER	**PAGE**
NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	3.55 FT	**FINAL DTW (BMP)**	3.55 FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	62.1 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	14.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	45.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
15:15	**BEGIN PURGING**									
15:18		0.7	11.47	610.34	7.59	0.01	153.56	-5.99		
15:21		0.7	11.43	611.52	7.57	0	114.49	-31.20		
15:14		0.7	11.47	612.21	7.57	0	87.97	-41.39		
15:27		0.7	11.41	612.73	7.56	0	64.60	-47.14		
15:30		0.7	11.44	613.08	7.56	0	43.95	-50.32		
15:33		0.7	11.39	613.65	7.55	0	36.52	-52.63		
15:36		0.7	11.43	613.52	7.50	0.01	36.49	-59.80		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

11	**614**	**7.5**	**0**	**36.5**	**-60**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 45 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 12/3/2024

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Dutchess County Fire Training Center		DCFTC-BMW-105	12/4/2024
PROJECT NUMBER		**START TIME**	**END TIME**
453208		13:45	14:40
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
DCFTC-BMW-105 (38-43')	14:40	NYSDEC Site No. 314128	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [X] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

INITIAL DTW (BMP)	3.50 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	62.1 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	5 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	7.38 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	25.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (gal/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
14:09	**BEGIN PURGING**									
14:12		0.45	10.37	648.62	7.69	0.09	151.40	-94.44		
14:15		0.45	10.44	650.46	7.66	0.05	121.72	-93.80		
14:18		0.45	10.37	653.61	7.63	0.02	111.66	-90.49		
14:21		0.45	10.36	657.48	7.60	0	86.36	-86.79		
14:24		0.45	10.23	660.36	7.58	0	63.67	-83.13		
14:27		0.45	10.34	658.49	7.56	0	36.26	-79.59		
14:30		0.45	10.37	668.55	7.55	0	29.97	-77.43		
14:33		0.45	10.36	669.45	7.54	0	18.64	-76.18		
14:36		0.45	10.38	670.77	7.55	0	12.66	-75.21		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

10	**671**	**7.6**	**0**	**12.7**	**-75**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] PUMP
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See Chain of Custody							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED 25 gal.

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Andrew Fishman Print Name Andrew Fishman

Checked By: Justin King Date: 12/4/2024

Attachment 7

Low-Flow Groundwater Sampling Logs

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC Dutchess County Fire Training Center
PROJECT NUMBER	453208
SAMPLE ID	DCFTC-BMW-101
SAMPLE TIME	1215

LOCATION ID	DCFTC-BMW-101
DATE	4/21/2025
START TIME	1110
END TIME	1215
SITE NAME/NUMBER	
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [ ] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

INITIAL DTW (BMP)	2.08 FT	**FINAL DTW (BMP)**	14.65 FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	28.25 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	13.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1110	**BEGIN PURGING**									
1125	5.30	250	11.1	3.331	11.75	3.83	18.46	27.4	26	
1130	5.82	250	11.7	3.351	11.73	3.47	24.39	9.4	26	
1135	6.01	250	11.9	3.355	11.73	3.38	26.24	4.7	26	
1140	6.84	500	11.6	3.325	11.72	3.32	30.14	-4.3	26	
1145	7.80	500	11.2	3.304	11.71	3.30	33.71	-4.1	26	
1150	10.90	500	11.1	3.279	11.68	3.50	19.29	-6.4	26	
1155	12.42	500	11.2	3.269	11.68	3.50	28.42	-8.4	26	
1200	13.3	500	11.2	3.265	11.67	3.50	30.64	-9.8	26	
1205	14.35	250	11.4	3.256	11.66	3.37	33.12	-11.1	26	
1210	14.85	250	11.3	3.255	11.66	3.35	28.42	-11.5	26	
1215	14.65	250	11.4	3.255	11.66	3.33	24.31	-11.8	26	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	11	**3.260**	**11.7**	**3.3**	**24.3**	**-12**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [X] LIQUINOX
- [X] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [X] PID
- [X] WQ METER
- [X] TURB. METER
- [ ] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ____ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	See COC							See COC

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		

NUMBER OF GALLONS GENERATED 13

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Print Name Andrew Fishman

Checked By: Justin King Date: 4/21/2025

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC Dutchess County Fire Training Center
PROJECT NUMBER	453208
SAMPLE ID	DCFTC-BMW-102
SAMPLE TIME	1350

LOCATION ID	DCFTC-BMW-102
DATE	4/21/2025
START TIME	1250
END TIME	1345
SITE NAME/NUMBER	
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [ ] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	0.00 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	0 FT
WELL DEPTH (BMP)	39.45 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	20.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1250	**BEGIN PURGING**									
1320	5.41	200	12.4	2.108	11.96	1.05	6.48	11.0	38	
1325	5.41	200	12.5	1.830	12.02	0.80	8.06	4.9	38	
1330	4.43	200	12.5	1.225	11.91	0.56	13.39	-9.6	38	
1335	4.21	200	12.6	1.100	11.53	0.48	18.80	-17.8	38	
1340	4.16	200	12.6	1.070	11.80	0.45	24.56	-21.1	38	
1345	4.14	200	12.7	1.068	11.79	0.44	19.89	-25.6	38	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
  - Geo Sub
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [X] LIQUINOX
- [X] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER
- [X] PID
- [X] WQ METER
- [X] TURB. METER
- [X] PUMP
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	See COC							See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [X] NO [ ]

NUMBER OF GALLONS GENERATED 20

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

MS/MSD and DUP-01 collected here. DUP-01 @ 1200

Sampler Signature: Print Name Andrew Fishman

Checked By: Justin King Date: 4/21/2025

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC Dutchess County Fire Training Center
PROJECT NUMBER	453208
SAMPLE ID	DCFTC-BMW-103
SAMPLE TIME	1515

LOCATION ID	DCFTC-BMW-103
DATE	4/21/2025
START TIME	1410
END TIME	1510
SITE NAME/NUMBER	
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [ ] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

INITIAL DTW (BMP)	6.91 FT	**FINAL DTW (BMP)**	FT	**PROT. CASING STICKUP (AGS)**	0 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	34.72 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	14.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1410	**BEGIN PURGING**									
1440	22.18	200	13.5	0.780	10.67	4.04	14.04	52.5	33	
1450	21.94	200	13.5	0.793	9.43	1.13	6.00	63.5	33	
1455	20.70	200	13.4	0.809	9.08	0.77	3.35	66.7	33	
1500	19.95	200	13.4	0.813	9.03	0.69	3.01	67.1	33	
1505	18.86	200	13.4	0.826	8.92	0.64	3.18	67.9	33	
1510	18.3	200	13.4	0.831	8.90	0.59	2.98	60.7	33	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
[ ] PERISTALTIC	[X] LIQUINOX	[X] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[ ] WL METER	
[ ] SUBMERSIBLE	[X] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID	
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER	
Geo sub	[ ] NITRIC ACID	[ ] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER	
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP	
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER	
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] FILTERS NO. TYPE	

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See COC							See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [X] NO [ ]

NUMBER OF GALLONS GENERATED 14

NO-PURGE METHOD UTILIZED — YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Print Name Andrew Fishman

Checked By: Justin King Date: 4/21/2025

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC Dutchess County Fire Training Center
PROJECT NUMBER	453208
SAMPLE ID	DCFTC-BMW-104
SAMPLE TIME	1345

LOCATION ID	DCFTC-BMW-104
DATE	4/22/2025
START TIME	1230
END TIME	1345
SITE NAME/NUMBER	
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [ ] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED		X	
COLLAR	X		

INITIAL DTW (BMP)	4.35 FT	**FINAL DTW (BMP)**	23.55 FT	**PROT. CASING STICKUP (AGS)**	2.5 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	37.80 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	33.45 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.000 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	5.49 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	16.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1230	**BEGIN PURGING**									
1250	23.62	250	11.9	1.914	11.95	9.09	8.92	-25.6	35	
1255	23.76	250	13.9	1.818	11.87	9.01	7.39	-30.0	35	
1300	23.85	250	14.1	5.378	12.23	8.72	19.50	-38.2	35	
1305	23.75	250	16.3	4.697	12.30	8.40	20.22	-59.9	35	
1310	23.60	250	18.4	4.553	12.20	7.92	24.05	-55.6	35	
1320	23.45	250	16.3	2.597	12.12	8.03	8.74	-45.4	35	
1325	23.55	250	14.0	2.197	12.12	8.20	11.38	-38.8	35	
1330	23.55	250	16.0	1.963	12.02	7.75	11.61	-35.9	35	
1335	23.55	250	16.1	1.917	11.95	7.52	12.01	-32.7	35	
1340	23.55	250	16.1	1.925	11.94	7.65	9.81	-30.1	35	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**16**	**1.93**	**11.9**	**7.7**	**9.8**	**-30**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	See COC							See COC
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								
[ ]								

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED 16

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Print Name A. Koros

Checked By: Justin King Date: 4/22/2025

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC Dutchess County Fire Training Center
PROJECT NUMBER	453208
SAMPLE ID	DCFTC-BMW-105
SAMPLE TIME	0:00

LOCATION ID	DCFTC-BMW-105
DATE	4/22/2025
START TIME	1010
END TIME	1110
SITE NAME/NUMBER	
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [ ] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED		X	
COLLAR	X		

INITIAL DTW (BMP)	3.10 FT	**FINAL DTW (BMP)**	3.46 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	32.68 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	29.58 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	4.85 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	15.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1010	**BEGIN PURGING**									
1025	3.40	250	11.9	0.956	7.42	2.75	36.05	36.5	31	
1030	3.40	250	11.5	0.958	7.30	1.74	30.58	-0.5	31	
1035	3.40	250	11.5	0.961	7.26	1.54	31.41	-13.5	31	
1040	3.40	250	11.50	0.962	7.25	1.42	35.78	-13.5	31	
1045	3.38	250	11.5	0.965	7.24	1.35	34.70	-13.9	31	
1050	3.41	300	11.2	0.974	7.15	1.19	14.82	-16.1	31	
1101	3.45	300	11.2	0.962	7.20	0.82	13.12	-17.7	31	
1108	3.46	300	11.1	0.958	7.20	0.78	11.88	-18.9	31	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See COC							See COC

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[X]

NUMBER OF GALLONS GENERATED 15

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Print Name A. Koros

Checked By: Justin King Date: 4/22/2025

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC Dutchess County Fire Training Center
PROJECT NUMBER	453208
SAMPLE ID	DCFTC-MW-301
SAMPLE TIME	1230

LOCATION ID	DCFTC-MW-301
DATE	4/22/2025
START TIME	1135
END TIME	1230
SITE NAME/NUMBER	
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [ ] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	4.80 FT	**FINAL DTW (BMP)**	8.30 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	10.25 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	5.45 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.570 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.89 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1135	**BEGIN PURGING**									
1155	7.65	250	11.1	0,663	7.86	1.28	23.00	75.9	9	
1200	7.78	250	11.1	0.657	7.54	0.66	32.02	77.9	9	
1205	7.95	250	11.2	0.663	7.44	0.42	20.40	69.3	9	
1210	8.20	250	10.60	0.662	7.42	0.41	42.06	65.0	9	
1215	8.23	200	12.2	0.668	7.30	0.50	36.05	60.9	9	
1220	8.20	200	12.4	0.678	7.26	0.47	35.78	59.6	9	
1225	8.23	200	11.6	0.685	7.26	0.47	27.40	60.9	9	
1228	8.30	200	11.9	0.678	7.25	0.47	20.05	57.0	9	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

12	**0.678**	**7.3**	**0.5**	**20.1**	**57**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See COC							See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [X]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED — YES [ ] NO [X]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Print Name A. Koros

Checked By: Justin King Date: 4/22/2025

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC Dutchess County Fire Training Center
PROJECT NUMBER	453208
SAMPLE ID	DCFTC-MW-302
SAMPLE TIME	950

LOCATION ID	DCFTC-MW-302
DATE	4/22/2025
START TIME	909
END TIME	950
SITE NAME/NUMBER	
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [X] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [ ] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	6.10 FT	**FINAL DTW (BMP)**	6.1 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	12.35 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	6.25 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.03 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.00 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
909	**BEGIN PURGING**									
924	6.10	250	11.1	0.574	7.23	5.90	6.39	79.0	11.5	
929	6.10	250	11.5	0.566	7.02	5.69	5.35	92.9	11.5	
934	6.10	250	11.6	0.563	6.95	5.63	5.64	100.9	11.5	
940	6.10	250	11.80	0.564	6.94	5.64	3.74	101.0	11.5	
945	6.10	250	11.6	0.567	6.94	5.63	3.15	101.6	11.5	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	12	**0.567**	**6.9**	**5.6**	**3.2**	**102**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	See COC							See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [X]

NUMBER OF GALLONS GENERATED 3

NO-PURGE METHOD UTILIZED — YES [ ] NO [X]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

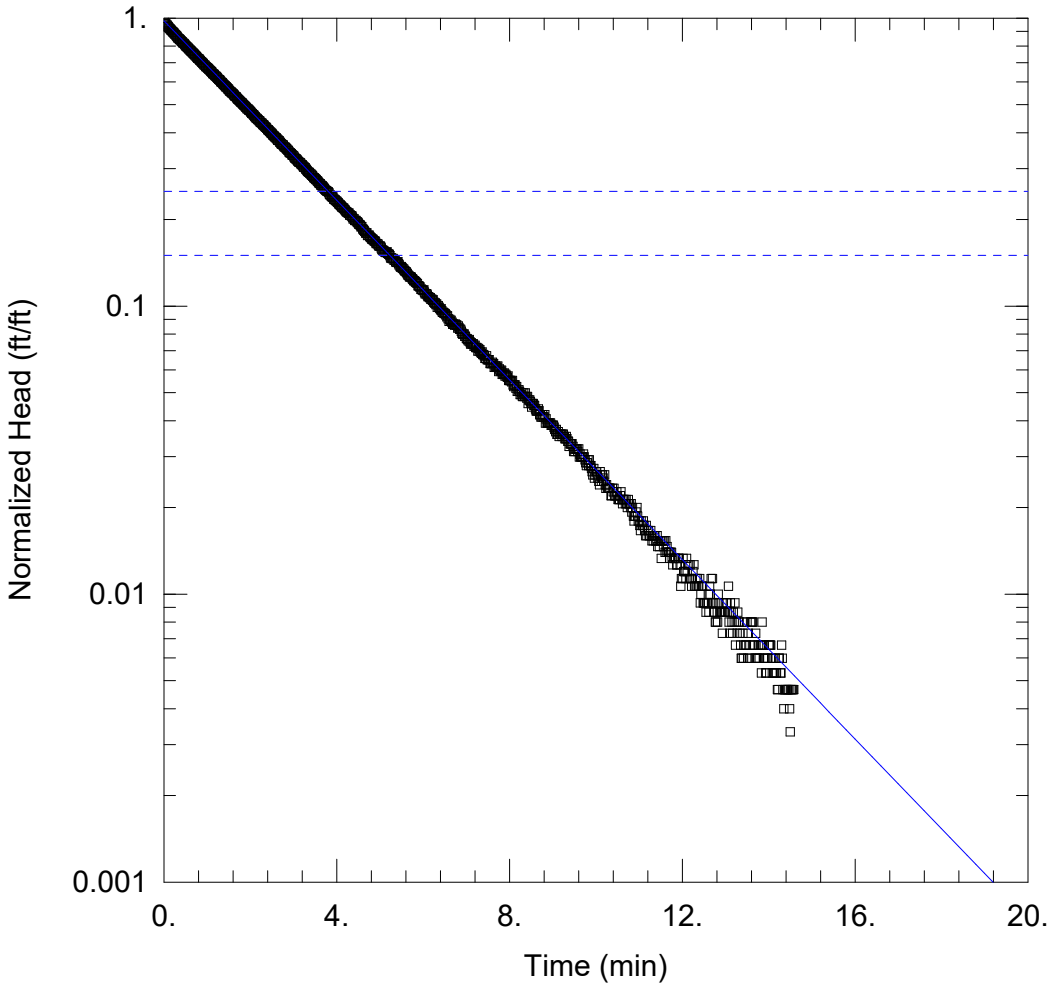
SKETCH/NOTES

Sampler Signature: Print Name A. Koros

Checked By: Justin King Date: 4/22/2025

Attachment 8

Slug Test Plots



FALLING HEAD TEST FH1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\BMW-102 FH1 HV.aqt
Date: 05/23/25 Time: 11:09:19

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-102
Test Date: 01/30/2025

AQUIFER DATA

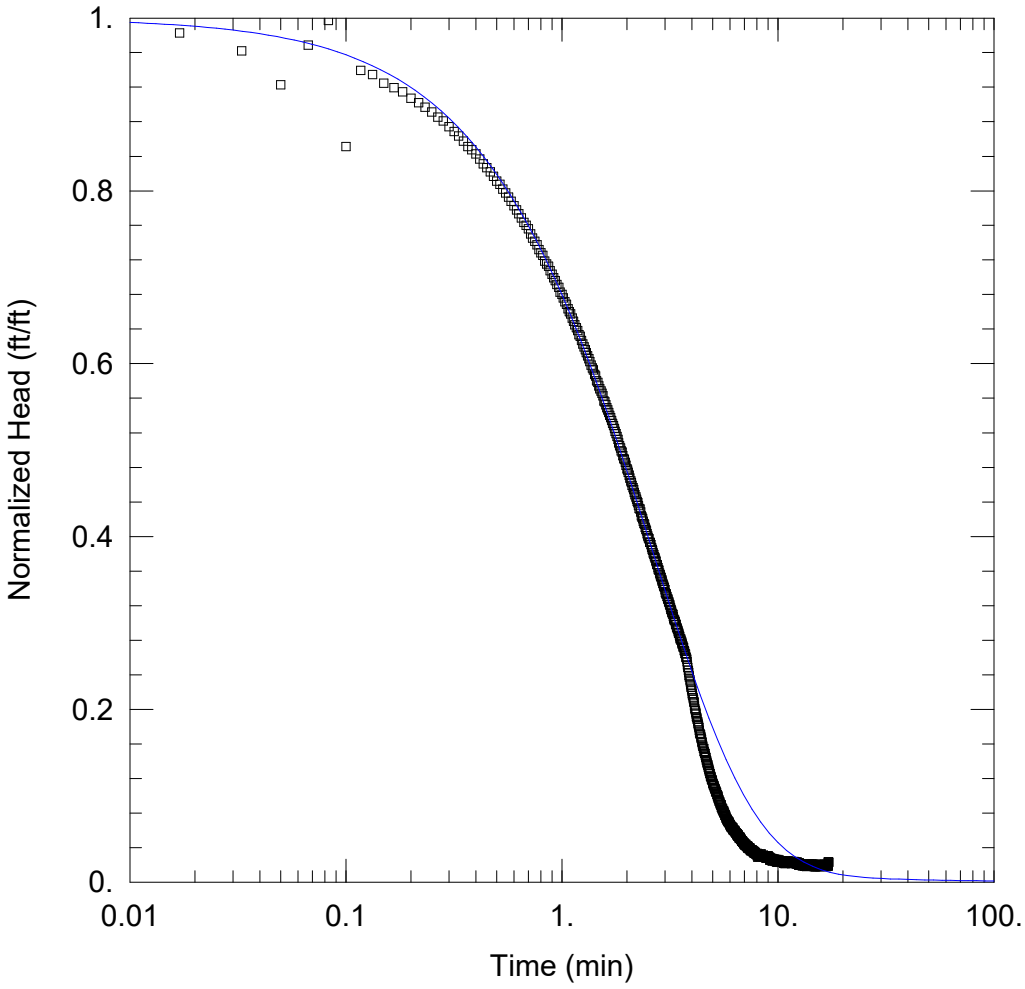
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-102)

Initial Displacement: 1.503 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 37.09 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0004795 cm/sec
y0 = 1.47 ft



FALLING HEAD TEST FH2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\BMW-102 FH2 KGS.aqt
Date: 05/23/25 Time: 11:16:08

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-102
Test Date: 01/30/2025

AQUIFER DATA

Saturated Thickness: 15. ft

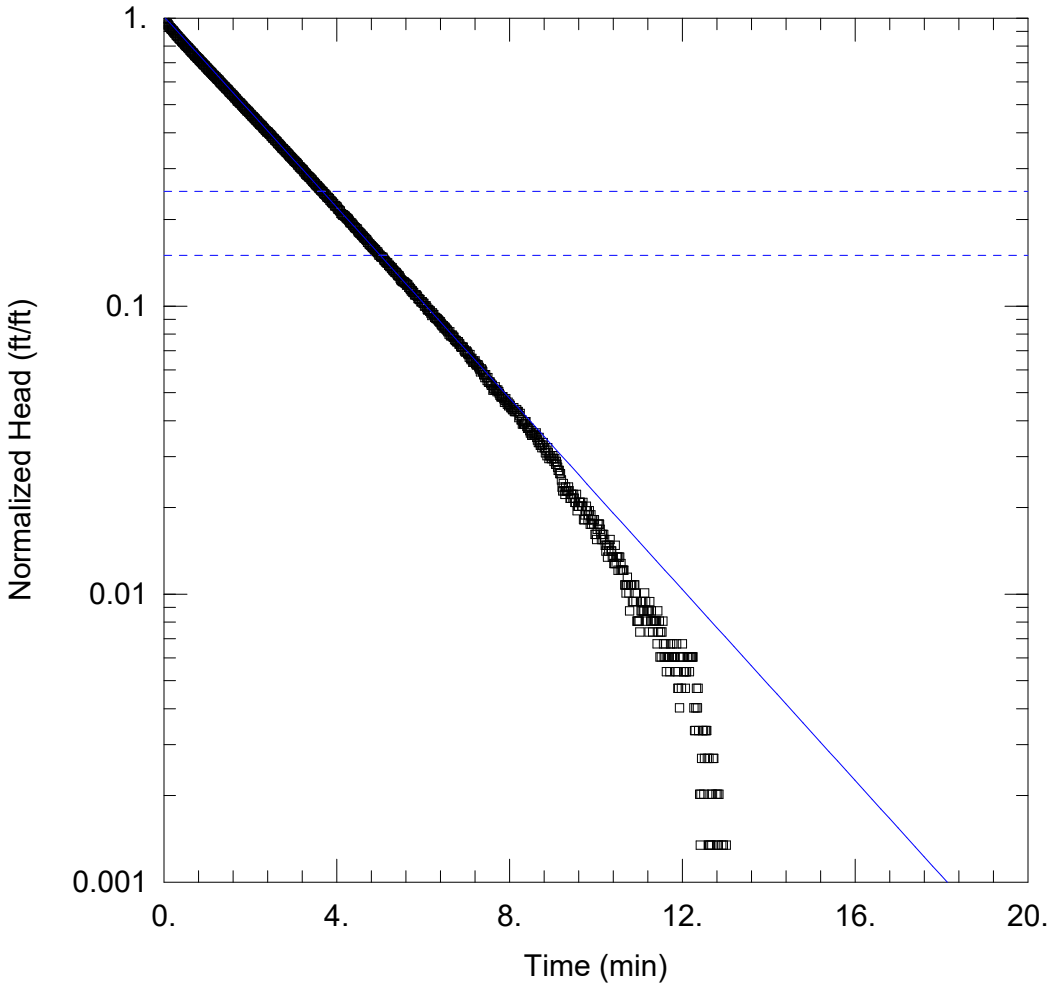
WELL DATA (BMW-102)

Initial Displacement: 1.501 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 37.09 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: KGS Model

Kr = 0.0004905 cm/sec
Kz/Kr = 0.001
Ss = 5.882E-9 ft^{-1}



RISING HEAD TEST RH1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\BMW-102 RH1 HV.aqt
Date: 05/23/25 Time: 11:13:45

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-102
Test Date: 01/30/2025

AQUIFER DATA

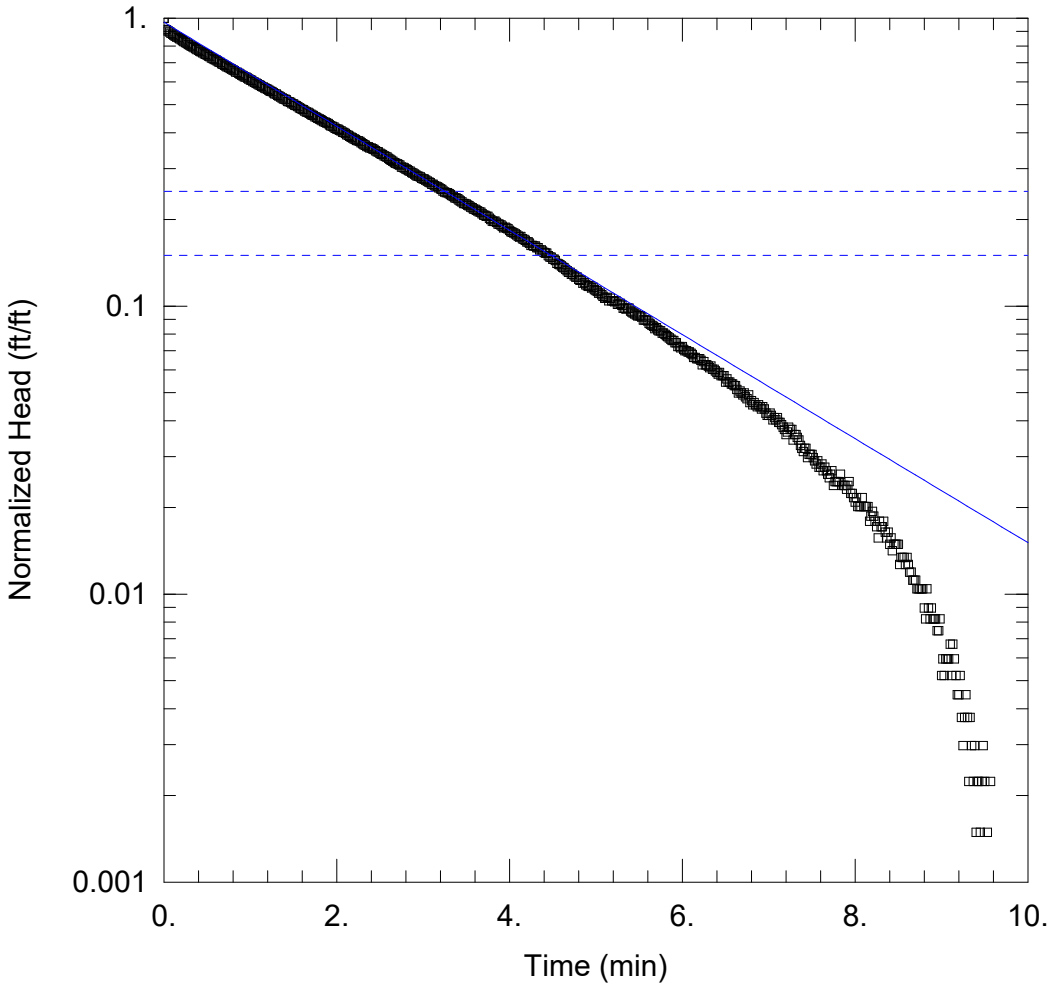
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-102)

Initial Displacement: 1.488 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 37.09 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0005102 cm/sec
y0 = 1.509 ft



RISING HEAD TEST RH2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\BMW-102 RH2 hv.aqt
Date: 05/23/25 Time: 11:24:26

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-102
Test Date: 01/30/2025

AQUIFER DATA

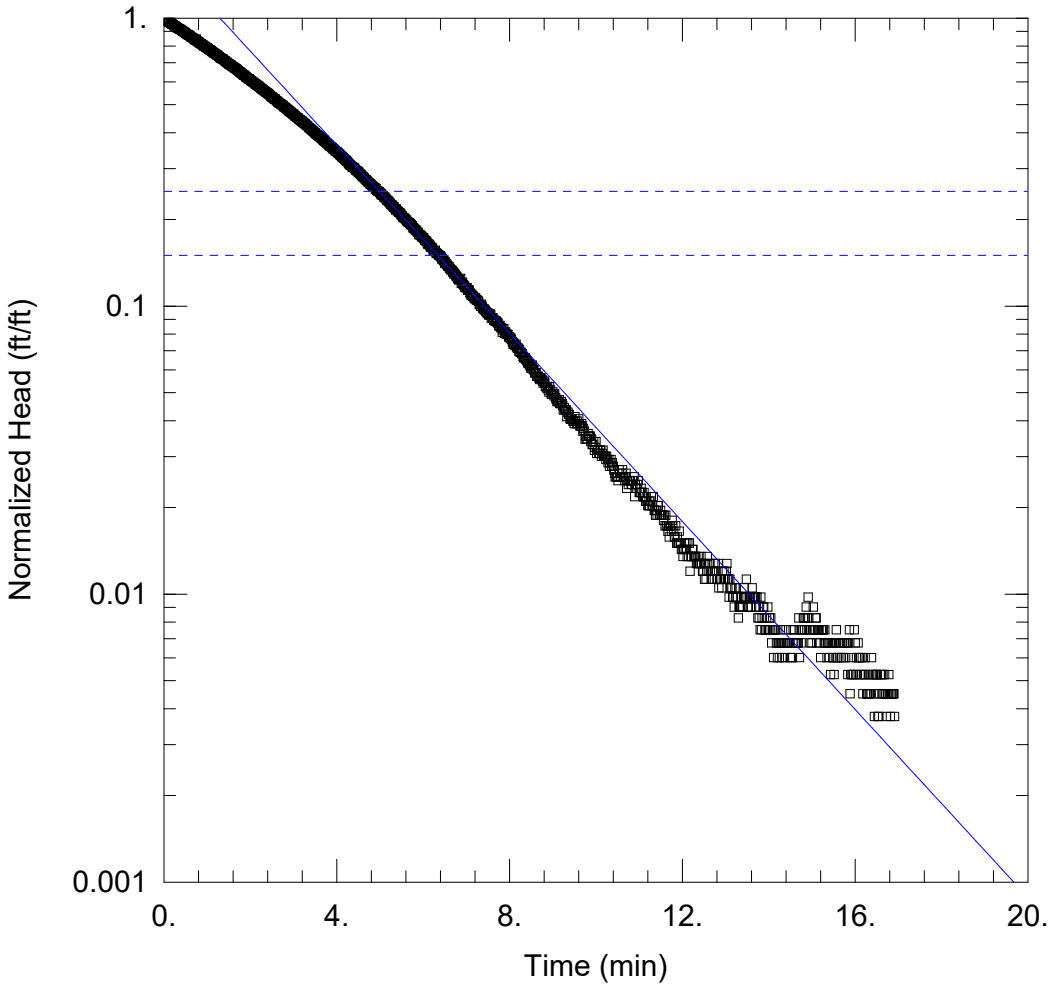
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-102)

Initial Displacement: 1.342 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 37.09 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0005561 cm/sec
y0 = 1.298 ft



FALLLLING HEAD TEST FH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-103 FH1 HV.aqt
Date: 05/20/25 Time: 11:27:44

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-103
Test Date: 4/23/25

AQUIFER DATA

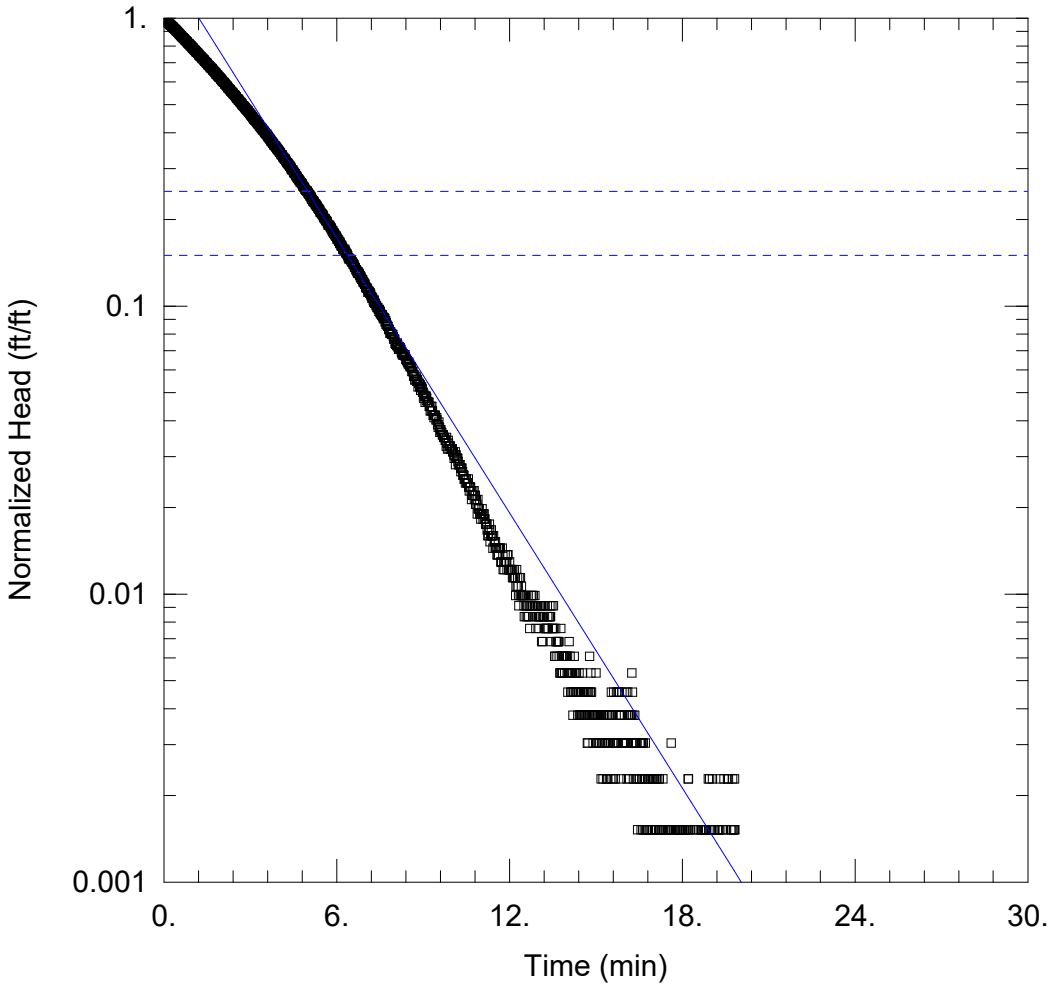
Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-103)

Initial Displacement: 1.331 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.4 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0005023 cm/sec
y0 = 2.166 ft



FALLLLING HEAD TEST FH-2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-103 FH2 HV.aqt
Date: 05/20/25 Time: 12:13:16

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-103
Test Date: 4/23/25

AQUIFER DATA

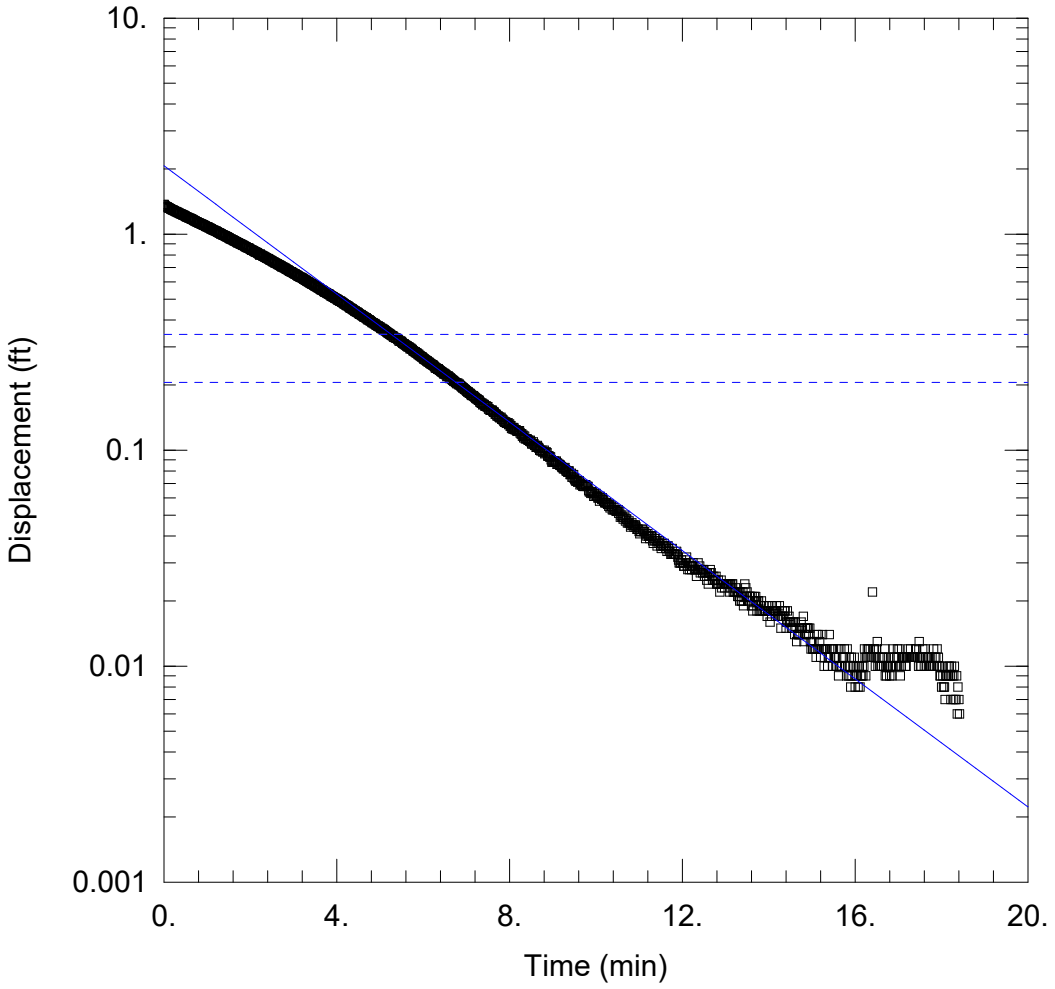
Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-103)

Initial Displacement: 1.316 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.4 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0005886 cm/sec
y0 = 2.052 ft



RISING HEAD TEST RH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\BMW-103 RH1 HV.aqt
Date: 05/23/25 Time: 11:34:50

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-103
Test Date: 4/23/25

AQUIFER DATA

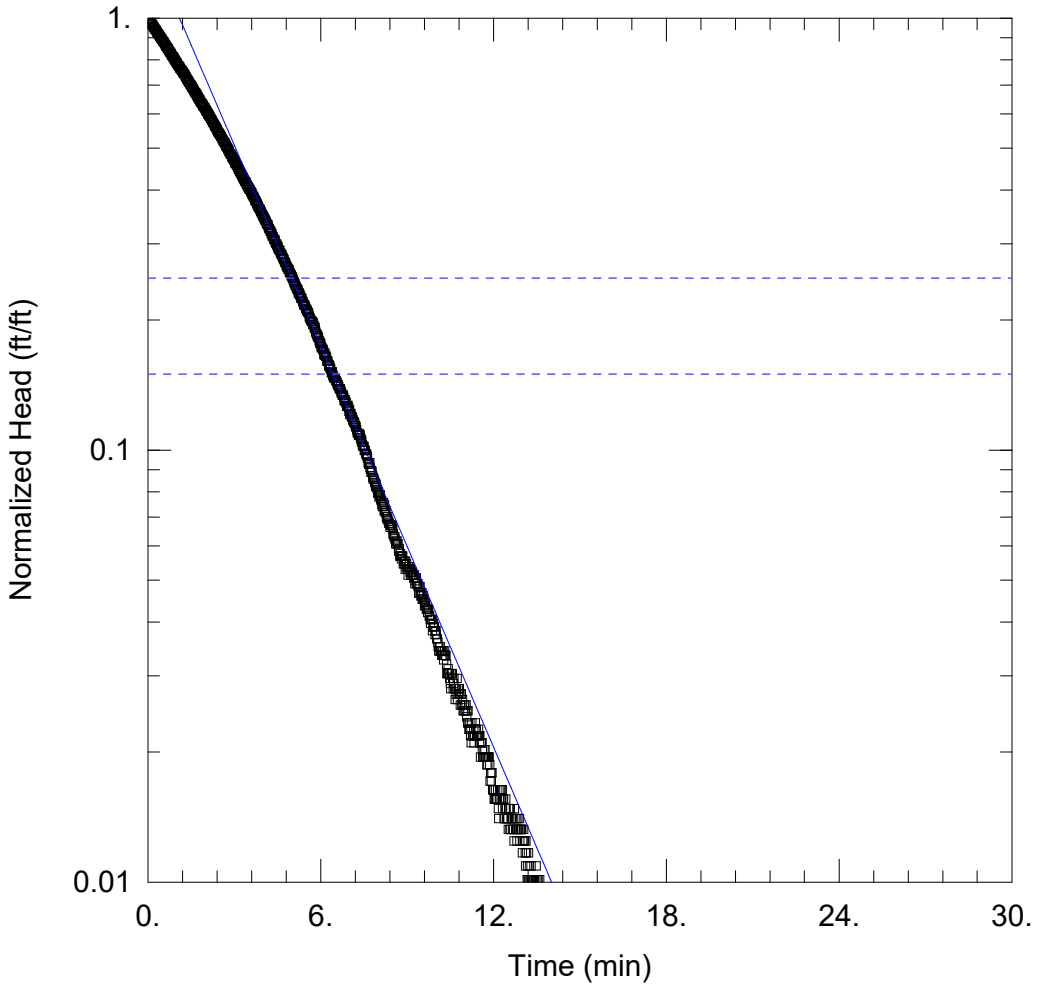
Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-103)

Initial Displacement: 1.372 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.4 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0005259 cm/sec
y0 = 2.069 ft



RISING HEAD TEST RH-2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-103 RH2 HV.aqt
Date: 05/20/25 Time: 13:51:23

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-103
Test Date: 4/23/25

AQUIFER DATA

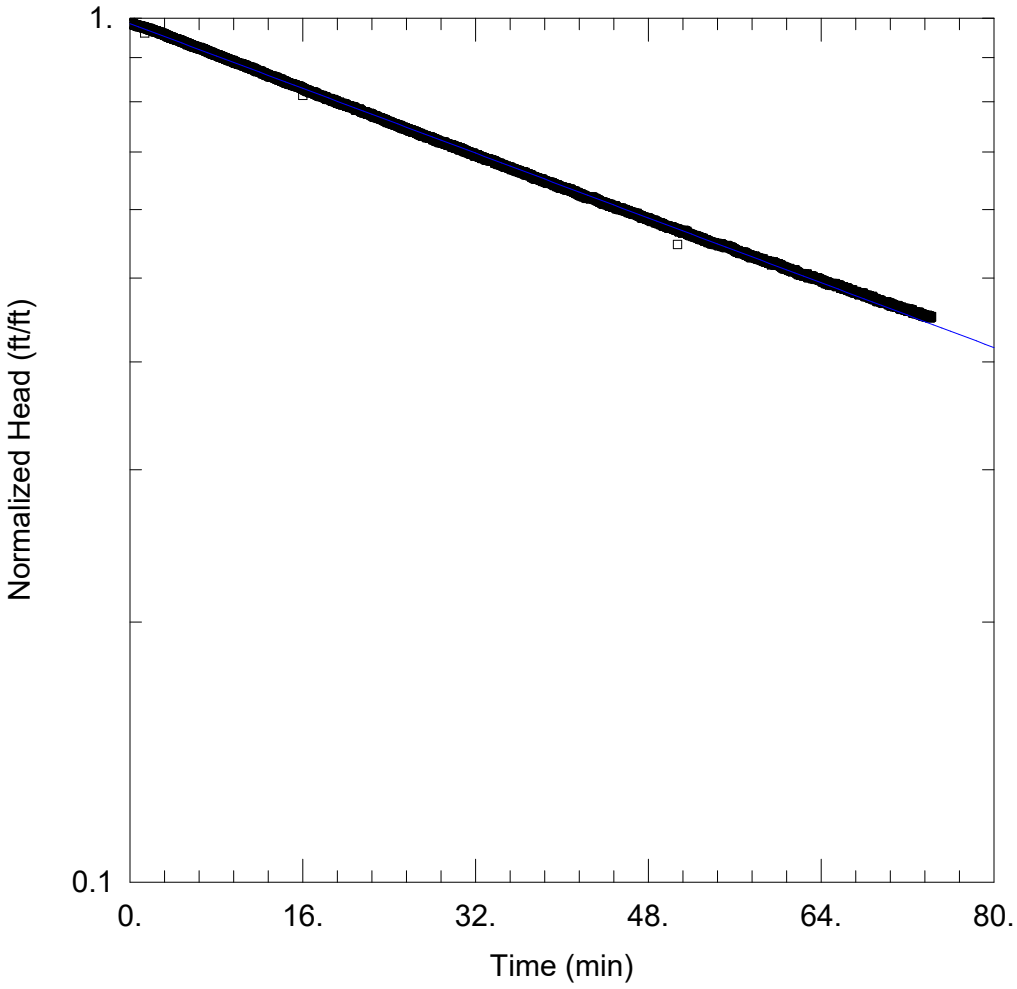
Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-103)

Initial Displacement: 1.284 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27.33 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0005863 cm/sec
y0 = 1.898 ft



FALLING HEAD TEST FH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-104 FH1 HV.aqt
Date: 05/20/25 Time: 14:38:16

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-104
Test Date: 4/24/25

AQUIFER DATA

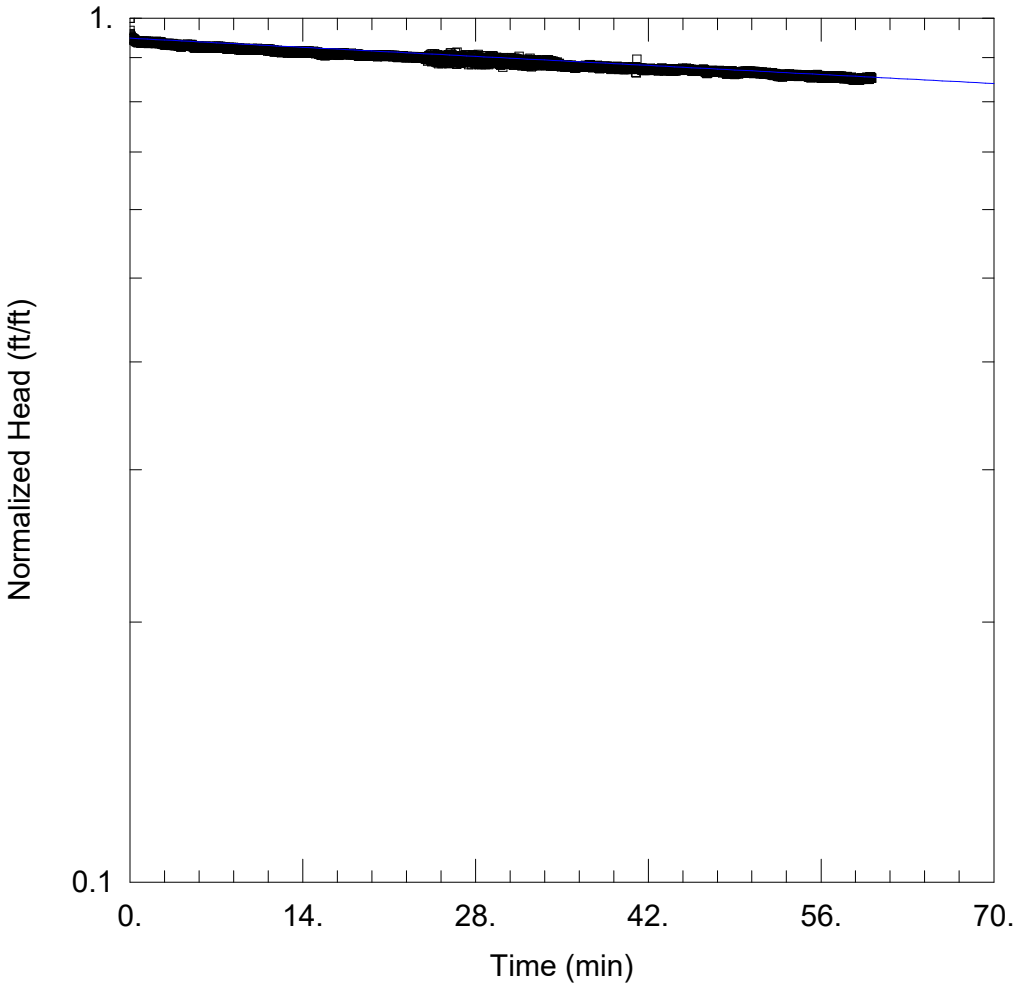
Saturated Thickness: 18. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-104)

Initial Displacement: 1.446 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 33.37 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 1.442E-5 cm/sec
y0 = 1.425 ft



RISING HEAD TEST RH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-104 RH1 HV.aqt
Date: 05/20/25 Time: 15:04:04

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-104
Test Date: 4/24/25

AQUIFER DATA

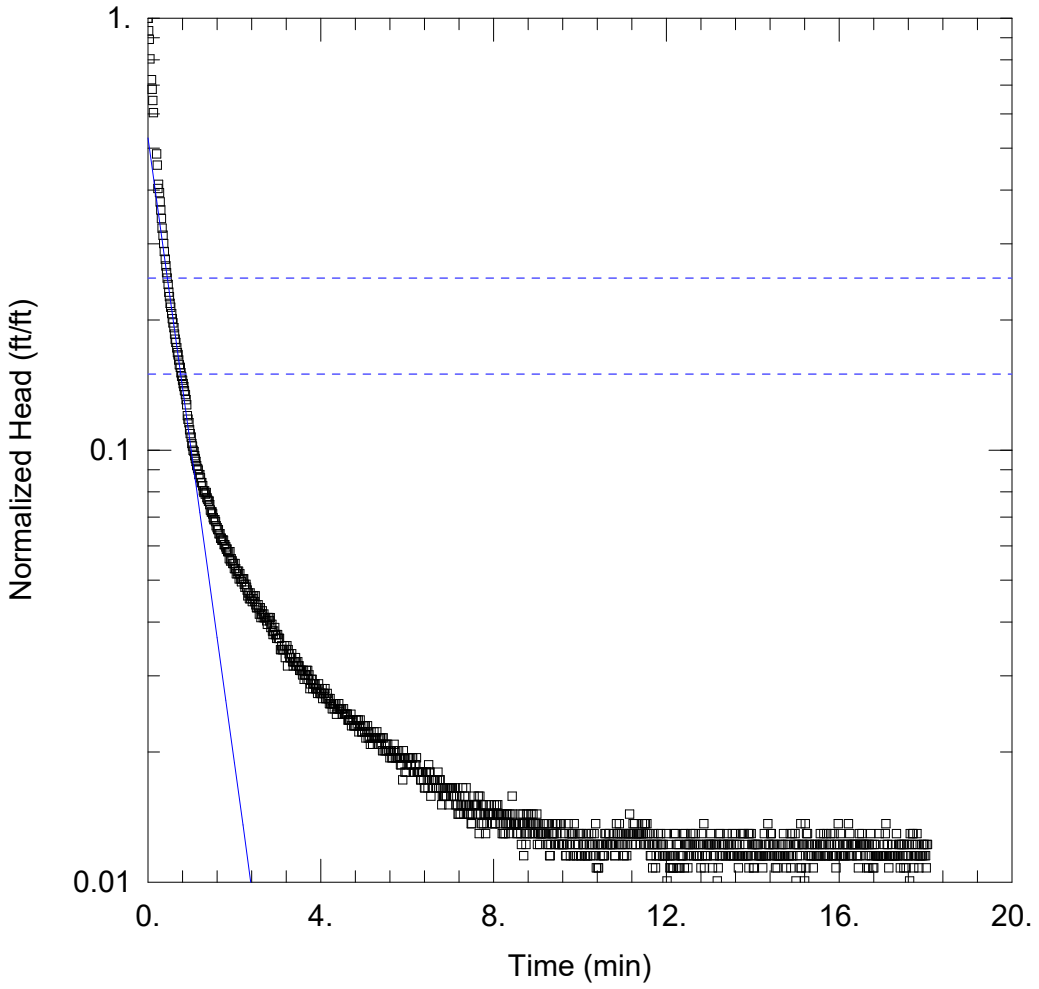
Saturated Thickness: 18. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-104)

Initial Displacement: 0.838 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 33.37 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 2.308E-6 cm/sec
y0 = 0.7942 ft



FALLING HEAD TEST FH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-105 FH1 HV.aqt
Date: 05/20/25 Time: 16:18:33

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-105
Test Date: 4/24/25

AQUIFER DATA

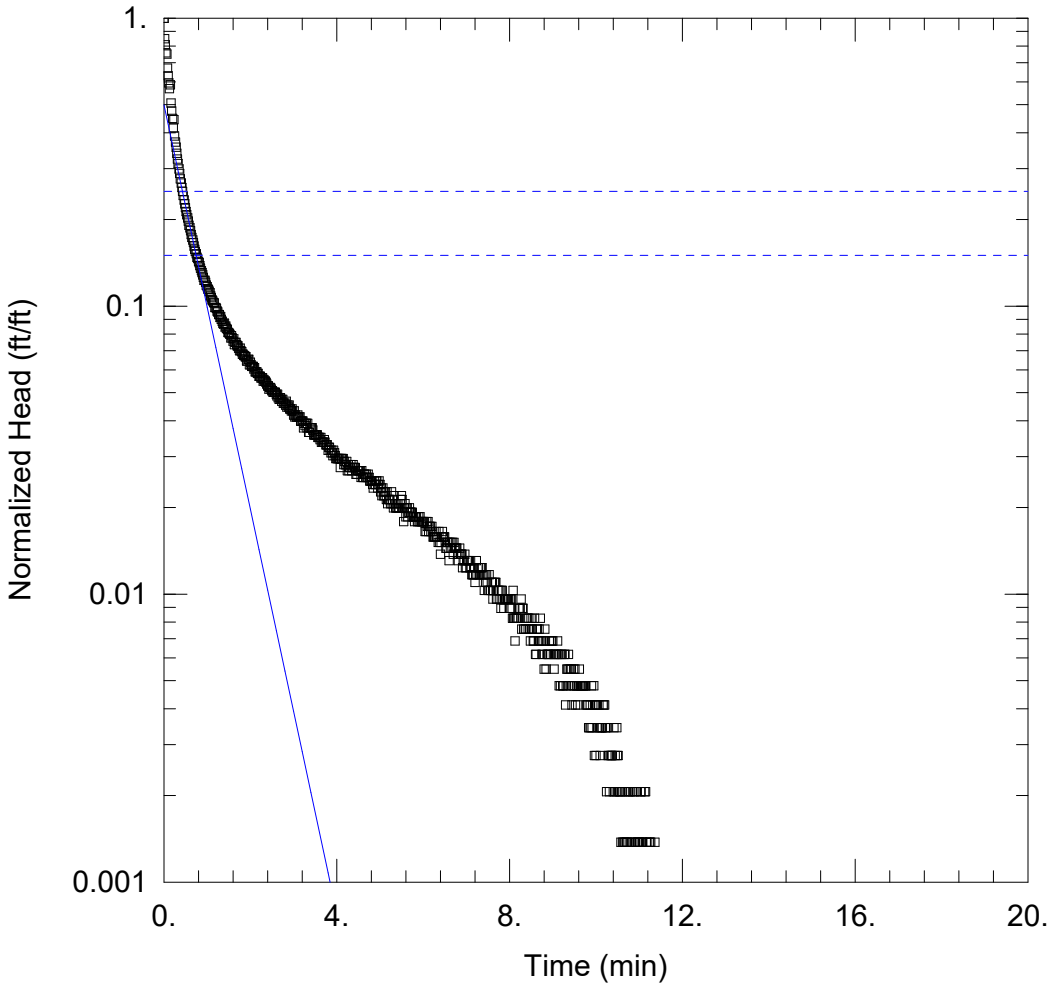
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001035

WELL DATA (BMW-105)

Initial Displacement: 1.391 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.17 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.002474 cm/sec
y0 = 0.7341 ft



FALLING HEAD TEST FH-2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-105 FH2 HV.aqt
Date: 05/20/25 Time: 17:10:05

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-105
Test Date: 4/24/25

AQUIFER DATA

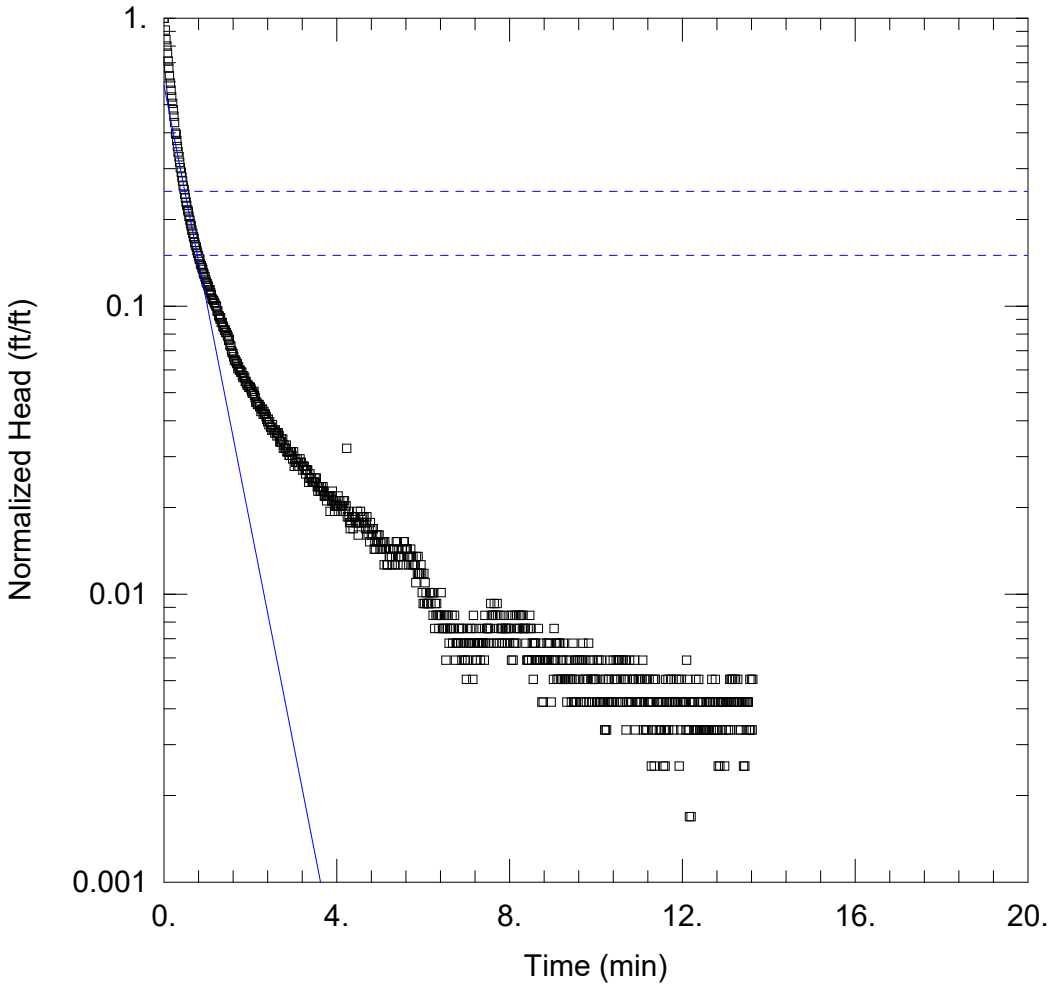
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-105)

Initial Displacement: 1.456 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.17 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.00216 cm/sec
y0 = 0.7272 ft



FALLING HEAD TEST FH-3

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-105 FH3 HV.aqt
Date: 05/21/25 Time: 08:44:23

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-105
Test Date: 4/24/25

AQUIFER DATA

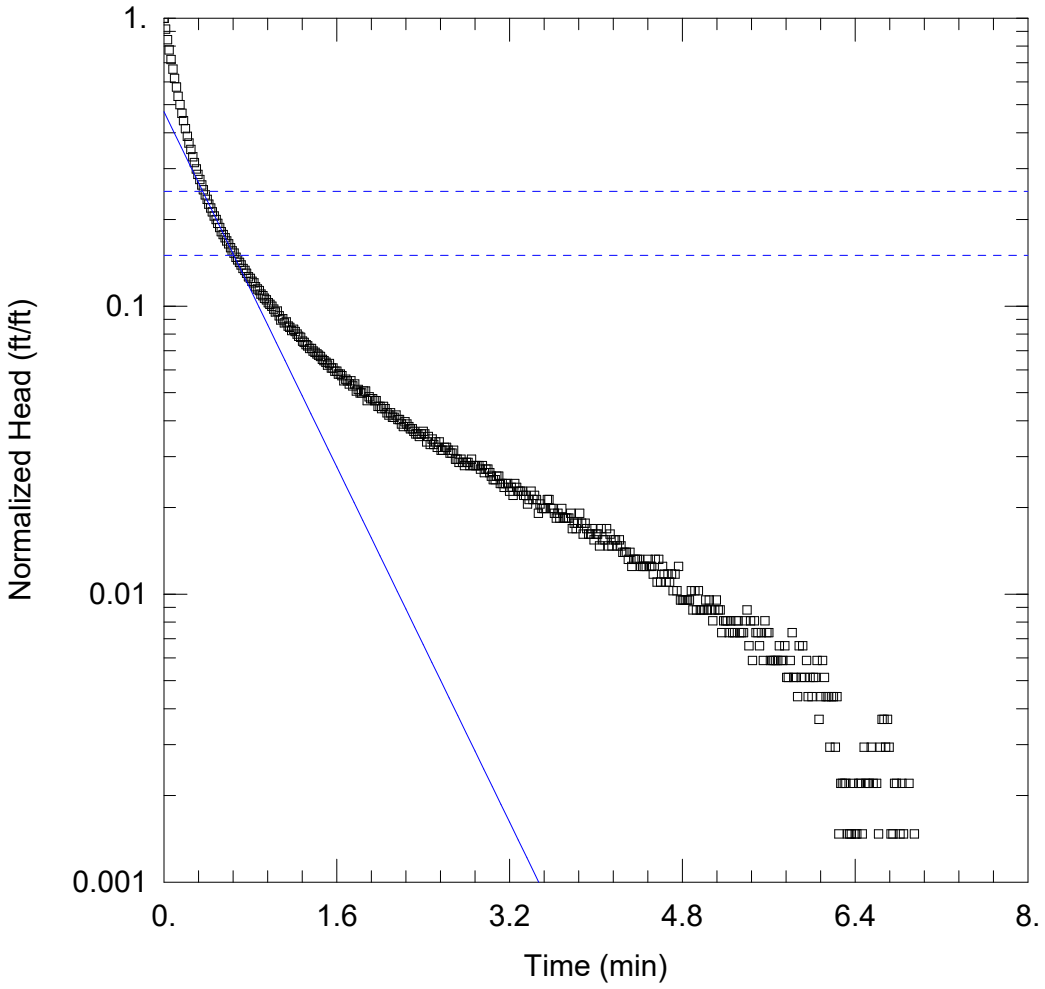
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-105)

Initial Displacement: 1.186 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.17 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.002349 cm/sec
y0 = 0.6915 ft



RISING HEAD TEST RH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-105 RH1 HV.aqt
Date: 05/20/25 Time: 16:45:56

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-105
Test Date: 4/24/25

AQUIFER DATA

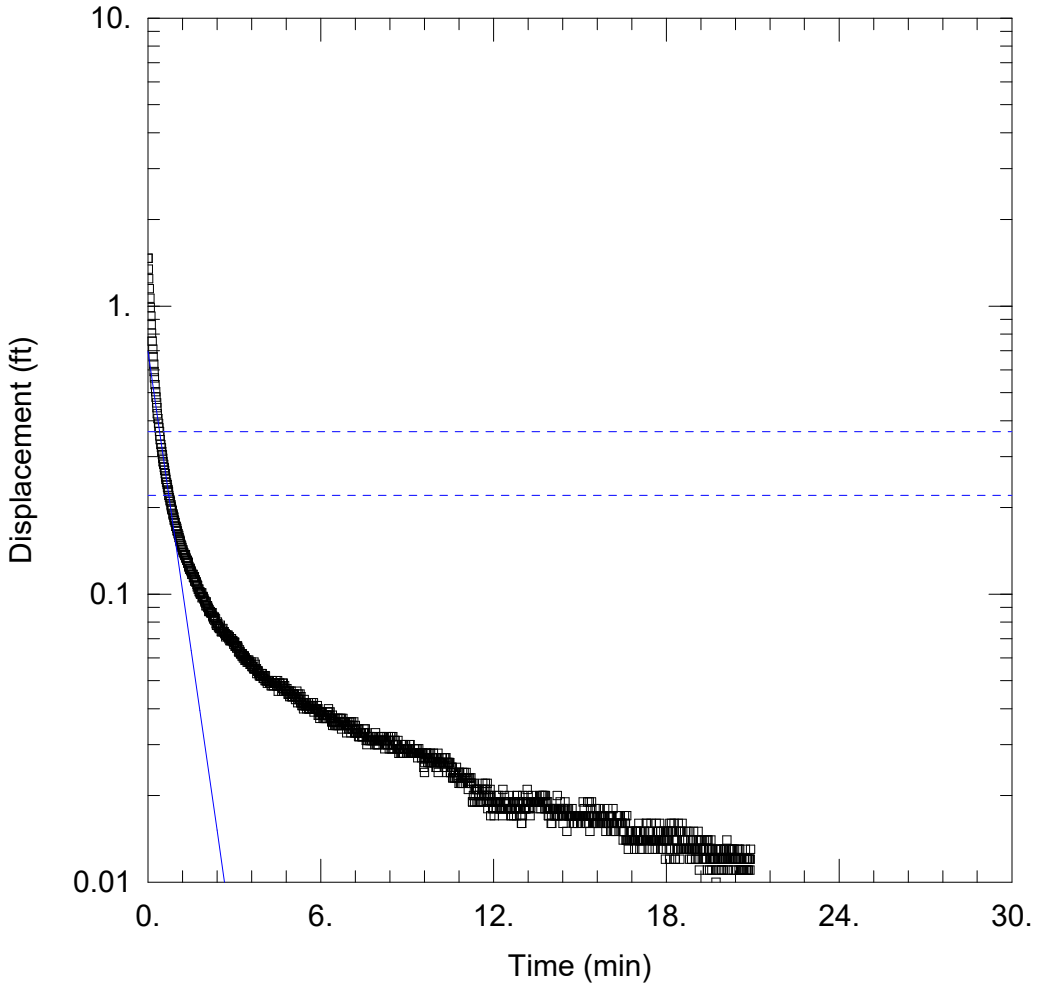
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-105)

Initial Displacement: 1.362 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.17 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0027 cm/sec
y0 = 0.6437 ft



RISING HEAD TEST RH-2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-105 RH2 HV.aqt
Date: 05/20/25 Time: 17:51:16

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-105
Test Date: 4/24/25

AQUIFER DATA

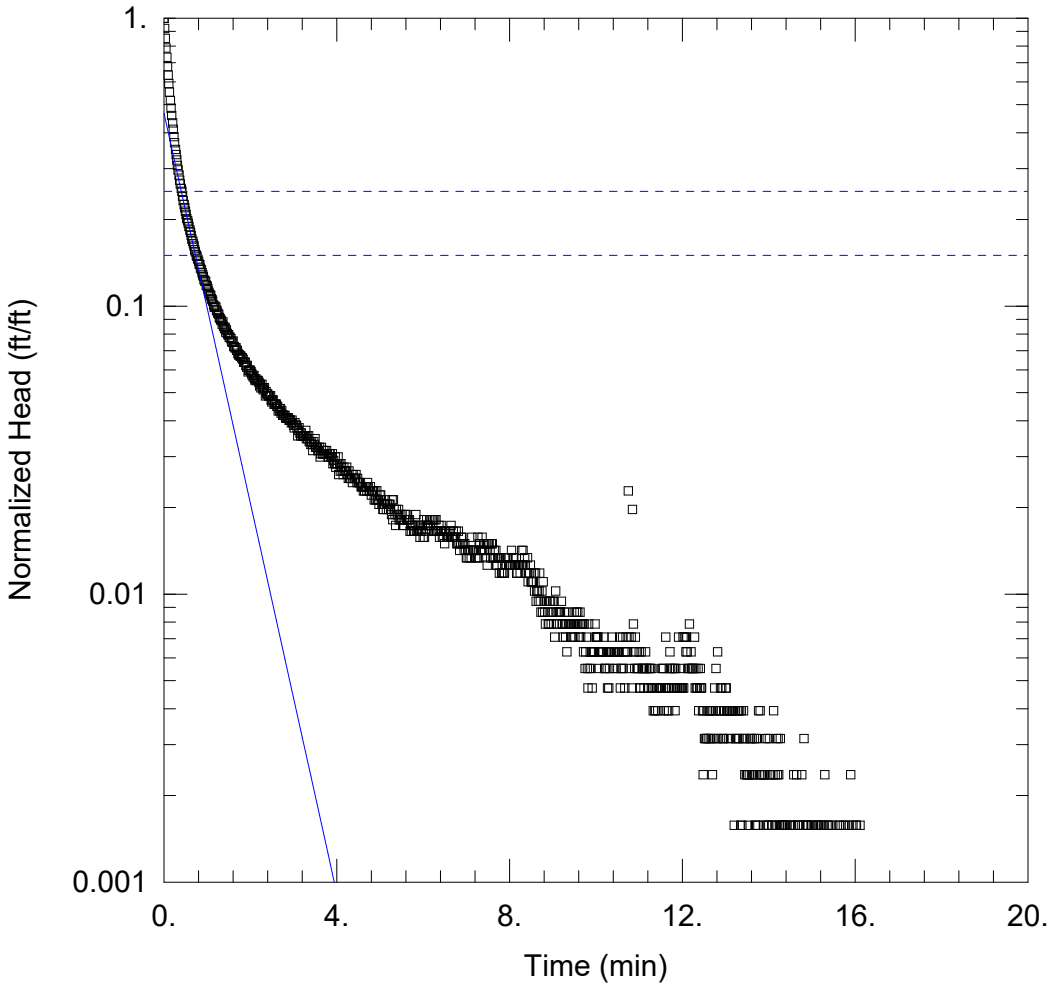
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-105)

Initial Displacement: 1.467 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.17 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.002131 cm/sec
y0 = 0.6959 ft



RISING HEAD TEST RH-3

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\BMW-105 RH3 HV.aqt
Date: 05/21/25 Time: 09:39:31

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: BMW-105
Test Date: 4/24/25

AQUIFER DATA

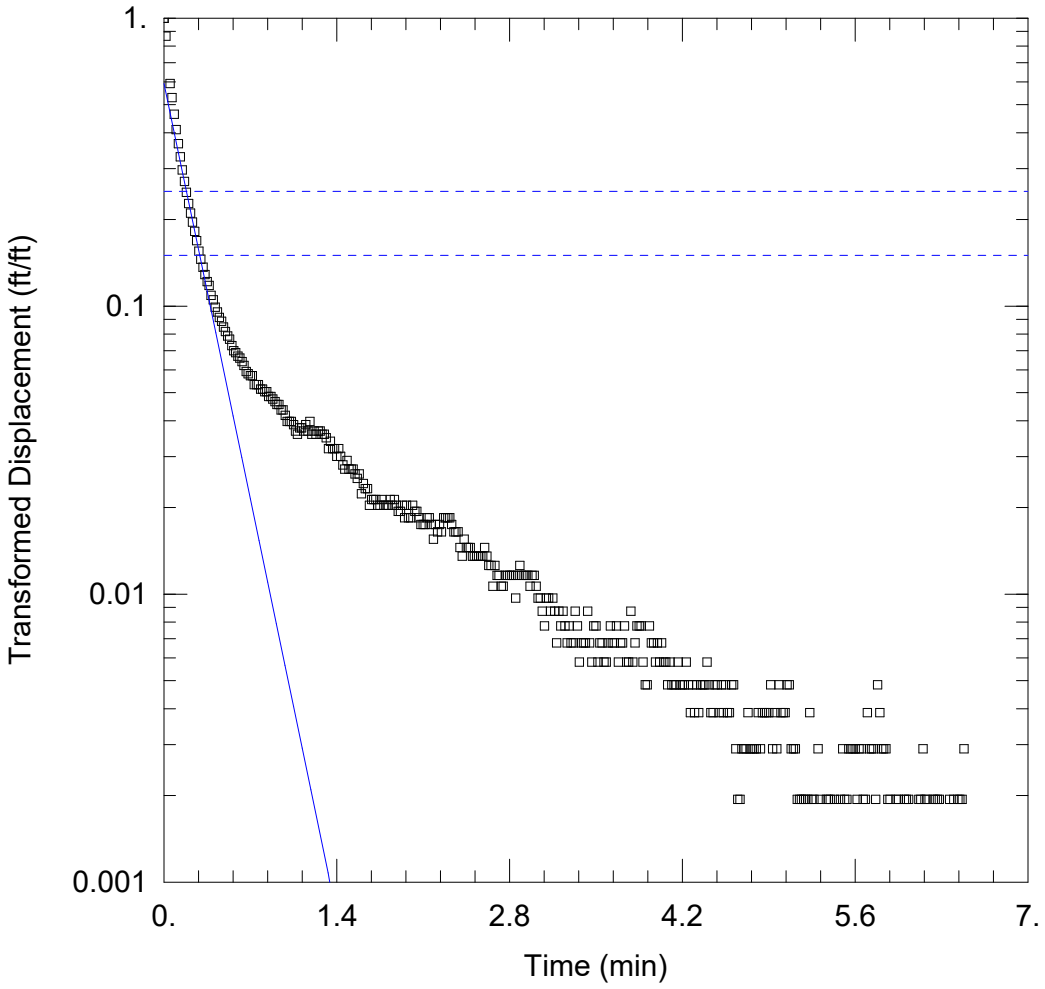
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA (BMW-105)

Initial Displacement: 1.27 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 29.17 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.002083 cm/sec
y0 = 0.5927 ft



FALLING HEAD TEST FH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-104 FH-1 dagan.aqt
Date: 05/23/25 Time: 12:00:17

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-104
Test Date: 4/23/25

AQUIFER DATA

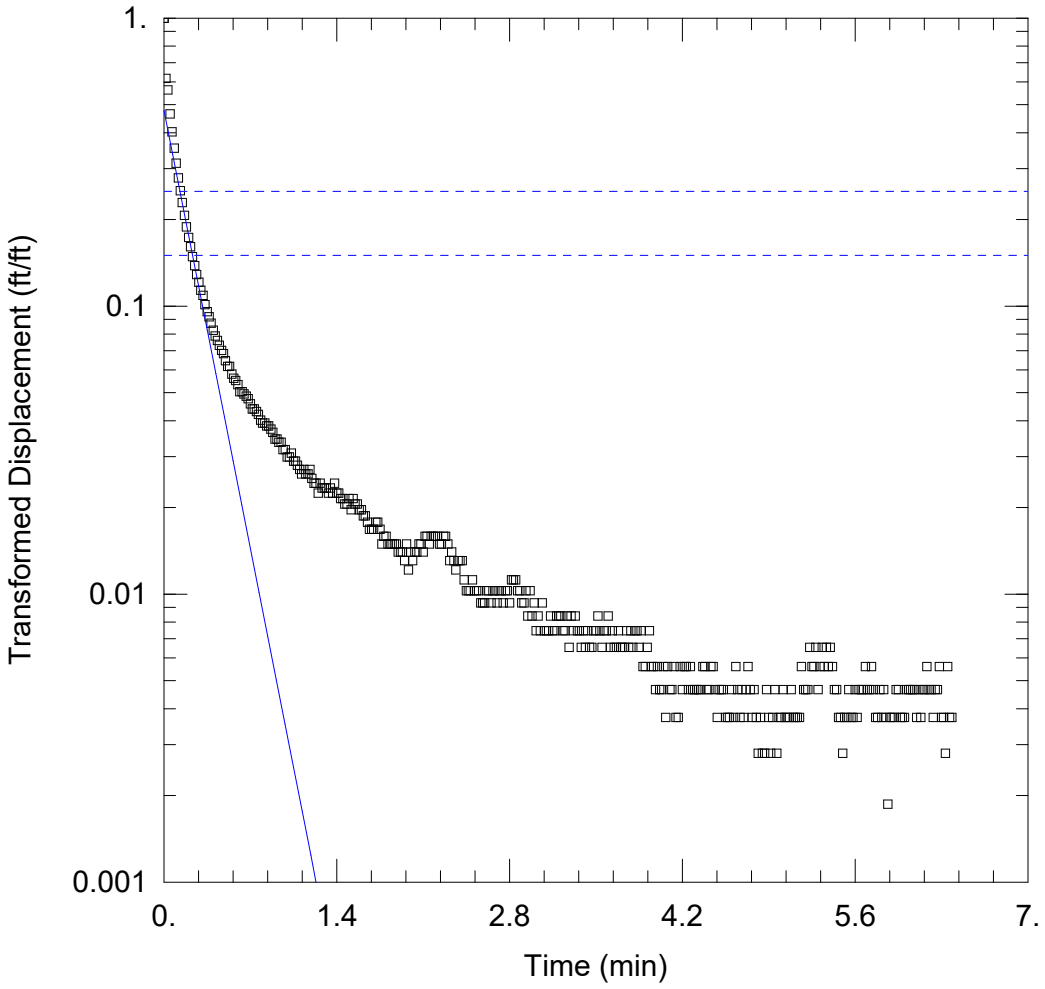
Saturated Thickness: 17.4 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-104)

Initial Displacement: 0.982 ft
Total Well Penetration Depth: 9.88 ft
Casing Radius: 0.083 ft
Static Water Column Height: 9.88 ft
Screen Length: 9.88 ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.007613 cm/sec
y0 = 0.5941 ft



FALLING HEAD TEST FH-2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-104 FH-2 Dagan.aqt
Date: 05/21/25 Time: 11:58:09

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-104
Test Date: 4/23/25

AQUIFER DATA

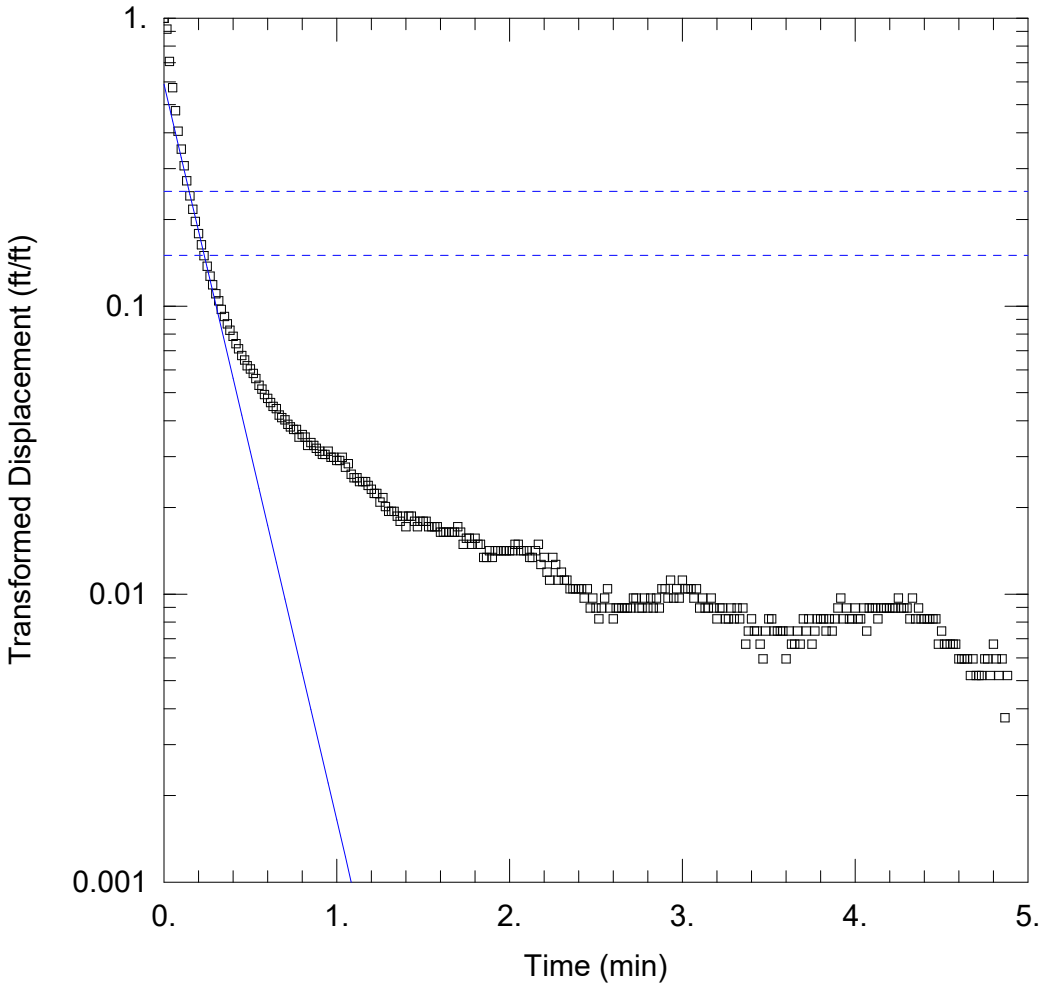
Saturated Thickness: 17.4 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-104)

Initial Displacement: 1.017 ft
Total Well Penetration Depth: 9.88 ft
Casing Radius: 0.083 ft
Static Water Column Height: 9.88 ft
Screen Length: 9.88 ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.007751 cm/sec
y0 = 0.4992 ft



RISING HEAD TEST RH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-104 RH-1 Dagan.aqt
Date: 05/23/25 Time: 12:01:31

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-104
Test Date: 4/23/25

AQUIFER DATA

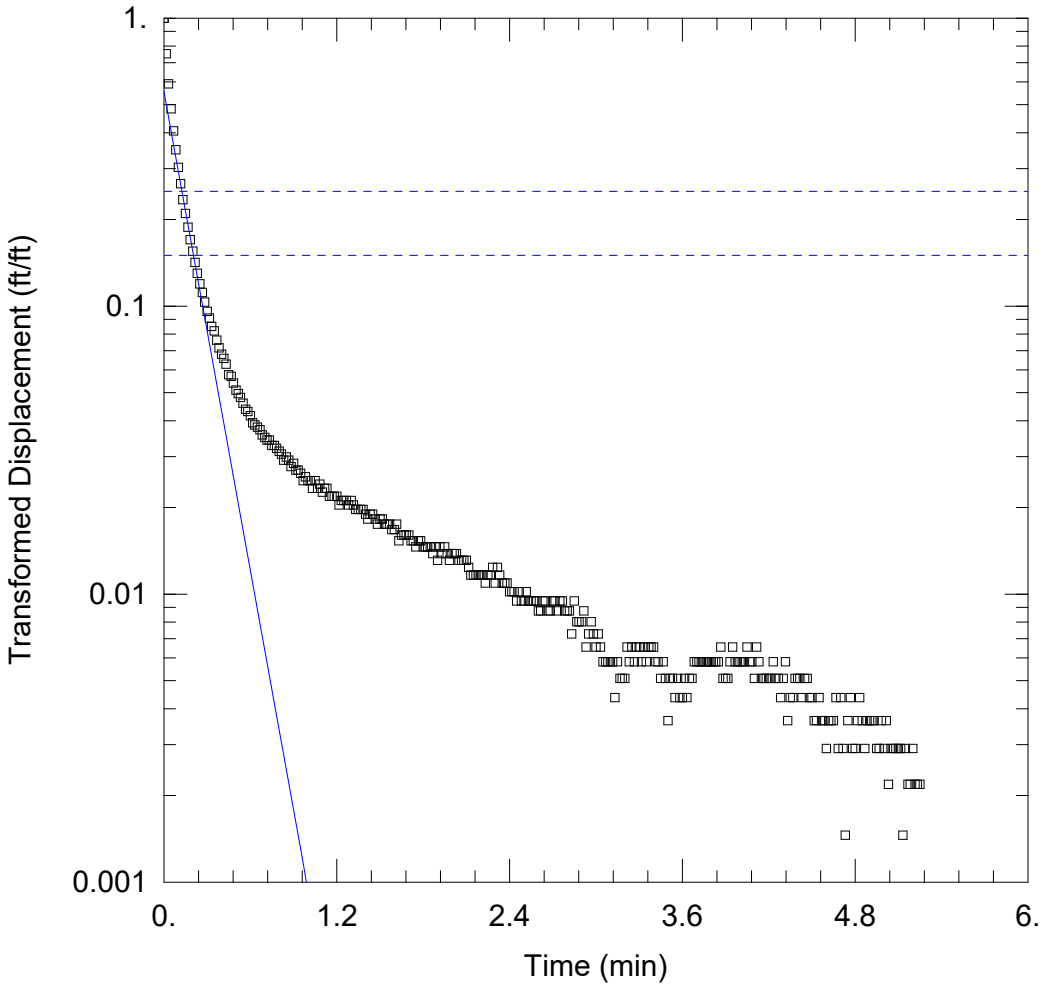
Saturated Thickness: 17.4 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-104)

Initial Displacement: 1.258 ft
Total Well Penetration Depth: 9.88 ft
Casing Radius: 0.083 ft
Static Water Column Height: 9.88 ft
Screen Length: 9.88 ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.007367 cm/sec
y0 = 0.7622 ft



RISING HEAD TEST RH-2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-104 RH-2 Dagan.aqt
Date: 05/21/25 Time: 12:22:50

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-104
Test Date: 4/23/25

AQUIFER DATA

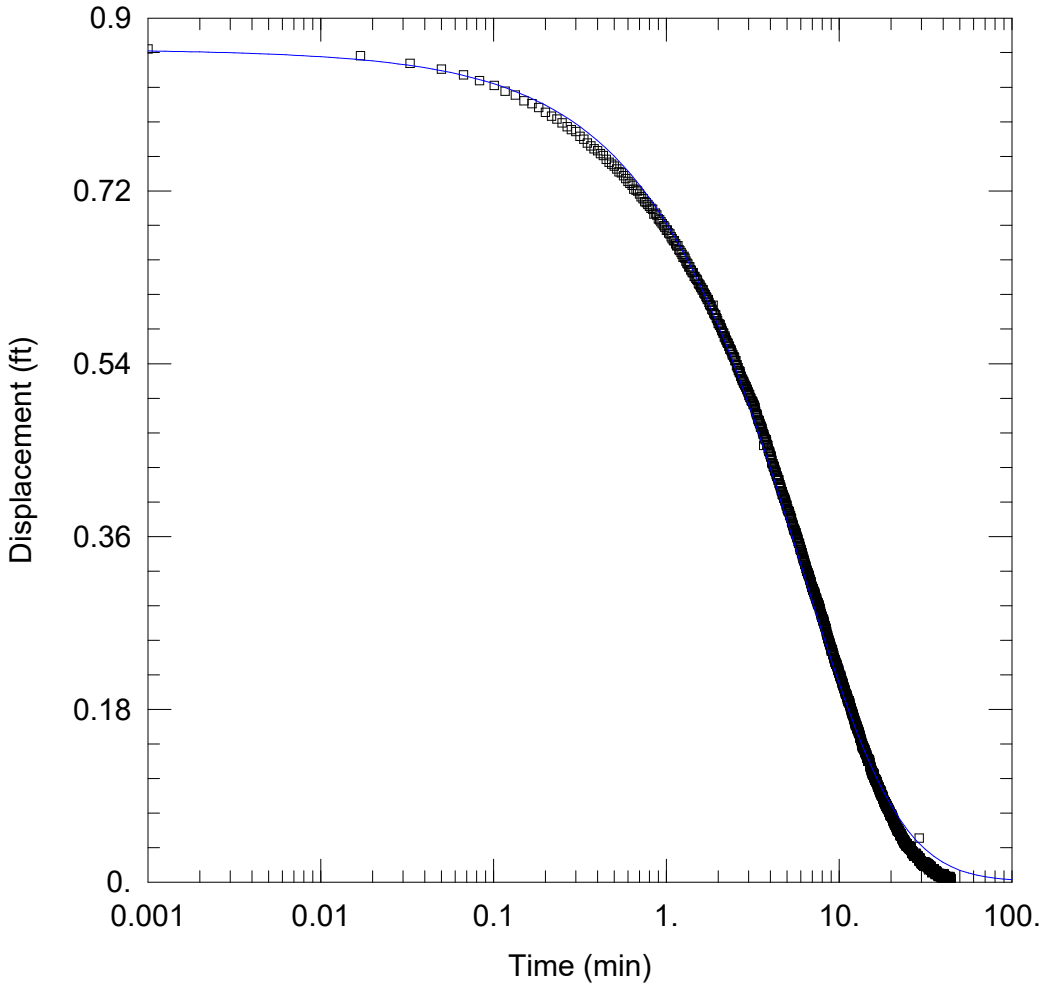
Saturated Thickness: 17.4 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-104)

Initial Displacement: 1.285 ft
Total Well Penetration Depth: 9.88 ft
Casing Radius: 0.083 ft
Static Water Column Height: 9.88 ft
Screen Length: 9.88 ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.00782 cm/sec
y0 = 0.733 ft



FALLING HEAD TEST FH1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-105- FH1 KGS.aqt
Date: 05/23/25 Time: 12:07:36

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-105
Test Date: 4/23/25

AQUIFER DATA

Saturated Thickness: 17.4 ft

WELL DATA (MW-105)

Initial Displacement: 0.868 ft
Total Well Penetration Depth: 10.43 ft
Casing Radius: 0.083 ft

Static Water Column Height: 10.43 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

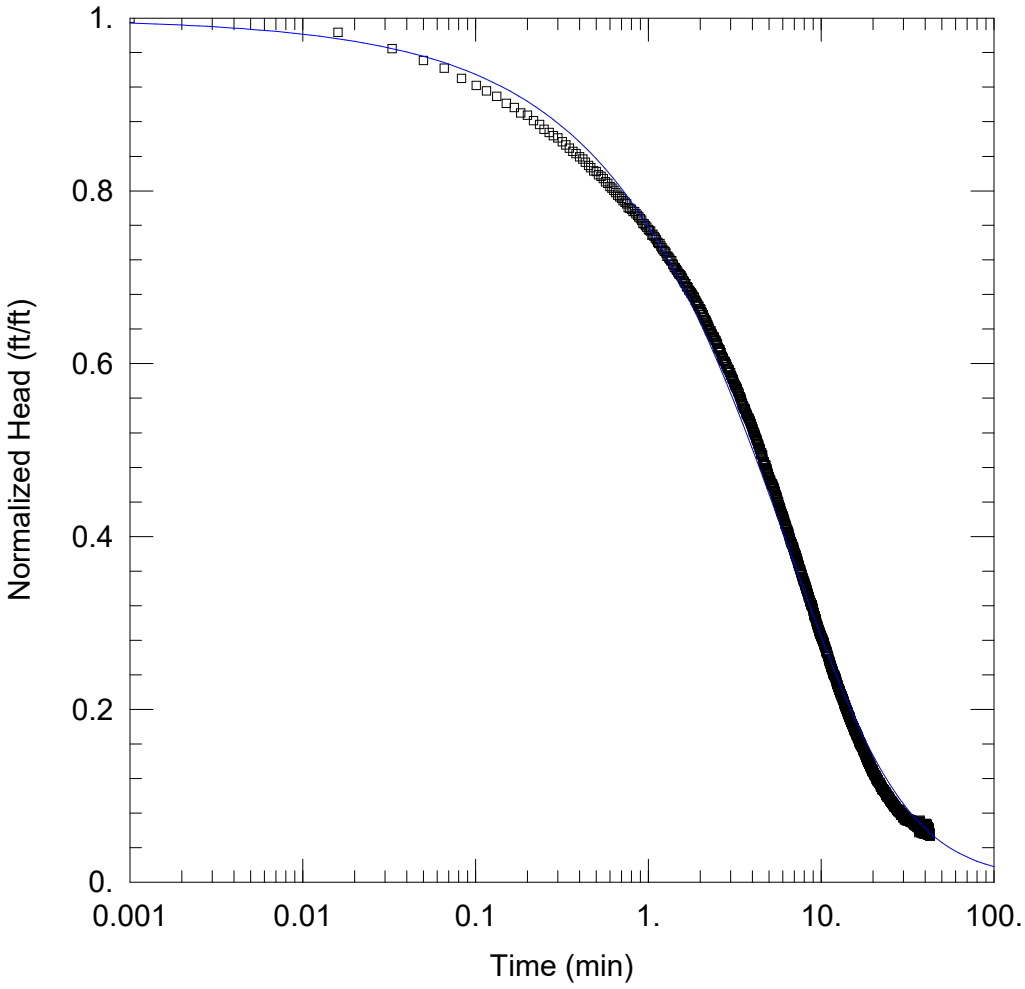
SOLUTION

Aquifer Model: Unconfined

Kr = 0.0001097 cm/sec
Kz/Kr = 1.

Solution Method: KGS Model

Ss = 0.0005482 ft^{-1}



RISING HEAD TEST RH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-105- RH1 KGS.aqt
Date: 05/21/25 Time: 13:44:35

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-105
Test Date: 4/23/25

AQUIFER DATA

Saturated Thickness: 17.4 ft

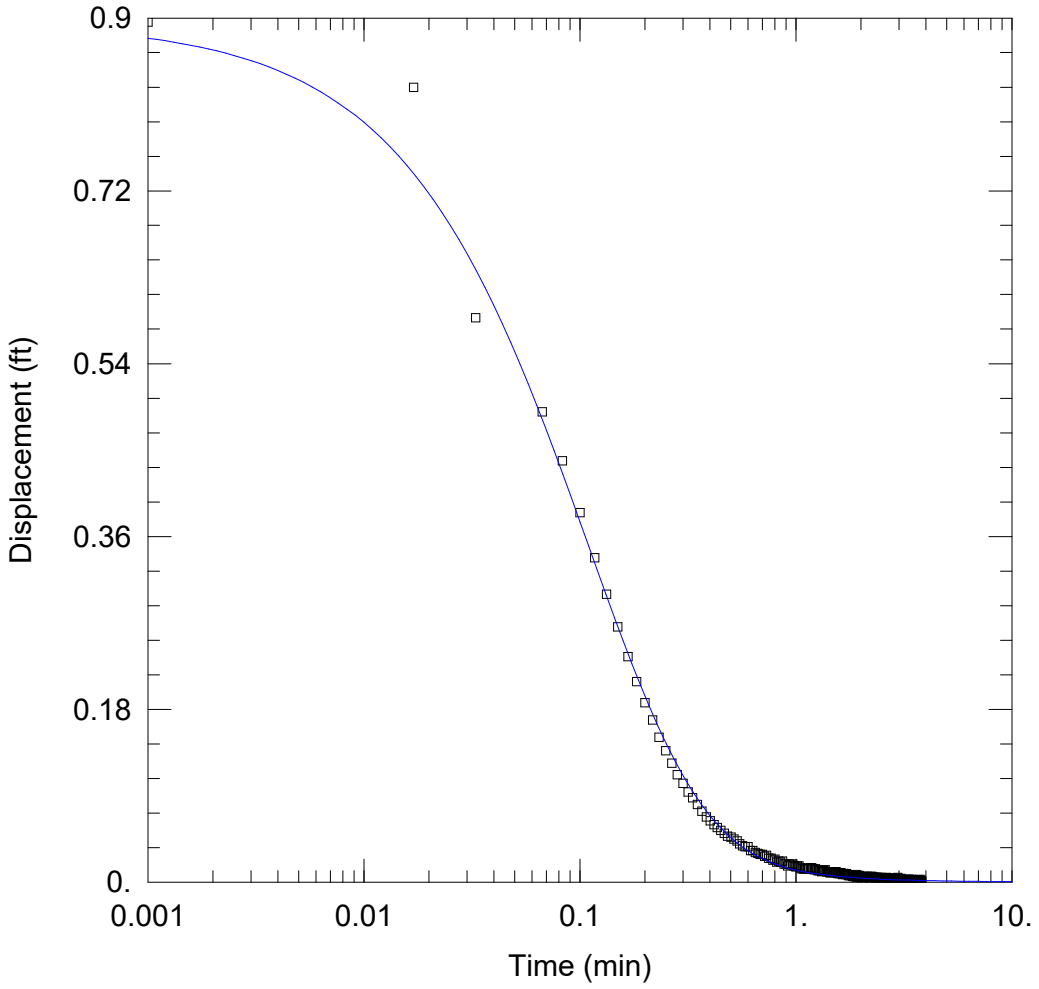
WELL DATA (MW-105)

Initial Displacement: 1.103 ft
Total Well Penetration Depth: 10.43 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.43 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 4.93E-5 cm/sec
Kz/Kr = 1.
Ss = 0.004295 ft^{-1}



FALLING HEAD TEST FH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-106 FH1 KGS.aqt
Date: 05/22/25 Time: 10:42:39

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-106
Test Date: 4/24/25

AQUIFER DATA

Saturated Thickness: 12. ft

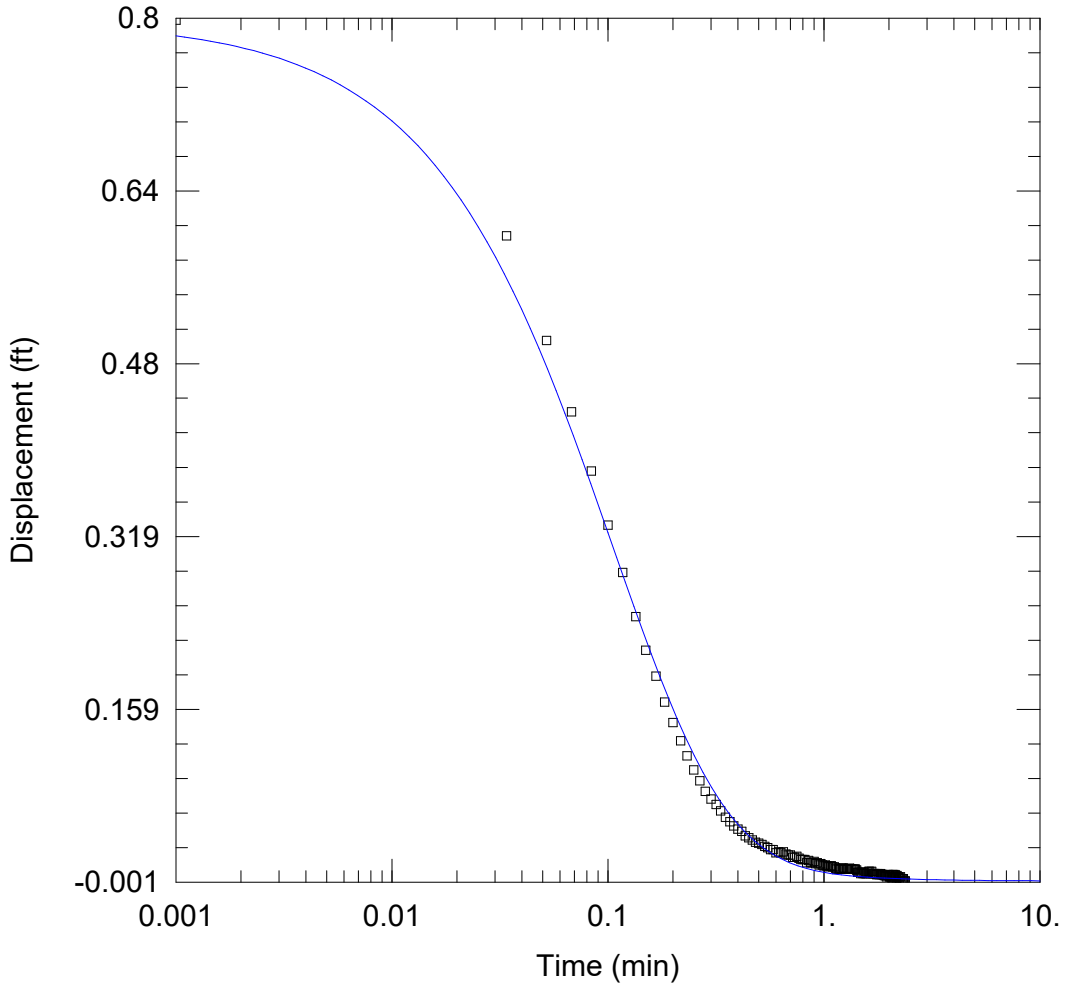
WELL DATA (MW-106)

Initial Displacement: 0.896 ft
Total Well Penetration Depth: 10.01 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.01 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.006201 cm/sec
Kz/Kr = 0.01
Ss = 3.58E-5 ft^{-1}



FALLING HEAD TEST FH-2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-106 FH2 KGS.aqt
Date: 05/22/25 Time: 11:48:33

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-106
Test Date: 4/24/25

AQUIFER DATA

Saturated Thickness: 12. ft

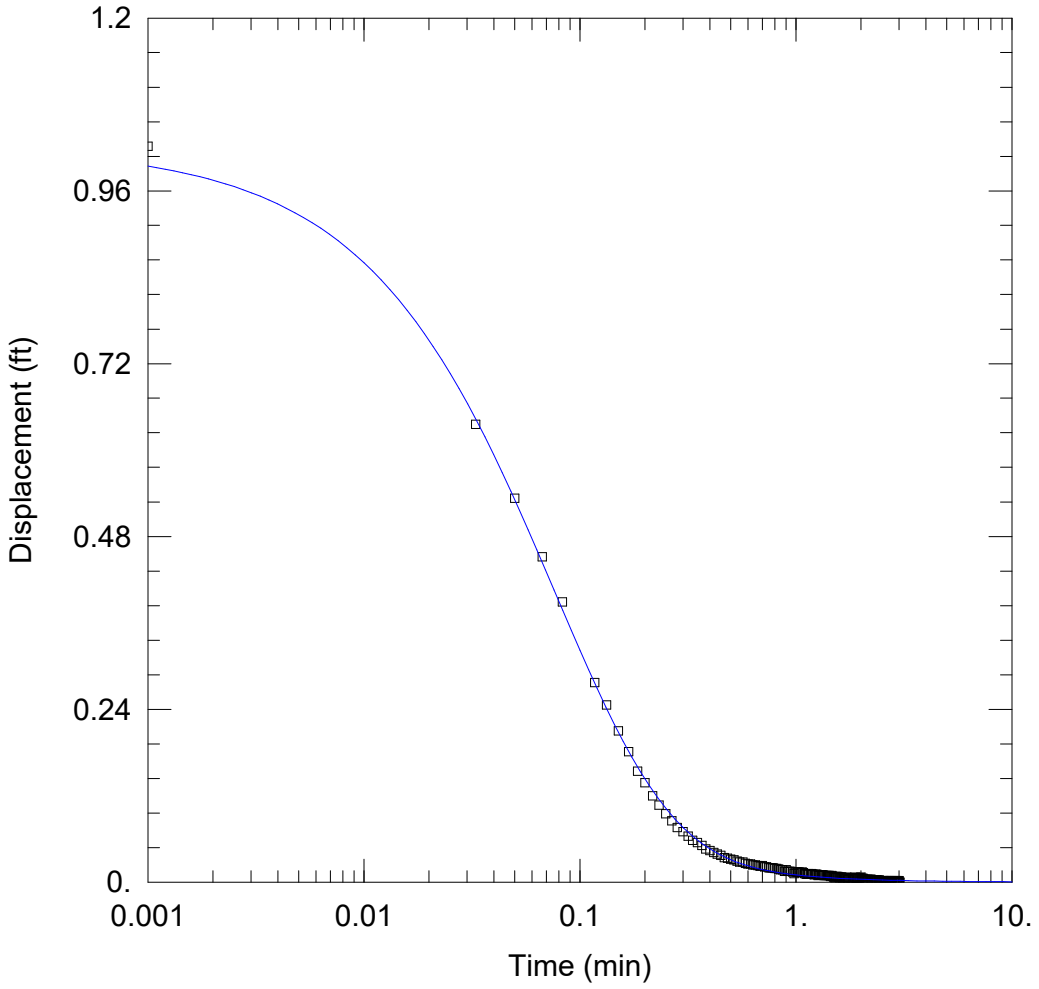
WELL DATA (MW-106)

Initial Displacement: 0.798 ft
Total Well Penetration Depth: 10.01 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.01 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.006991 cm/sec
Kz/Kr = 0.01
Ss = 1.78E-5 ft^{-1}



FALLING HEAD TEST FH-3

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-106 FH3 KGS.aqt
Date: 05/22/25 Time: 12:46:01

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-106
Test Date: 4/24/25

AQUIFER DATA

Saturated Thickness: 12. ft

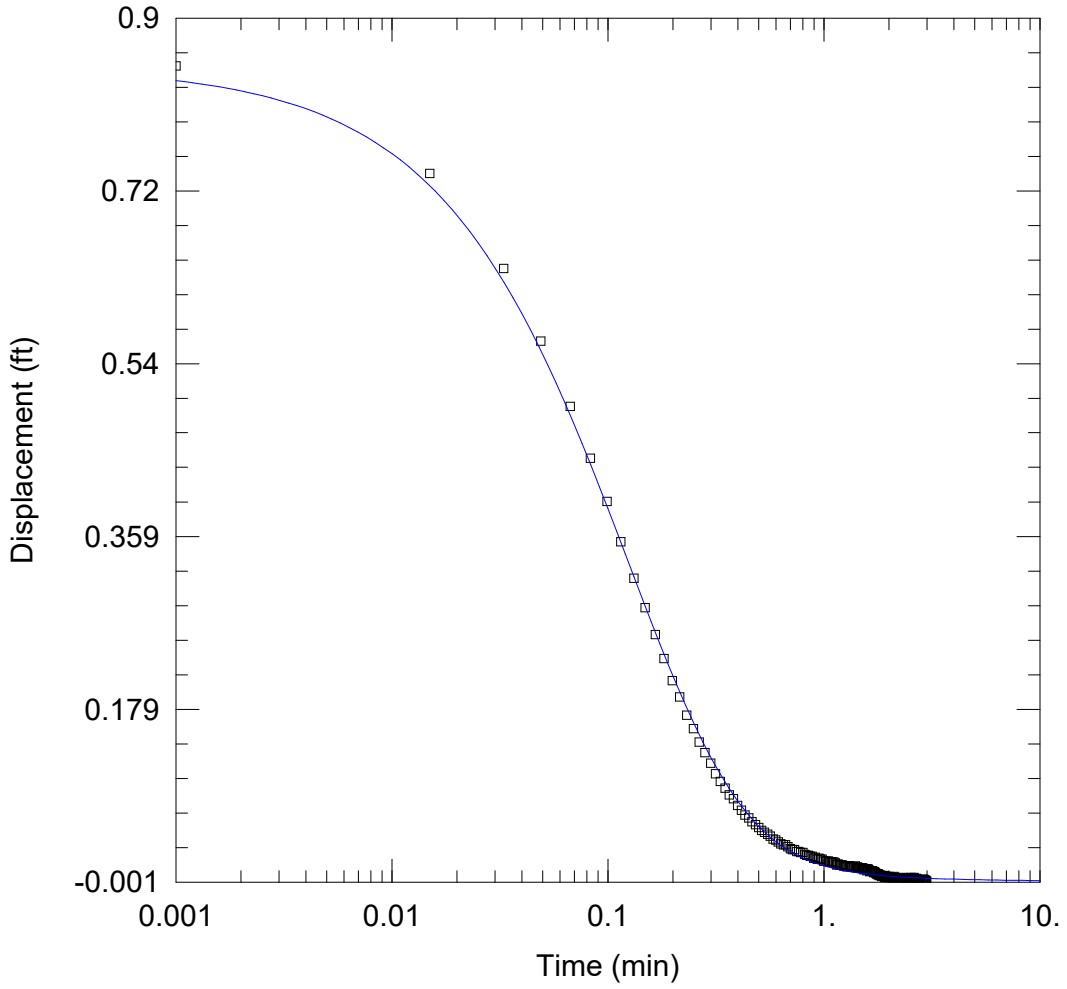
WELL DATA (MW-106)

Initial Displacement: 1.022 ft
Total Well Penetration Depth: 10.01 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.01 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.008104 cm/sec
Kz/Kr = 0.01
Ss = 7.101E-5 ft^{-1}



RISING HEAD TEST RH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-106 RH1 KGS.aqt
Date: 05/22/25 Time: 10:40:08

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-106
Test Date: 4/24/25

AQUIFER DATA

Saturated Thickness: 12. ft

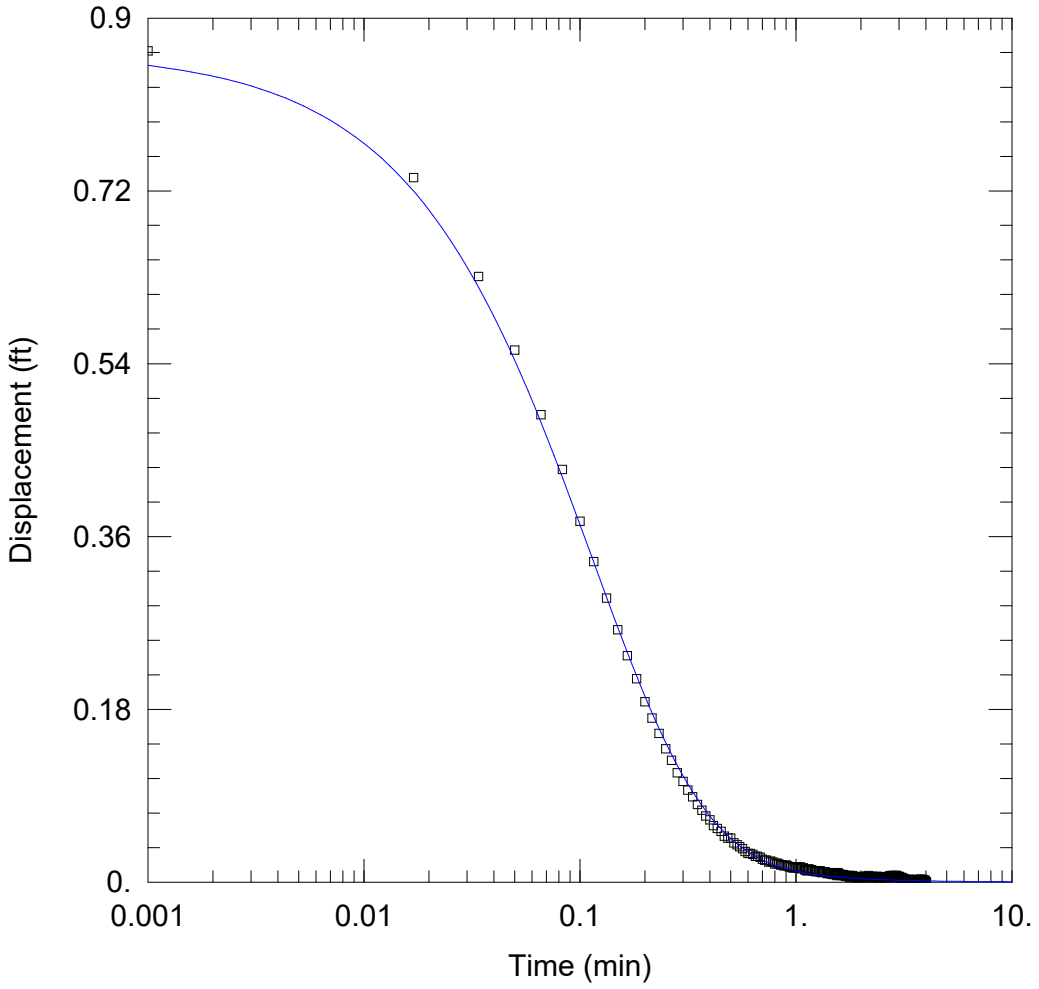
WELL DATA (MW-106)

Initial Displacement: 0.85 ft
Total Well Penetration Depth: 10.01 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.01 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.005292 cm/sec
Kz/Kr = 0.01
Ss = 4.738E-5 ft^{-1}



RISING HEAD TEST RH-2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-106 RH2 KGS.aqt
Date: 05/22/25 Time: 11:50:09

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-106
Test Date: 4/24/25

AQUIFER DATA

Saturated Thickness: 12. ft

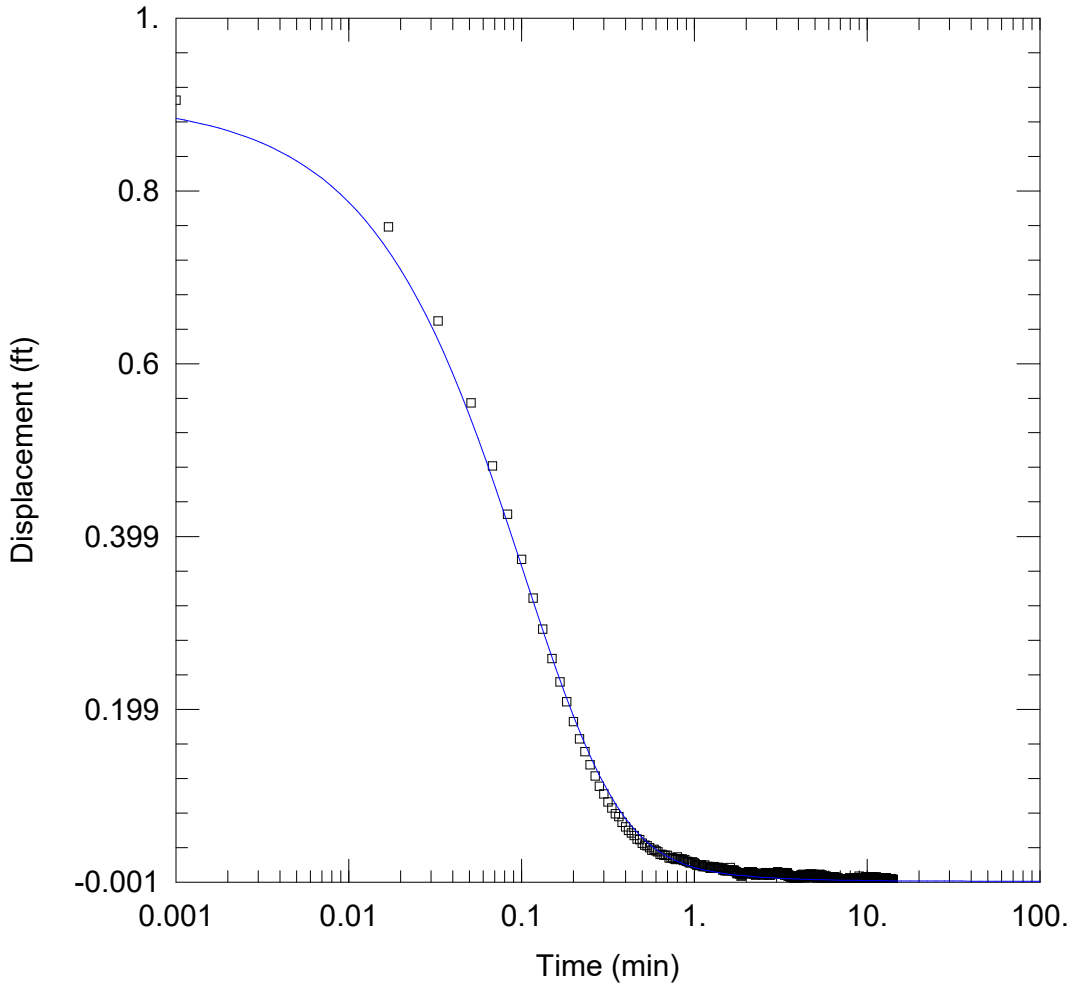
WELL DATA (MW-106)

Initial Displacement: 0.866 ft
Total Well Penetration Depth: 10.01 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.01 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.006233 cm/sec
Kz/Kr = 0.01
Ss = 2.463E-5 ft^{-1}



RISING HEAD TEST RH-3

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-106 RH3 KGS.aqt
Date: 05/22/25 Time: 13:17:48

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-106
Test Date: 4/24/25

AQUIFER DATA

Saturated Thickness: 12. ft

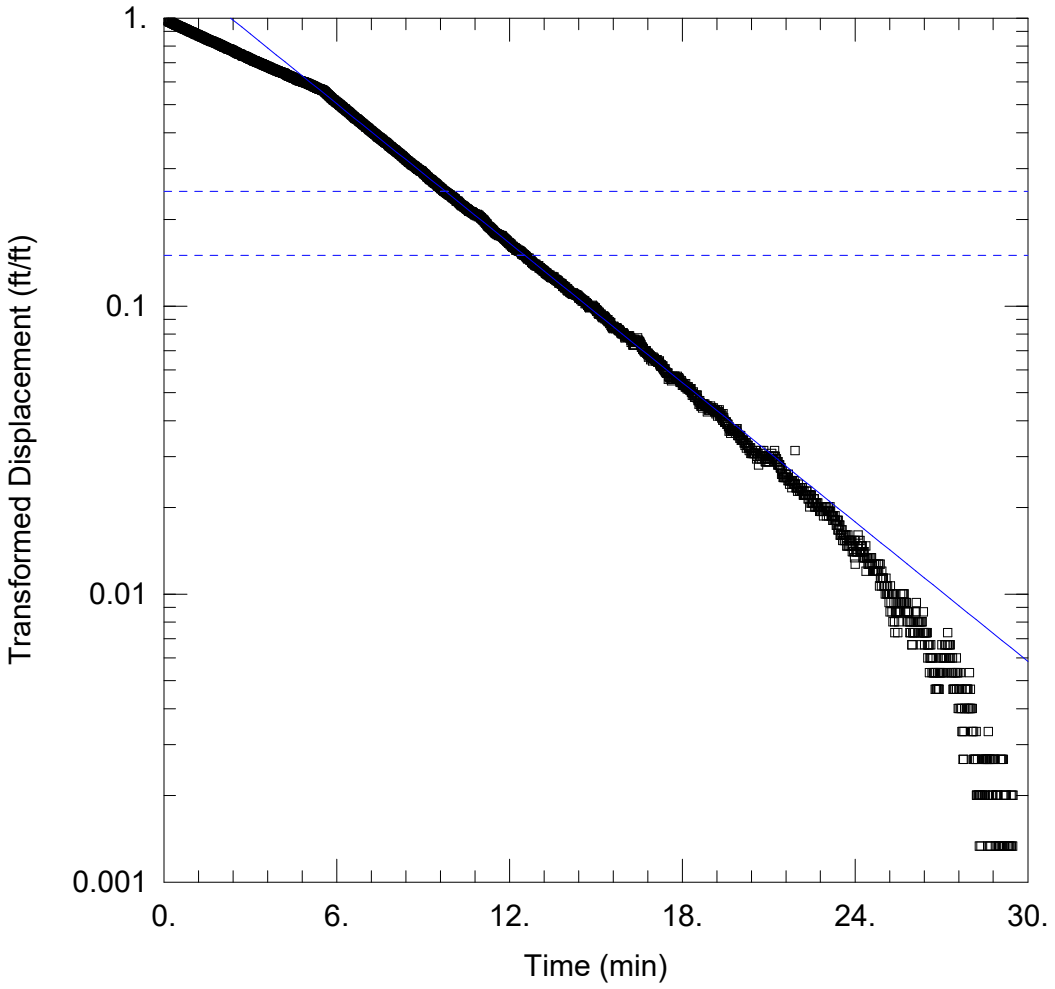
WELL DATA (MW-106)

Initial Displacement: 0.905 ft
Total Well Penetration Depth: 10.01 ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.01 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.005559 cm/sec
Kz/Kr = 0.01
Ss = 0.0001245 ft^{-1}



FALLING HEAD TEST FH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-301 FH Dagan.aqt
Date: 05/22/25 Time: 08:49:27

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-301
Test Date: 4/24/25

AQUIFER DATA

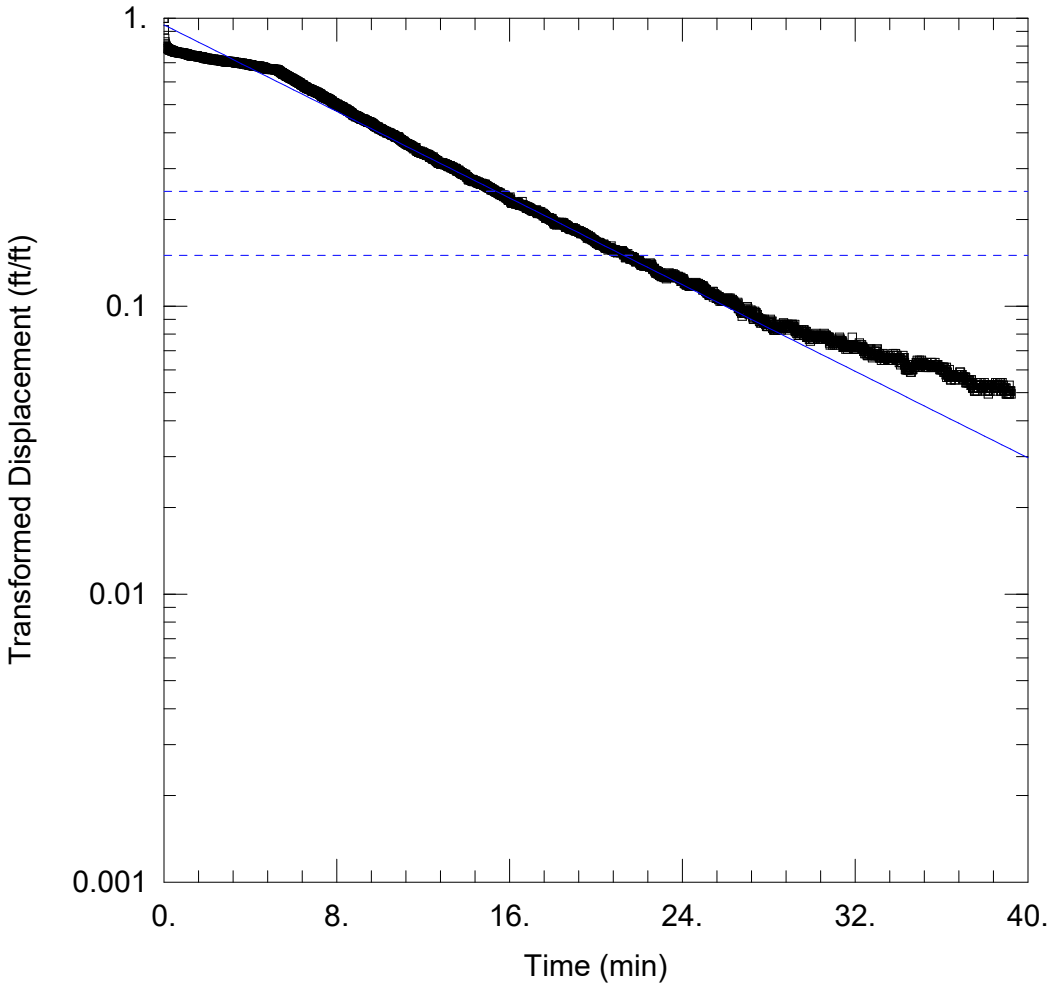
Saturated Thickness: 6.64 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-301)

Initial Displacement: 1.333 ft
Total Well Penetration Depth: 6.64 ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.64 ft
Screen Length: 6. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.0001872 cm/sec
y0 = 1.934 ft



RISING HEAD TEST RH-1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-301 RH Dagan.aqt
Date: 05/22/25 Time: 08:50:38

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-301
Test Date: 4/24/25

AQUIFER DATA

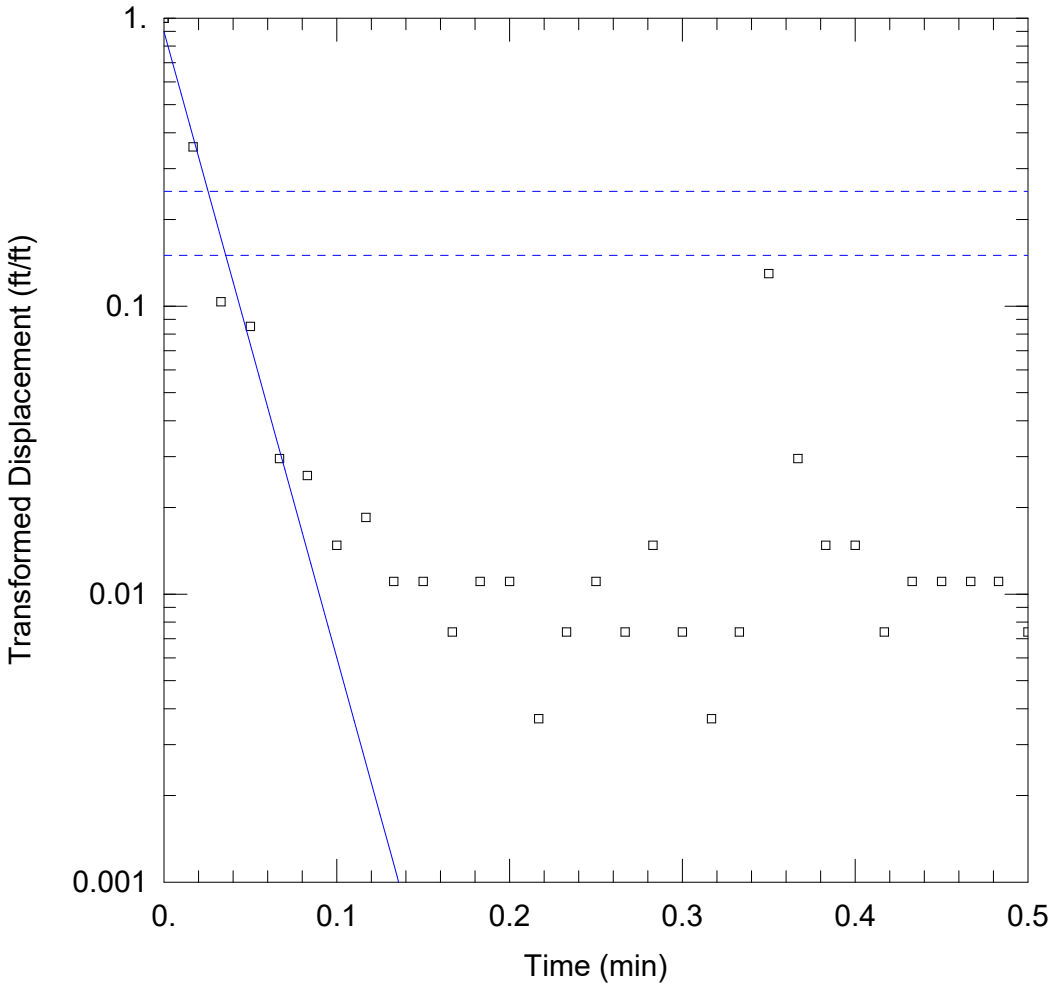
Saturated Thickness: 6.64 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-301)

Initial Displacement: 0.795 ft
Total Well Penetration Depth: 6.64 ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.64 ft
Screen Length: 6. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.0001732 cm/sec
y0 = 0.7555 ft



FALLING HEAD TEST FH1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-302 FH1 Dagan.aqt
Date: 05/22/25 Time: 16:07:40

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-302
Test Date: 4/24/25

AQUIFER DATA

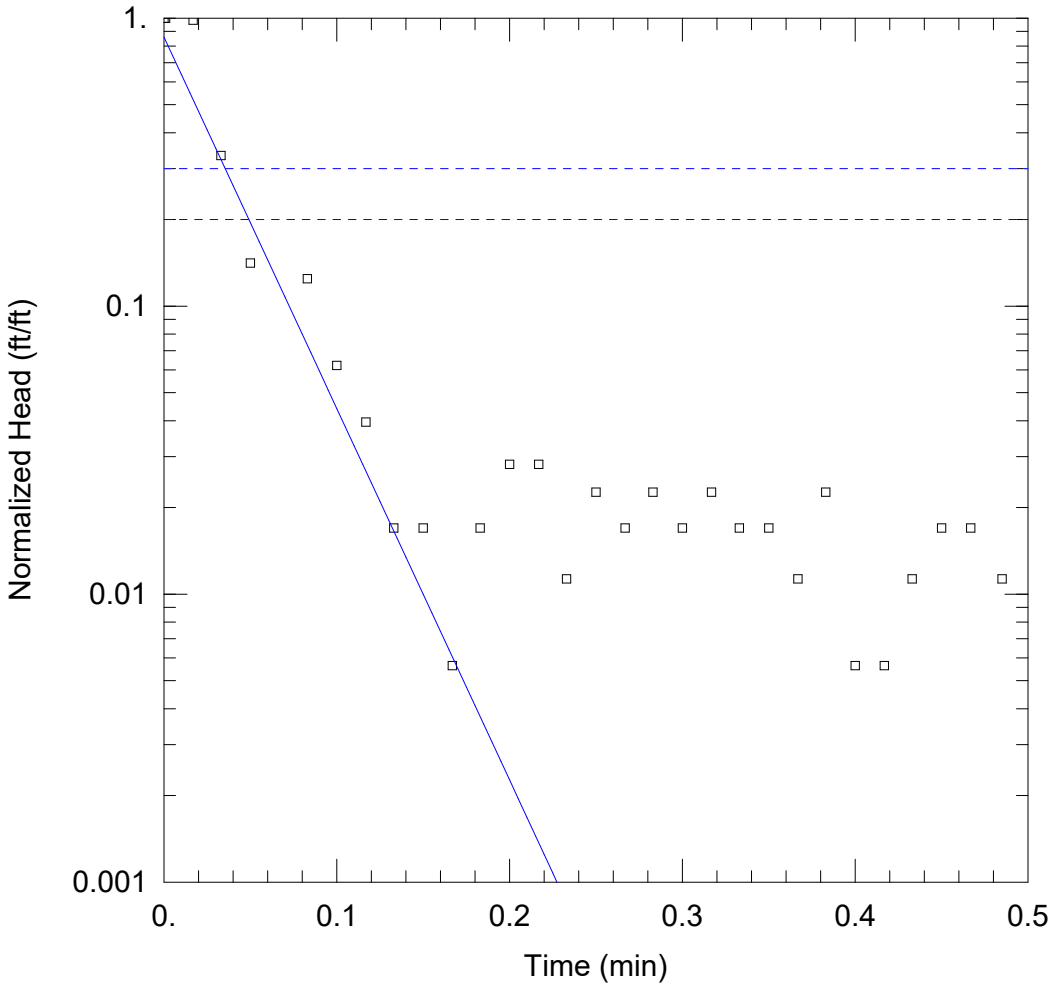
Saturated Thickness: 5.59 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-302)

Initial Displacement: 0.264 ft
Total Well Penetration Depth: 5.59 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.59 ft
Screen Length: 5. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.05765 cm/sec
y0 = 0.2376 ft



FALLING HEAD TEST FH3

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-302 FH3 BR.aqt
Date: 05/22/25 Time: 15:46:54

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-302
Test Date: 4/24/25

AQUIFER DATA

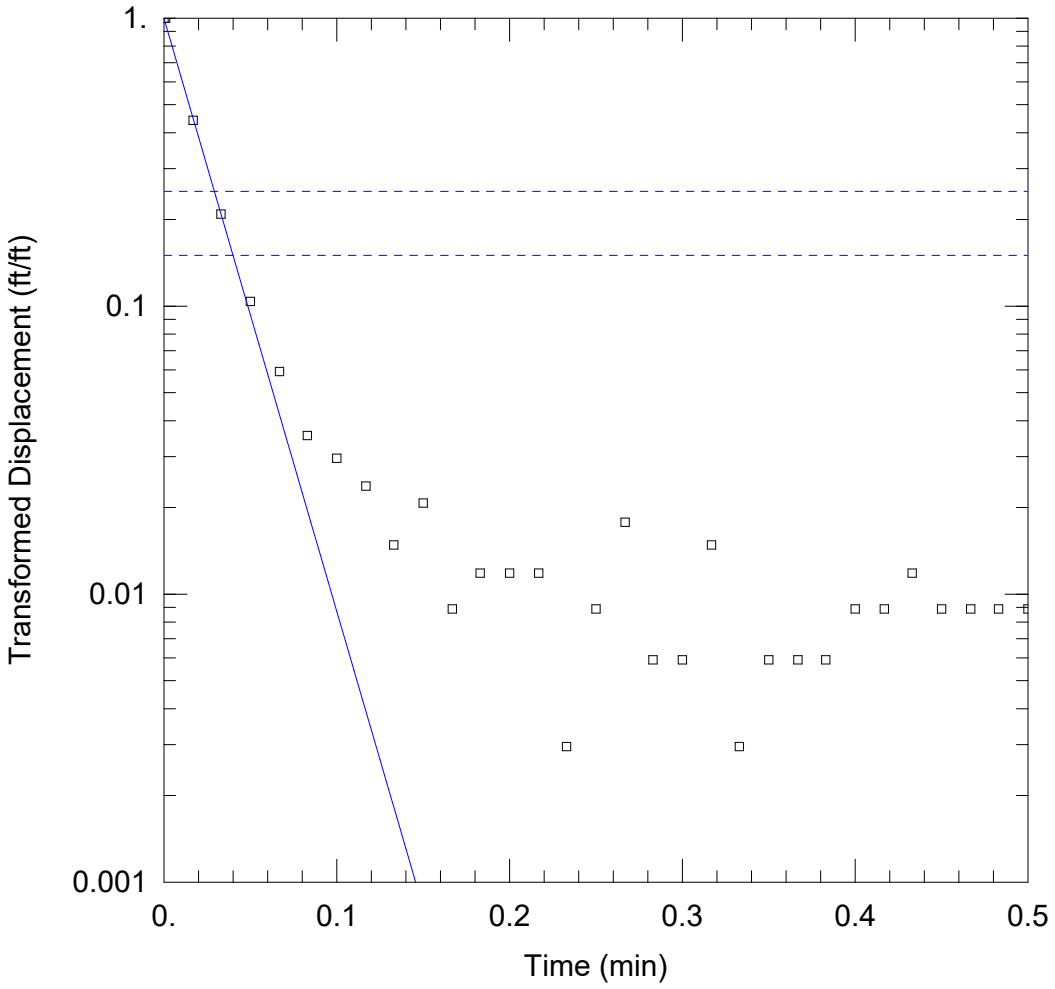
Saturated Thickness: 5.63 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-302)

Initial Displacement: 0.177 ft
Total Well Penetration Depth: 5.63 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.63 ft
Screen Length: 5. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.05141 cm/sec
y0 = 0.1521 ft



RISING HEAD TEST RH1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-302 RH1 Dagan.aqt
Date: 05/22/25 Time: 16:13:24

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-302
Test Date: 4/24/25

AQUIFER DATA

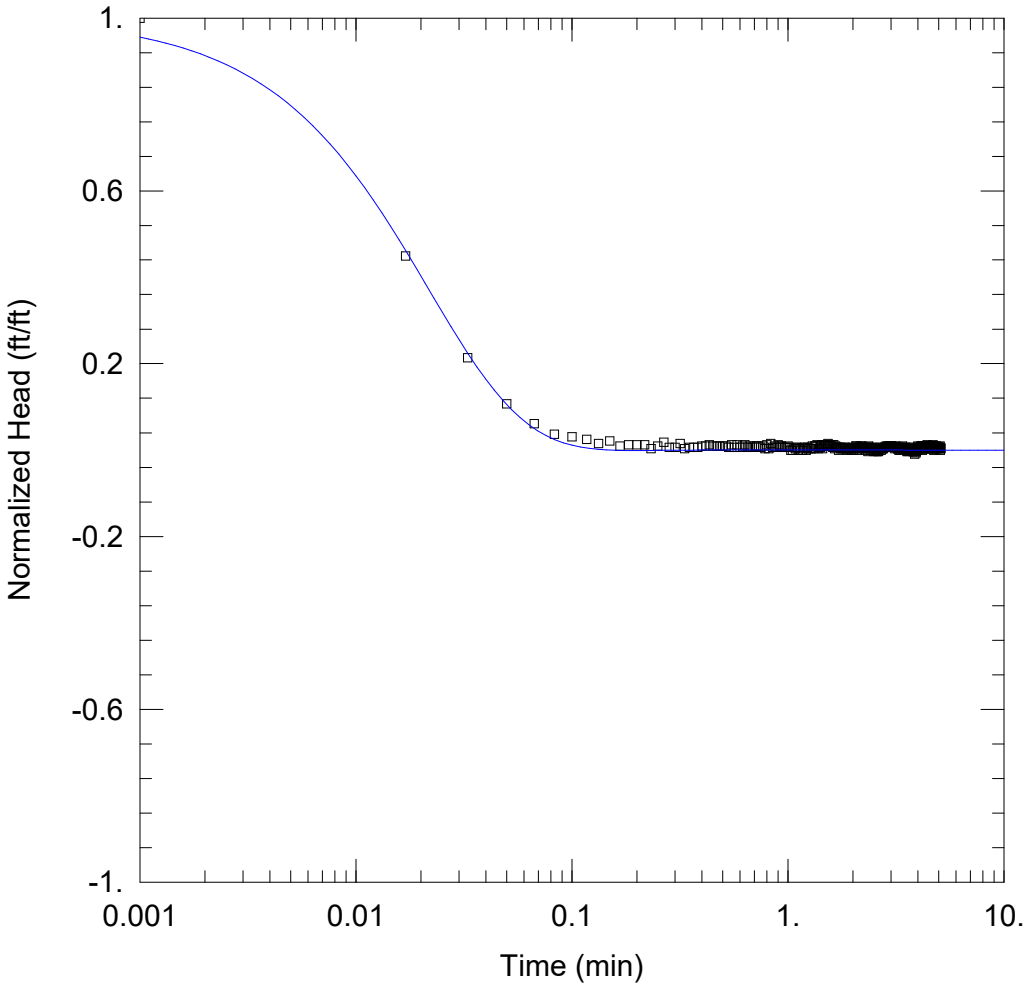
Saturated Thickness: 5.6 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-302)

Initial Displacement: 0.327 ft
Total Well Penetration Depth: 5.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.6 ft
Screen Length: 5. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.05457 cm/sec
y0 = 0.3261 ft



RISING HEAD TEST RH1

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-302 RH1 KGS.aqt
Date: 05/22/25 Time: 14:10:49

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-302
Test Date: 4/24/25

AQUIFER DATA

Saturated Thickness: 5.6 ft

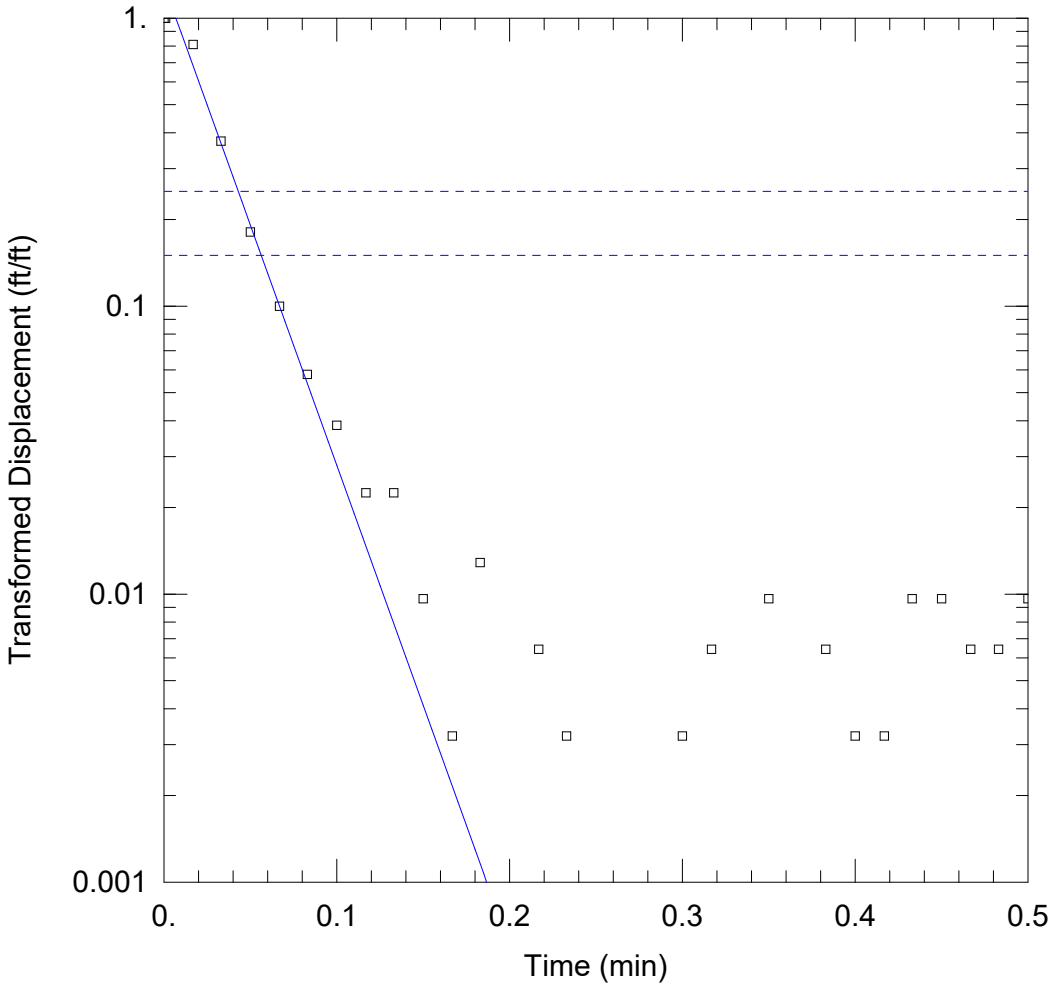
WELL DATA (MW-302)

Initial Displacement: 0.327 ft
Total Well Penetration Depth: 5.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.6 ft
Screen Length: 5. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: KGS Model

Kr = 0.05457 cm/sec
Kz/Kr = 1.
Ss = 1.786E-11 ft^{-1}



RISING HEAD TEST RH2

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\Final Plots\MW-302 RH2 Dagan.aqt
Date: 05/22/25 Time: 16:14:44

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-302
Test Date: 4/24/25

AQUIFER DATA

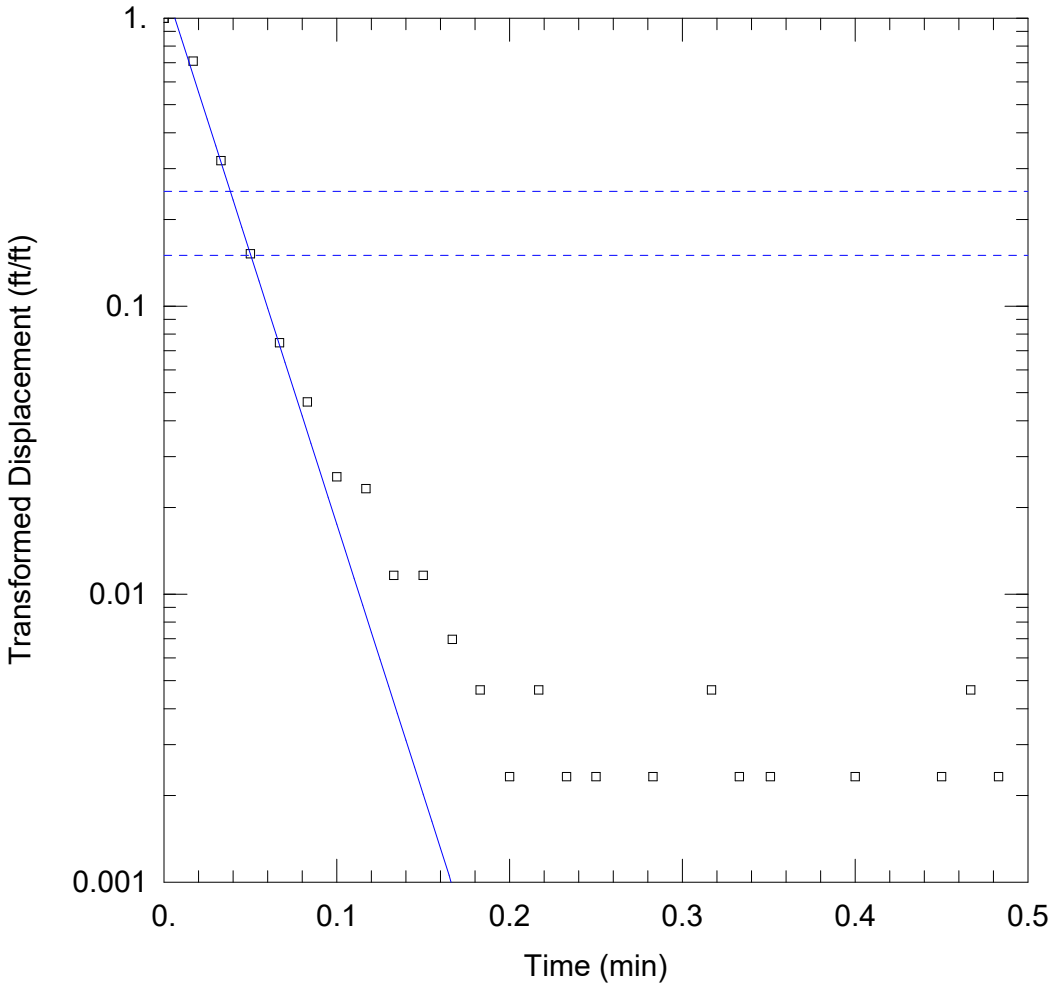
Saturated Thickness: 5.6 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-302)

Initial Displacement: 0.302 ft
Total Well Penetration Depth: 5.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.6 ft
Screen Length: 5. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.04418 cm/sec
y0 = 0.3896 ft



RISING HEAD TEST RH3

Data Set: S:\ENV RMD Projects\NYSDEC Dutchess Cty FTA\MW-302 RH3 Dagan.aqt
Date: 05/22/25 Time: 16:33:24

PROJECT INFORMATION

Company: TRC
Client: NYSDEC
Project: 453208.0000
Location: Dutchess County FTA
Test Well: MW-302
Test Date: 4/24/25

AQUIFER DATA

Saturated Thickness: 5.6 ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-302)

Initial Displacement: 0.413 ft
Total Well Penetration Depth: 5.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 5.6 ft
Screen Length: 5. ft
Well Radius: 0.083 ft

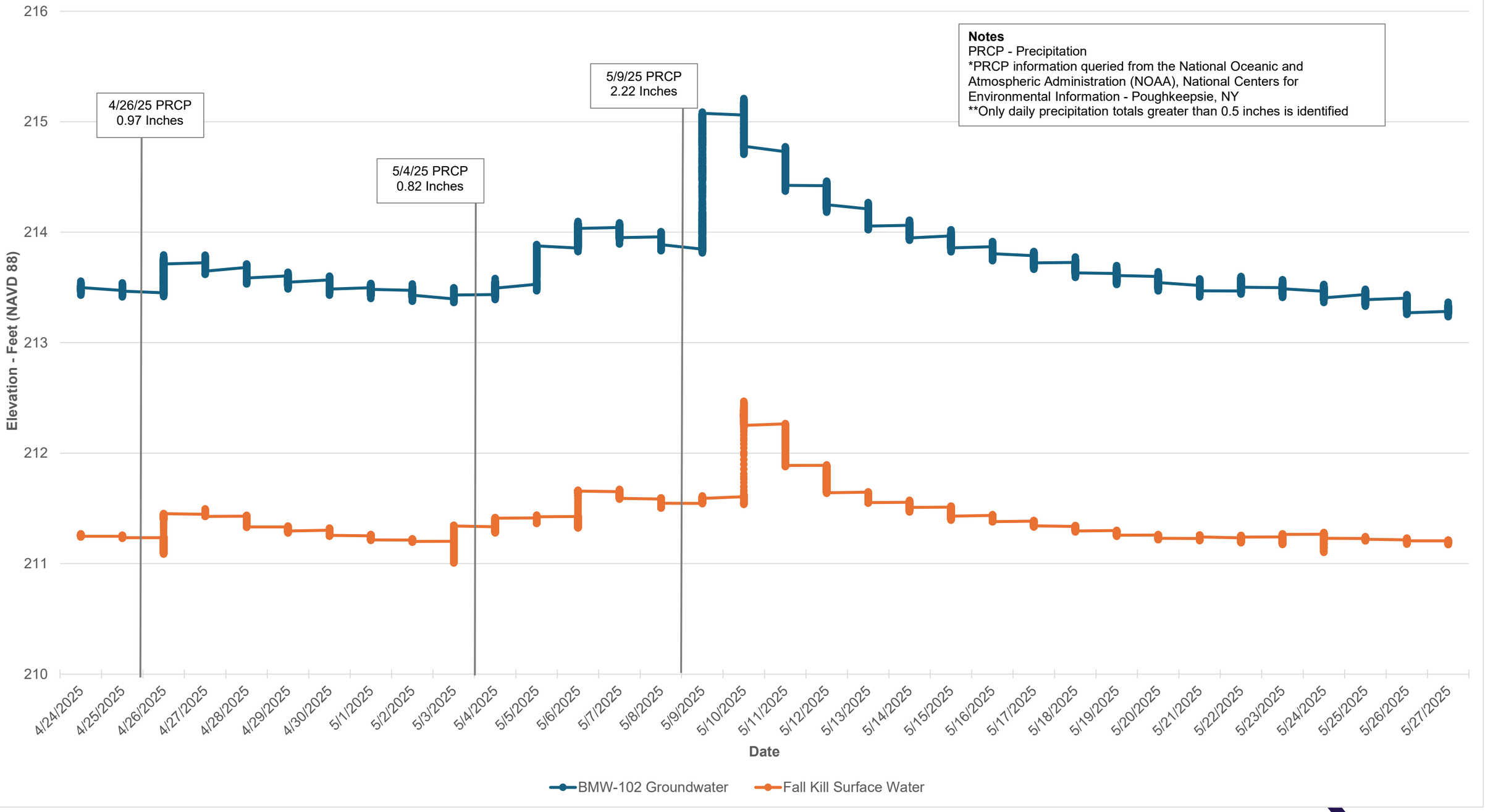
SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan
K = 0.0497 cm/sec
y0 = 0.5352 ft

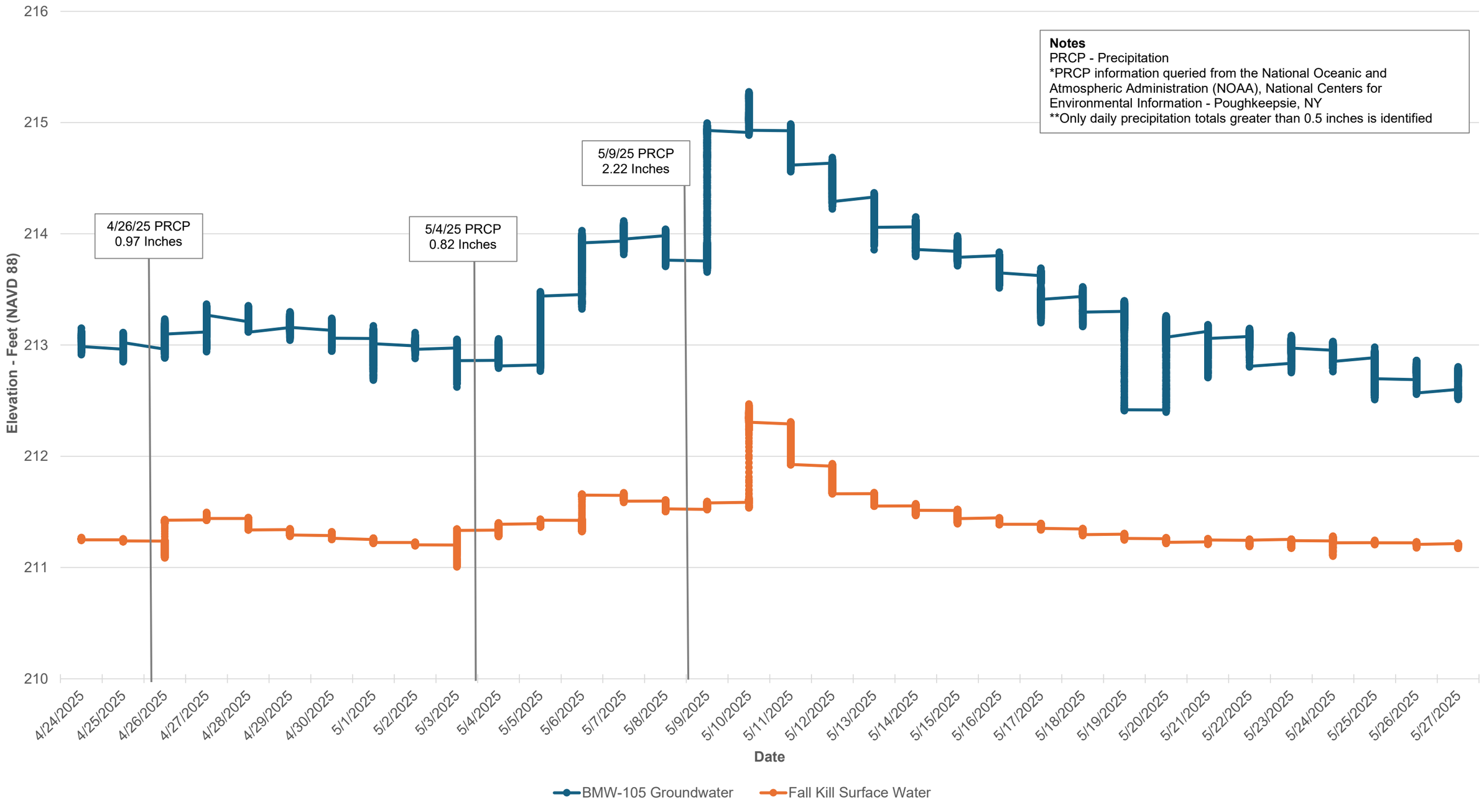
Attachment 9

Bedrock/Overburden Groundwater and Fall Kill Surface Water Elevation over Time Graphs

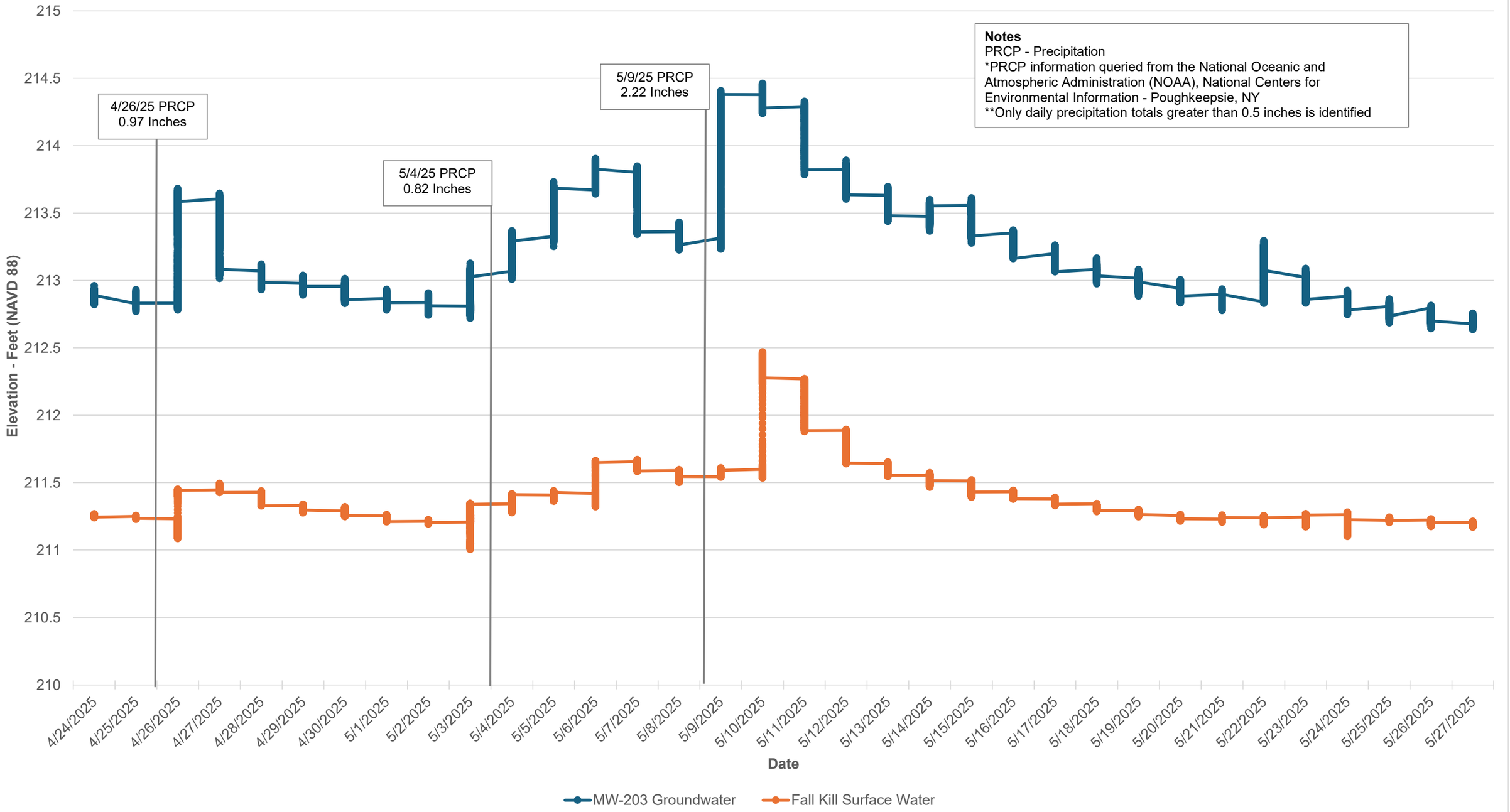
New York State Department of Environmental Conservation
Dutchess County Fire Training Center (Site No. 314128)
BMW-102 Bedrock Groundwater and Fall Kill Surface Water Elevations over Time (April - May 2025)



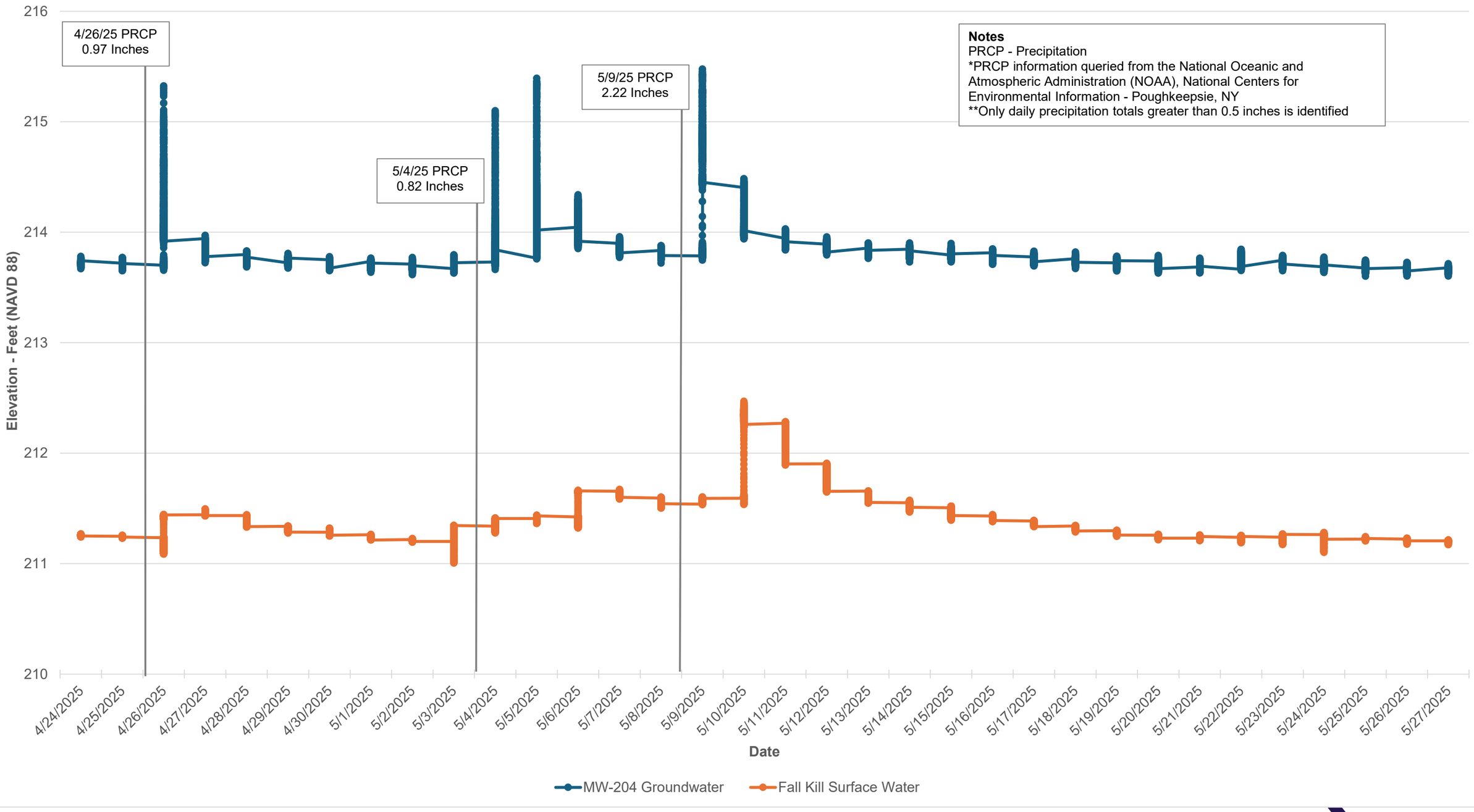
New York State Department of Environmental Conservation
Dutchess County Fire Training Center (Site No. 314128)
BMW-105 Bedrock Groundwater and Fall Kill Surface Water Elevations over Time (April - May 2025)



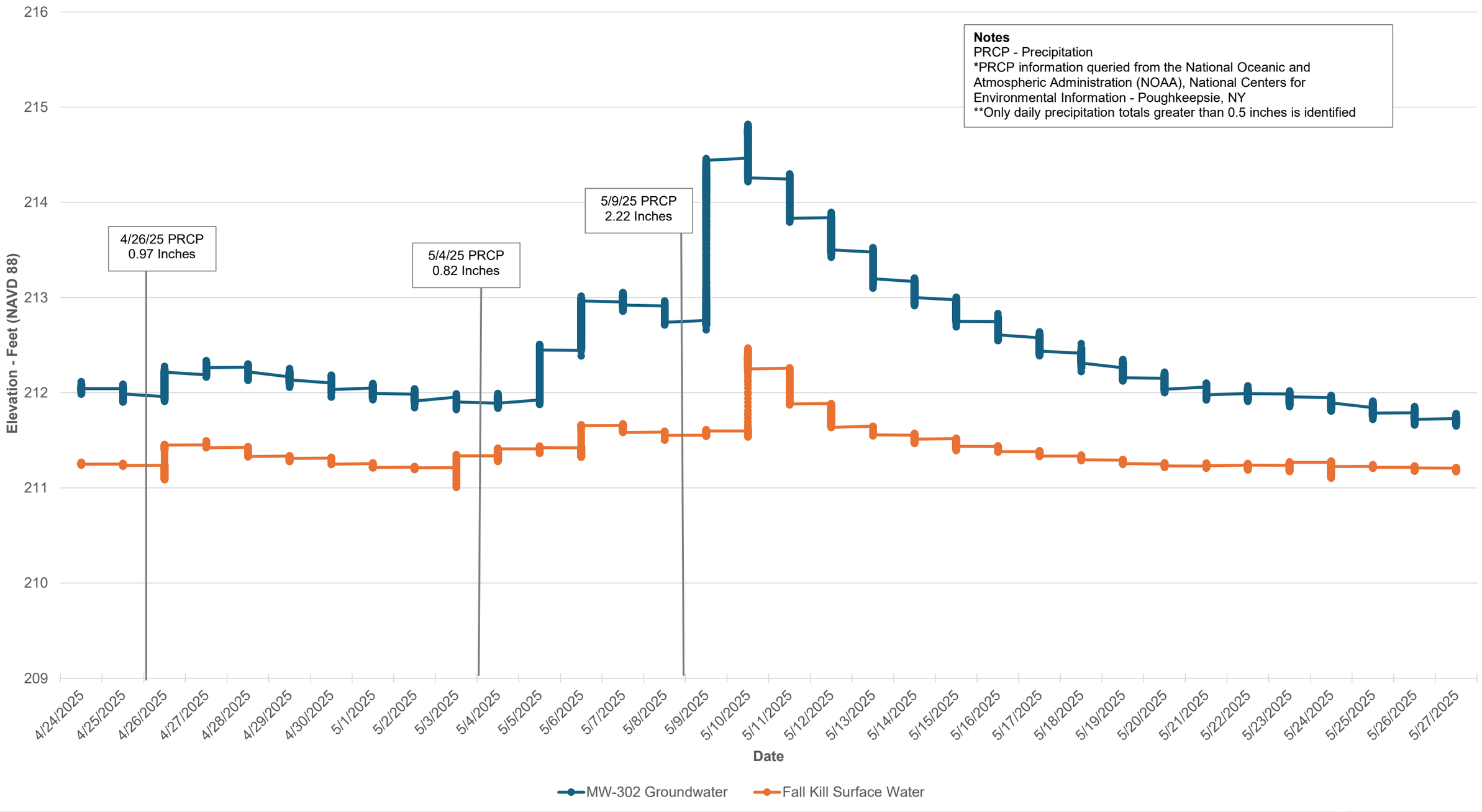
New York State Department of Environmental Conservation
Dutchess County Fire Training Center (Site No. 314128)
MW-203 Overburden Groundwater and Fall Kill Surface Water Elevations over Time (April - May 2025)



New York State Department of Environmental Conservation
Dutchess County Fire Training Center (Site No. 314128)
MW-204 Overburden Groundwater and Fall Kill Surface Water Elevations over Time (April - May 2025)



New York State Department of Environmental Conservation
Dutchess County Fire Training Center (Site No. 314128)
MW-302 Overburden Groundwater and Fall Kill Surface Water Elevations over Time (April - May 2025)



Attachment 10

Land Survey Drawing

Grid North of Central Meridian

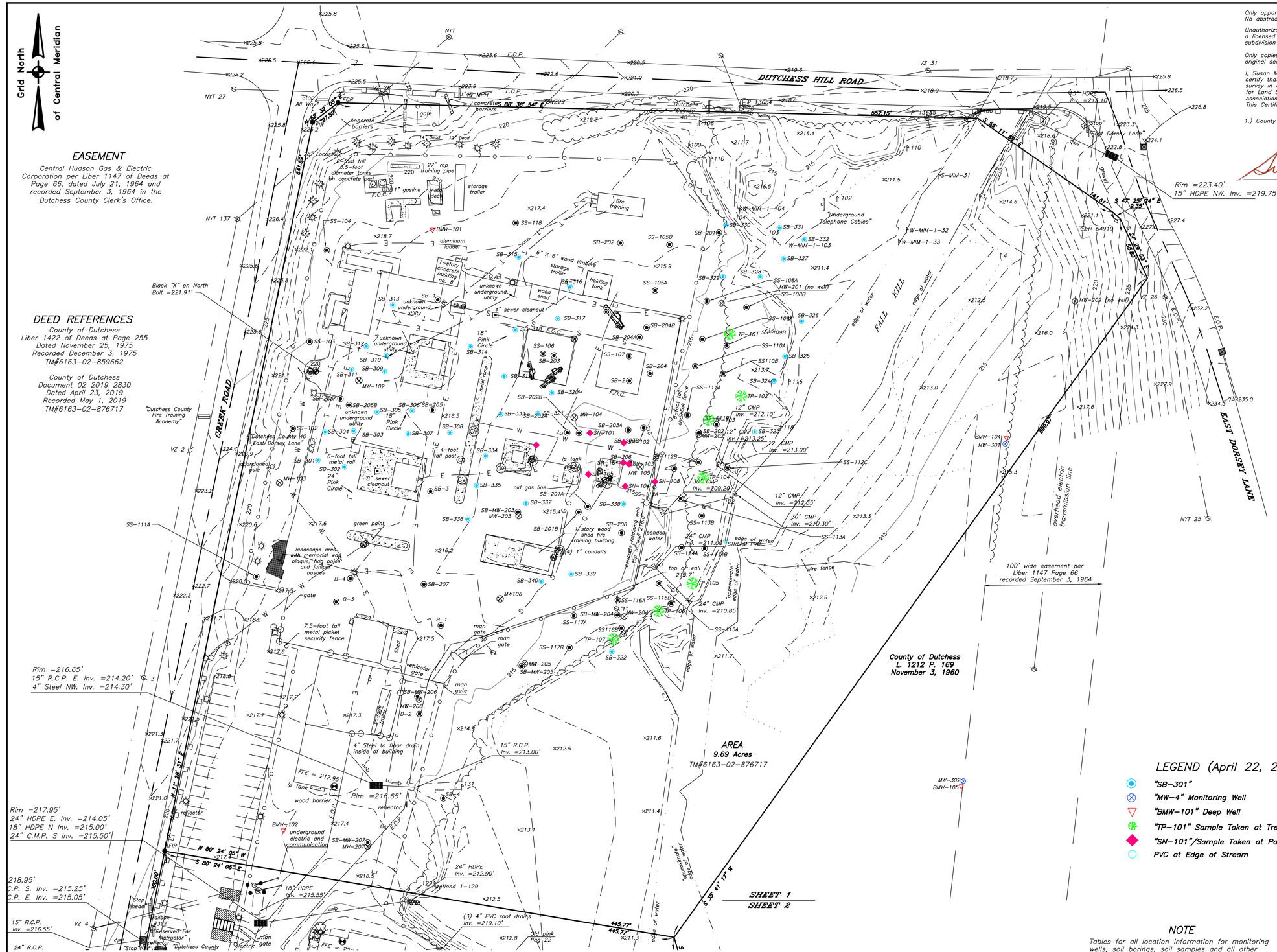
EASEMENT

Central Hudson Gas & Electric Corporation per Liber 1147 of Deeds at Page 66, dated July 21, 1964 and recorded September 3, 1964 in the Dutchess County Clerk's Office.

DEED REFERENCES

County of Dutchess
Liber 1422 of Deeds at Page 255
Dated November 25, 1975
Recorded December 3, 1975
TM#6163-02-859662

County of Dutchess
Document 02 2019 2830
Dated April 23, 2019
Recorded May 1, 2019
TM#6163-02-876717



Only apparent easements (if any) are shown on this survey. No abstract of title was available.

Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, subdivision 2, of the New York State Education Law.

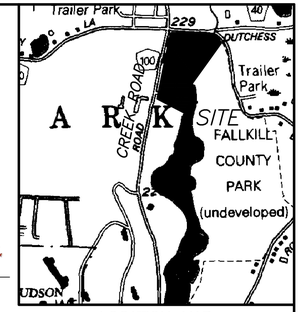
Only copies from the original of this survey marked with an original seal shall be considered to be valid, true copies.

I, Susan M. Anacker, L.S., Lic. No. 50321, (N.Y.), do hereby certify that this Map was prepared by me from an instrument survey in accordance with the most current Code of Practice for Land Surveys, first adopted May 19,1973, by the N.Y.S. Association of Professional Land Surveyors. This Certification shall run only to the following:

1.) County of Dutchess

Susan M. Anacker

May 15, 2025



LOCATION MAP

LEGEND

- Bench Mark
- Finished Floor Elevation
- X 575.2 — Spot Elevation
- FCR — Found Capped Rod
- FIR — Found Iron Rod
- Concrete
- Rip-rap
- E.O.P. — Edge of Pavement
- F.O.C. — Face of Curb
- Chain Link Fence Line
- Wire Fence Line
- Bollard
- Sign/Reflector (As Labeled)
- Double Sign Post
- Light Pole
- Fire Hydrant
- Water Valve
- Catch Basin
- Sanitary Sewer Manhole
- Storm Sewer Manhole
- Direction of Flow
- Gas Valve
- "SS-104"/Soil Sample
- "SB-4"/"B-4" Soil Boring
- "MW-4" Monitoring Well
- Sewer Clean-out
- Utility Pole with Overhead Wires
- Utility Pole Anchor
- Overhead Utility Wires
- Box Rail Guardrail
- Wetland Boundary
- Wetland Flag
- Coniferous Shrub
- Deciduous Ornamental Tree/Or as marked
- Tree Line / Edge of Woods
- Vehicle Used for Training
- W — Approximate Location of Underground 8" Water Line
- E — Approximate Location of Underground Electric Line
- S — Approximate Location of Underground Storm Water Line
- T — Approximate Location of Underground Telephone Line
- G — Approximate Location of Underground Gas Line

20 0 20 40

LEGEND (April 22, 2025 Locations)

- "SB-301"
- "MW-4" Monitoring Well
- "BMW-101" Deep Well
- "TP-101" Sample Taken at Tree
- "SN-101"/Sample Taken at Pavement
- PVC at Edge of Stream

MAP REFERENCES

1.) "Lands to be Abandoned by the Hudson River State Hospital, Poughkeepsie, Dutchess Co., N.Y." by J. Moffat, dated 1945. Filed in the Office of General Services, Albany, NY

2.) "A Portion of the Property of the County of Dutchess" by J.P. McManus, dated May 9, 1968 and recorded in the Dutchess County Clerk's Office May 1, 2019, with replacement deed 02 2019 2830

NOTE

Tables for all location information for monitoring wells, soil borings, soil samples and all other sampling locations are found on Sheet 2.

MAP

of property of

COUNTY OF DUTCHESS

T.M. #6163-02-859662 & 876717

TOWN OF HYDE PARK, COUNTY OF DUTCHESS

STATE OF NEW YORK

Dated: September 22, 2022 *Scale: 1" = 40'*

Survey and Map by: Susan M. Anacker, Professional Land Surveyor
Susan M. Anacker, L.S. Lic # 50321
11082 Davis Road East, Deerfield, New York 13502
(315) 724-6800

Revised December 12, 2022 to change symbols, linetypes, and label edge of water
Revised December 13, 2022 to add Phase II information
Revised April 30, 2025 to show new soil borings, deep wells, monitoring wells, and tree and pavement samples
Revised May 15, 2025 to move legend, extend utility easement and add note for location of monitoring wells, soil borings, soil samples and other sampling location tables. **22-36 25-07**

NOTES:

Underground utilities exist on this parcel. Due to their unknown underground location they are subject to field verification. Call "UDIG NY" @ 811 at least two (2) working days prior to any digging.

Underground utilities shown are from field evidence found and located.

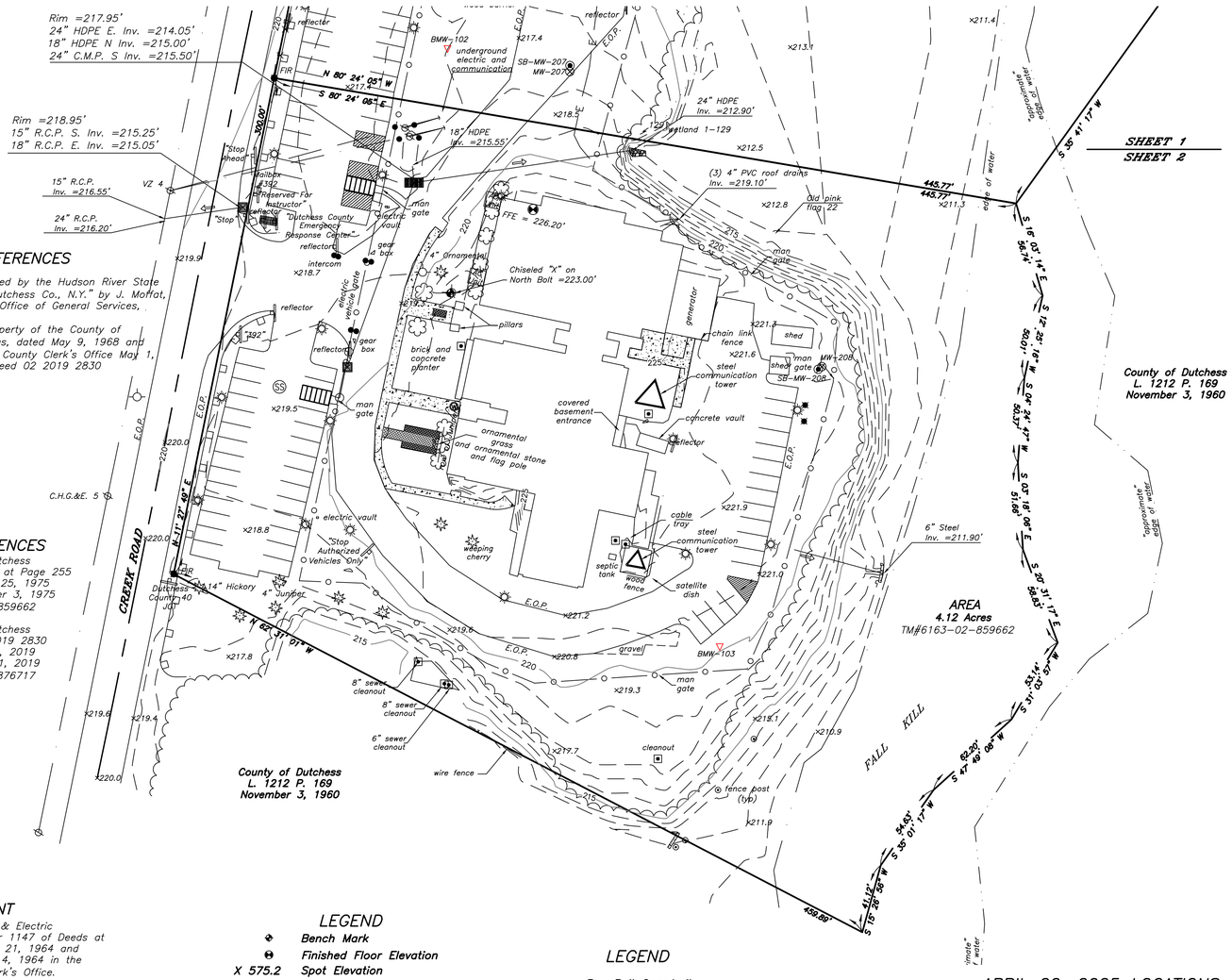
Horizontal datum is based on NAD83.
The New York State Coordinate System is in Eastern Zone.

Vertical datum based on NAVD88.
Contour interval = 1.0'.

STATE OF NEW YORK · SUSAN M. ANACKER · LICENSED LAND SURVEYOR · 050321

ORIGINAL STAMPED IN RED INK

SHEET 1 OF 2



MAP REFERENCES

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DEED REFERENCES

County of Dutchess
Liber 1422 of Deeds at Page 255
Dated November 25, 1975
Recorded December 3, 1975
TM#6163-02-859662

County of Dutchess
Document 02 2019 2830
Dated April 23, 2019
Recorded May 1, 2019
TM#6163-02-876717

EASEMENT

Central Hudson Gas & Electric Corporation per Liber 1147 of Deeds at Page 66, dated July 21, 1964 and recorded September 4, 1964 in the Dutchess County Clerk's Office.

NOTES:

Underground utilities exist on this parcel. Due to their unknown underground location they are subject to field verification. Call "UDIG NY" @ 811 at least two (2) working days prior to any digging.

Underground utilities shown are from field evidence found and located.

Horizontal datum is based on NAD83. The New York State Coordinate System is in Eastern Zone.

Vertical datum based on NAVD88. Contour interval = 1.0'.

Only apparent easements (if any) are shown on this survey. No abstract of title was available.

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Susan M. Anacker
May 15, 2025

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- Finished Floor Elevation
- X 575.2 — Spot Elevation
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- Storm Sewer Manhole
- Direction of Flow
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- "SS-104"/Soil Sample
- "SB-4"/"B-4" Soil Boring
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- Sewer Clean-out
- Utility Pole with Overhead Wires
- Utility Pole Anchor
- Overhead Utility Wires

LEGEND

- Box Rail Guardrail / Wetland Boundary
- Wetland Flag
- Coniferous Shrub
- Deciduous Ornamental Tree/Or as marked
- Tree Line / Edge of Woods
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- Approximate Location of Underground 8" Water Line (W)
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- Approximate Location of Underground Storm Water Line (S)
- Approximate Location of Underground Telephone Line (T)
- Approximate Location of Underground Gas Line (G)

LEGEND (April 22, 2025 Locations)

- "SB-301"
- "MW-4" Monitoring Well
- "BMW-101" Deep Well
- "TP-101" Sample Taken at Tree
- "SN-101"/Sample Taken at Pavement
- PVC at Edge of Stream

20 0 20 40

STATE OF NEW YORK · SUSAN M. ANACKER · LICENSED LAND SURVEYOR · 050321

ORIGINAL STAMPED IN RED INK

SHEET 2 OF 2

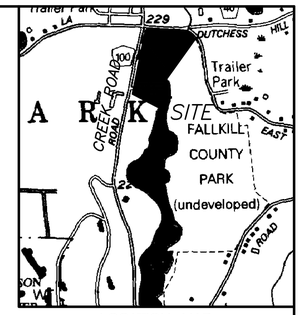
Northing	Easting	Elevation	Description
1062537.2299	656584.2267	215.54	SB-201
1062528.3052	656499.1634	215.96	SB-202
1062431.2146	656441.9033	216.29	SB-203
1062415.7589	656524.6993	215.03	SB-204
1062384.2783	656337.0256	216.40	SB-205
1062338.4714	656508.1280	214.40	SB-206
1062233.8070	656329.6543	216.09	SB-207
1062278.1981	656500.1890	214.91	SB-208
1062364.7998	656566.7615	214.31	SB-MW-202
1062296.1969	656410.7938	215.40	SB-MW-203
1062207.3935	656496.4778	213.99	SB-MW-204
1062163.2939	656414.0869	214.67	SB-MW-205
1062137.1780	656324.0085	216.48	SB-MW-206
1062011.1554	656281.2344	217.59	SB-MW-207
1061831.1019	656428.3664	221.23	SB-MW-208
1062476.4134	656586.4088	214.14	MW-201 (no well)
1062362.6504	656566.9062	218.27	MW-202
		214.31	Adjacent Ground Surface
		218.27	Top of Protective Casing
		218.12	Top of PVC Riser
1062292.7108	656411.4082	215.46	MW-203
		215.40	Adjacent Ground Surface
		215.46	Top of Protective Casing
		215.18	Top of PVC Riser
1062206.1405	656502.4331	218.20	MW-204
		214.00	Adjacent Ground Surface
		218.20	Top of Protective Casing
		217.99	Top of PVC Riser
1062165.5569	656416.7668	214.70	MW-205
		214.67	Adjacent Ground Surface
		214.70	Top of Protective Casing
		214.31	Top of PVC Riser
1062134.2811	656325.4725	216.40	MW-206
		216.48	Adjacent Ground Surface
		216.40	Top of Protective Casing
		216.12	Top of PVC Riser
1062007.4866	656281.1717	217.64	MW-207
		217.60	Adjacent Ground Surface
		216.64	Top of Protective Casing
		217.28	Top of PVC Riser
1061832.7118	656430.4783	221.19	MW-208
		221.23	Adjacent Ground Surface
		221.19	Top of Protective Casing
		220.89	Top of PVC Riser
1062478.1181	656891.4281	217.15	MW-209 (no well)

APRIL 22, 2025 LOCATIONS

NORTHING	EASTING	ELEVATION	DESCRIPTION
1062340.6962	656238.1082	217.78	SB-301
1062335.0757	656261.2296	217.41	SB-302
1062366.1354	656269.1191	217.40	SB-303
1062365.2768	656244.3374	217.82	SB-304
1062382.4175	656289.2332	217.28	SB-305
1062383.6392	656319.5759	216.98	SB-306
1062363.7625	656316.0602	216.85	SB-307
1062364.9131	656352.1200	216.61	SB-308
1062417.6727	656295.5880	217.36	SB-309
1062431.3049	656297.2358	217.41	SB-310
1062419.2108	656267.2113	217.87	SB-311
1062438.9994	656280.0146	217.72	SB-312
1062474.9146	656302.8500	217.83	SB-313
1062438.8510	656369.6971	216.52	SB-314
1062516.0960	656411.2504	216.68	SB-315
1062490.6009	656455.7414	215.84	SB-316
1062463.0115	656444.9777	215.74	SB-317
1062453.1764	656408.5982	216.17	SB-318
1062413.2393	656398.8917	216.16	SB-319
1062398.9344	656439.8152	215.68	SB-320
1062381.1478	656428.1419	215.51	SB-321
1062380.5078	656395.8653	216.08	SB-333
1062344.6376	656382.5804	216.09	SB-334
1062319.0923	656375.1860	215.98	SB-335
1062290.2292	656367.6049	216.13	SB-336
1062303.6392	656417.7118	215.42	SB-337
1062303.2880	656501.7163	215.19	SB-338
1062242.7675	656456.7513	215.37	SB-339
1062236.3929	656430.9398	215.30	SB-340
1062364.3724	656472.9016	215.22	SN-101
1062356.0126	656502.0414	214.99	SN-102
1062337.5976	656506.5981	214.68	SN-103
1062318.3866	656503.3400	214.96	SN-104
1062328.7593	656471.5444	214.98	SN-105
1062354.0400	656426.5507	215.95	SN-106
1062338.8380	656501.5919	215.32	SN-107
1062322.3644	656528.9303	215.82	SN-108

APRIL 22, 2025 LOCATIONS (Continued)

1062175.8831	656491.8267	212.05	SB-322
1062365.3589	656615.0116	210.99	SB-323
1062409.2505	656631.7284	212.66	SB-324
1062430.4786	656641.1718	214.34	SB-325
1062460.6854	656655.3610	210.98	SB-326
1062514.6455	656639.9171	211.40	SB-327
1062499.1165	656619.9810	212.73	SB-328
1062499.0996	656587.7415	214.72	SB-329
1062543.8836	656590.1479	215.55	SB-330
1062541.4306	656636.3018	212.22	SB-331
1062531.0829	656657.9909	211.40	SB-332
1062449.6889	656593.5206	214.97	TP-101
1062396.3589	656603.4128	215.49	TP-102
1062375.5782	656575.2557	214.74	TP-103
1062325.7080	656570.6024	214.63	TP-104
1062234.6840	656561.3828	213.90	TP-105
1062210.7714	656531.9260	213.13	TP-106
1062186.5930	656493.0347	212.71	TP-107
1062539.6377	656337.1396	217.96	BMW-101
		217.84	ADJACENT GROUND SURFACE
		217.65	TOP OF PROTECTIVE CASING
		217.17	TOP OF PVC RISER
1062021.4541	656208.5689	216.92	BMW-102
1062019.1821	656209.4725	216.79	ADJACENT GROUND SURFACE
		216.65	TOP OF PROTECTIVE CASING
		216.18	TOP OF PVC RISER
1061667.0402	656369.9142	220.57	BMW-103
		220.49	ADJACENT GROUND SURFACE
		220.40	TOP OF PROTECTIVE CASING
		219.89	TOP OF PVC RISER
1062359.9354	656832.1740	218.08	BMW-104
		215.32	ADJACENT GROUND SURFACE
		217.67	TOP OF PROTECTIVE CASING
		217.25	TOP OF PVC RISER
1062059.4575	656793.2911	217.14	BMW-105
		214.96	ADJACENT GROUND SURFACE
		216.86	TOP OF PROTECTIVE CASING
		216.39	TOP OF PVC RISER
1062355.0002	656831.1491	218.52	MW-301
		215.29	ADJACENT GROUND SURFACE
		217.90	TOP OF PVC RISER
1062064.1279	656795.1241	218.36	MW-302
		214.92	ADJACENT GROUND SURFACE
		218.22	TOP OF PVC RISER
1062270.0434	656590.1690	211.15	STREAM PVC
1062270.5320	656589.6854	211.08	TOP of WATER



LOCATION MAP

Dutchess County Emergency Response Soil Boring Locations		
Identifier	*Northing*	*Easting*	*Ground Elevation*
B-1	1062198.3150	656344.2761	216.38
B-2	1062122.0220	656325.8055	216.48
B-3	1062218.6590	656254.1435	217.25
B-4	1062238.7980	656266.0330	217.04

Surface Soil Sample Locations			
Identifier	*Northing*	*Easting*	*Ground Elevation*
SS-101	1062240.3670	656185.0561	218.26
SS-102	1062368.1570	656216.5962	218.91
SS-103	1062443.1120	656231.1066	219.57
SS-104	1062522.0360	656245.9029	219.35
SS-105A	1062487.1920	656529.1165	215.71
SS-105B	1062526.8980	656541.6027	216.06
SS-106	1062432.7190	656432.3854	216.43
SS-107	1062430.6470	656506.7024	215.62
SS-108A	1062478.1550	656573.7338	214.81
SS-108B	1062472.6630	656607.8871	214.33
SS-109A	1062445.2780	656569.8375	214.45
SS-109B	1062439.9450	656591.0360	214.51
SS-110A	1062422.0720	656563.8005	214.49
SS-110B	1062415.4060	656587.8659	214.45
SS-111A	1062379.8240	656557.0208	214.66
SS-111B	1062371.9490	656582.0264	214.39
SS-112A	1062333.5570	656545.4529	213.24
SS-112B	1062339.1170	656566.5020	212.52
SS-112C	1062334.2990	656591.4834	212.59
SS-113A	1062307.7070	656551.2113	214.03
SS-113B	1062293.0300	656569.3521	213.89
SS-114A	1062265.7160	656551.9914	213.71
SS-114B	1062264.8790	656571.8272	213.78
SS-115A	1062234.5760	656532.4927	213.69
SS-115B	1062217.3960	656542.9508	213.86
SS-116A	1062220.2860	656497.0363	213.85
SS-116B	1062196.0520	656500.0227	213.31
SS-117A	1062206.7470	656458.9566	214.50
SS-117B	1062179.1380	656455.4070	214.00
SS-118	1062545.6080	656408.9314	217.44

Soil Boring Locations			
Identifier	*Northing*	*Easting*	*Ground Elevation*
SB-01	1062479.3180	656341.6614	217.06
SB-02	1062409.2800	656506.8479	215.40
SB-03	1062314.1350	656335.4159	216.57
SB-04	1062049.2470	656346.4517	213.20
SB-201A	1062300.9340	656470.9015	215.02
SB-201B	1062296.1140	656463.0261	215.34
SB-202A	1062364.7460	656453.3332	215.04
SB-202B	1062364.3540	656463.4919	215.13
SB-203A	1062366.9520	656505.8895	214.89
SB-203B	1062368.7680	656519.1826	214.90
SB-204A	1062446.9410	656515.6920	215.22
SB-204B	1062455.3350	656521.7845	215.51
SB-205A	1062393.9530	656257.6472	217.81
SB-205B	1062388.4620	656265.0443	217.72

Monitor Well Sample Locations			
Identifier	*Northing*	*Easting*	*Top of Protective Casing*
MW-102	1062409.7060	656273.6059	217.61
MW-103	1062321.5710	656205.0914	218.61
MW-104	1062377.8470	656459.3548	215.31
MW-105	1062335.2370	656516.2540	214.44
MW-106	1062221.3350	656395.4601	215.26

MAP

of property of

COUNTY OF DUTCHESS

T.M. #6163-02-859662 & 876717

TOWN OF HYDE PARK, COUNTY OF DUTCHESS

STATE OF NEW YORK

Dated: September 22, 2022 *Scale: 1" = 40'*

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25-07

Attachment 11

Non-Hazardous Waste Manifests

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
			631-586-5000	NHWM223869

5. Generator's Name and Mailing Address
NYSDEC
625 BROADWAY, 12TH FLOOR
ALBANY, NY 12233 518-402-8730
Generator's Phone:

Generator's Site Address (if different than mailing address)
SITE NO. 314128: 392 CREEK ROAD
HYDE PARK, NY 12601

6. Transporter 1 Company Name
AARCO ENVIRONMENTAL SERVICES
U.S. EPA ID Number
NYR000107326

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DALE TRANSFER CORPORATION
129 DALE STREET, WEST BABYLON NY 11704
631-393-2882
Facility's Phone:
U.S. EPA ID Number
N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED LIQUIDS (GROUNDWATER)	001	TT	3,200	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. 2024-0978
AARCO WO# 223869 TRUCK# V179

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Andrew Fishman as agent of NYSDEC
Signature
Month 11 Day 5 Year 24

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Victor L. Cardoza
Signature
Month 11 Day 5 Year 24
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
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: Armando Sanchez
Signature
Month 11 Day 5 Year 24

DESIGNATED FACILITY TO GENERATOR

Printed in USA by GC Labels
1-800-997-6966
Reorder Part# MANIFEST-C6NHW
913-897-6966

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. . . . . Manifest Doc. No. 68110 | 2. Page 1 of 01 | NHWM223869C

GENERATOR

3. Generator's Name and Mailing Address
NYS DEC
625 BROADWAY 12TH FLOOR, ALBANY, NY 12233
4. Generator's Phone (518) 402 8730

SITE # 314128
392 CREEK ROAD
HYDE PARK, NY 12601

5. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES CORP.
6. US EPA ID Number: N.Y.R.0.0.0.1.0.7.3.2.6
A. Transporter's Phone: 631-586-5900

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
DALE TRANSFER CORP.
129 DALE STREET
WEST BABYLON, NY 11704
10. US EPA ID Number: N/A
C. Facility's Phone: 631-393-2882

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. ~~NON-HAZARDOUS WASTE SOLID~~				P
b. NON-HAZARDOUS WASTE LIQUID	XX1	T	28.00	G
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900
APPROVAL #2024-0978
TRUCK #V654
JOB # 223869

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: Andrew Fishman AS agent of NYSDEC | Signature | Month 1.1 | Day 1.2 | Year 24

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: MUHAMMAD AWAN | Signature | Month 1.1 | Day 12 | Year 24
18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month . | Day . | Year .

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Armando Sanchez | Signature | Month 1.1 | Day 12 | Year 24

ORIGINAL – RETURN TO GENERATOR

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM223869D

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 BROADWAY, 12TH FLOOR
ALBANY, NY 12233 518-402-8730
Generator's Phone:

Generator's Site Address (if different than mailing address)
SITE NO. 314128: 392 CREEK ROAD
HYDE PARK, NY 12601

6. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES
U.S. EPA ID Number: NYR000107326

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DALE TRANSFER CORPORATION
129 DALE STREET, WEST BABYLON NY 11704
631-393-2882
Facility's Phone:
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-REGULATED LIQUIDS (GROUNDWATER) Sludge	1	TT	3,000	P G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1. 2024-0978
AARCO WO# 223869 TRUCK# [redacted]
V654

INT'L

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Andrew Fishman — HS Agent of NYSDEC
Signature
Month: 11 Day: 15 Year: 24

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Cristian Giraldo
Signature
Month: 11 Day: 15 Year: 24

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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: Armando Sanchez
Signature
Month: 11 Day: 15 Year: 24

Printed in USA by GC Labels
1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. . . . . | Manifest Doc. No. 65989 | 2. Page 1 of 1 | WO# 223869

GENERATOR

3. Generator's Name and Mailing Address: NYSDEC 625 Broadway, 12th FL Albany, NY 12233 | 392 Creek RD Hyde Park, NY, 12601

4. Generator's Phone (518) 402 8730

5. Transporter 1 Company Name: **AARCO ENVIRONMENTAL SERVICES CORP.** | 6. US EPA ID Number: **N.Y.R.0.0.0.1.0.7.3.2.6** | A. Transporter's Phone: **631-586-5900**

7. Transporter 2 Company Name | 8. US EPA ID Number . . . . . | B. Transporter's Phone

9. Designated Facility Name and Site Address: Dale transfer Corp 129 dale street, west Babylon, N.Y. 11704 | 10. US EPA ID Number: N/A | C. Facility's Phone: 631-393-2832

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non Regulated liquids (Ground water)	001	TT	25.0	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900
WO # 223869
Truck # V654
Approval # 2024-0478

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Andrew Fishman As Agent of NYSDEC | Signature | Month 11 | Day 22 | Year 24

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name: Cristian Giraldo | Signature | Month 11 | Day 22 | Year 24

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month . | Day . | Year .

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Armando Sanchez | Signature | Month 12 | Day 04 | Year 24

ORIGINAL – RETURN TO GENERATOR

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. . . . . | Manifest Doc. No. 68118 | 2. Page 1 of 01 | NHWM224105

GENERATOR

3. Generator's Name and Mailing Address: NYSDEC, 625 BROADWAY 12TH FLOOR, ALBANY, NY 12233 | 392 CREEK ROAD, POUGHKEEPSIE, NY 12601

4. Generator's Phone (518) 402 8730

5. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES CORP. | 6. US EPA ID Number: N.Y.R.0.0.0.1.0.7.3.2.6 | A. Transporter's Phone: 631-586-5900

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address: DALE TRANSFER CORP., 129 DALE STREET, WEST BABYLON, NY 11704 | 10. US EPA ID Number: N/A | C. Facility's Phone: 631-393-2882

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. ~~NON-HAZARDOUS WASTE SOLID~~	~~X.X.1~~	~~T.T~~		~~P~~
b. NON-HAZARDOUS WASTE LIQUID (GROUND WATER)	X.X.1	T.T	X1.8.0.0	G
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900

JOB # 224105
TRUCK # V654
APPROVAL # 2024-0978

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Andrew Fishman Agent of NYSDEC		12	09	24

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MUHAMMAD AWAN		12	09	24

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year
Armando Sanchez		12	09	24

ORIGINAL – RETURN TO GENERATOR

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM223869B

5. Generator's Name and Mailing Address
NYSDEC
625 BROADWAY, 12TH FLOOR
ALBANY, NY 12233 518-402-8730
Generator's Phone:

Generator's Site Address (if different than mailing address)
SITE NO. 314128: 392 CREEK ROAD
HYDE PARK, NY 12601

6. Transporter 1 Company Name
AARCO ENVIRONMENTAL SERVICES
U.S. EPA ID Number
NYR000107326

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DALE TRANSFER CORPORATION
129 DALE STREET, WEST BABYLON NY 11704
631-393-2882
Facility's Phone:
U.S. EPA ID Number
N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED SOLIDS (SOIL)	001	CM	10	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. 2024-0979
AARCO WO# 223869 TRUCK# R679

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Andrew Fishman AS Agent of NYSDEC
Signature:
Month: 11 Day: 11 Year: 24

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Robert Martinez
Signature:
Month: 11 Day: 11 Year: 24
Transporter 2 Printed/Typed Name:
Signature:
Month: 11 Day: 1 Year:

DESIGNATED FACILITY
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: Armando Sanchez
Signature:
Month: 11 Day: 11 Year: 24

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1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

R-TEK SCALES, LLC.

TIME: 11/11/2024 11:09:15 AM
TRUCK: 38698

DRIVER ID: ROB
MANIFEST: 2238698
LICENSE PLATE: 111124

TOTAL AXLE WEIGHT: 46940
AXLE 1: 31680
AXLE 2: 15260

THANK YOU!

R-TEK SCALES, LLC.

TIME: 11/11/2024 11:26:04 AM
TRUCK: 38698

GROSS: 46940
TARE: 36800
NET: 0

46940 heavy
36800 light
5.07 tons

DRIVER ID: ROB
MANIFEST: 2238698
LICENSE PLATE: 111124

TOTAL AXLE WEIGHT: 46940.00000
AXLE 1: 13840
AXLE 2: 22960

THANK YOU!

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: NHWM223869F

5. Generator's Name and Mailing Address
NYS DEC
625 Broadway 12th Floor
Albany, NY 12233
Generator's Phone: 518-402-8730

Generator's Site Address (if different than mailing address)
Site No. 314128. 392 Creek Rd
Hyde Park, NY 12601

6. Transporter 1 Company Name: AARCO Environmental Services
U.S. EPA ID Number: NYR000107326

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Dale transfer Corporation
129 Dale St, West Babylon NY 11704
Facility's Phone: 631-393-2882
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Regulated Liquids (Groundwater/Sludge)	001	TT	4	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1.2024.0978
AARCO WO# 223869 Truck #688

GENERATOR

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: X Andrew [illegible] As agent of NYSDEC
Signature: X
Month: 11 Day: 22 Year: 24

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: T Shawn Davis
Signature: T-Davis
Month: 11 Day: 22 Year: 24
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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: Armando Sanchez
Signature
Month: 11 Day: 22 Year: 24

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1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

[illegible] SCALES, LLC

TIME: 11/22/2024 1:37:30 PM
TRUCK: 2500WR

DRIVER ID: TUSH
MANIFEST: 570
LICENSE PLATE: DD

TOTAL AXLE WEIGHT: 54480
AXLE 1: 34460
AXLE 2: 19420

THANK YOU!

[illegible] SCALES, LLC

TIME: 11/22/2024 2:03:20 PM
TRUCK: 2500WR

GROSS: 54480
TARE: 48040
NET: 0

54480 heavy
48040 light

3.22 TN

DRIVER ID: TUSH
MANIFEST: 570
LICENSE PLATE: DD

TOTAL AXLE WEIGHT: 54480-48040
AXLE 1: 29340
AXLE 2: 18700

THANK YOU!

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	631-586-5900	NHWM224105-1212

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 BROADWAY, 12TH FLOOR
ALBANY, NY 12233 518-402-8730
Generator's Phone:

Generator's Site Address (if different than mailing address)
SITE NO. 314128: 392 CREEK ROAD
HYDE PARK, NY 12601

6. Transporter 1 Company Name
AARCO ENVIRONMENTAL SERVICES
U.S. EPA ID Number
NYR000107326

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DALE TRANSFER CORPORATION
129 DALE STREET, WEST BABYLON NY 11704
631-393-2882
Facility's Phone:
U.S. EPA ID Number
N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED MATERIAL (TANK BOTTOM SEDIMENT/SLUDGE)	001	TT	3	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. 2024-0979
AARCO WO# 224105 TRUCK# VC 688

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name
Signature
Month 12 Day 12 Year 24

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Robert Mortimer
Signature
Month 12 Day 12 Year 24
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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: Ramon Sanchez
Signature
Month 12 Day 12 Year 24

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1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

B-TEK SCALES, LLC

TIME: 12/12/2024 1:15:15 PM
TRUCK: MARTINEZ2

DRIVER ID: ROBERT
MANIFEST: 1212
LICENSE PLATE: 121224

TOTAL AXLE WEIGHT: 42840
AXLE 1: 24920
AXLE 2: 17940

THANK YOU!

B-TEK SCALES, LLC.

TIME: 12/12/2024 1:30:34 PM
TRUCK: MARTINEZ2

GROSS: 42860
TARE: 40480
NET: 0

42860 heavy
40480 light
2380 = 1.19TN

DRIVER ID: ROBERT
MANIFEST: 1212
LICENSE PLATE: 121224

TOTAL AXLE WEIGHT: 42860.00000
AXLE 1: 22440
AXLE 2: 18020

THANK YOU!

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 631-586-5900	4. Waste Tracking Number NHWM225256

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC / SITE NO. 314128
625 BROADWAY, 12TH FLOOR
ALBANY, NY 12204
Generator's Phone:

Generator's Site Address (if different than mailing address)
392 CREEK ROAD
HYDE PARK, NY 12601

6. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES — U.S. EPA ID Number: NYR000107326

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
DALE TRANSFER CORP.
129 DALE STREET, WEST BABYLON NY 11704
Facility's Phone: 631-393-2882
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-REGULATED LIQUIDS (WATER)	05	DM	1,250	P	
2.	NON-REGULATED SOLIDS (SOIL)	02	DM	750	P	
3.						
4.						

13. Special Handling Instructions and Additional Information

1. APPROVAL #
2. APPROVAL #
JOB # 225256 TRUCK # ~~B636~~ 568

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: xAudrey Kovas, on Behalf of NYSDEC
Signature: xAudrey Kovas, on Behalf of NYSDEC
Month 4 Day 25 Year 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tshawn Davis
Signature: T-Dale
Month 4 Day 25 Year 25
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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: Armando Sanchez
Signature
Month 4 Day 25 Year 25

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1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

Attachment 12

Turtle Habitat Assessment Report

Turtle Habitat Assessment Report

January 2025

Dutchess County Fire Training Center
NYSDEC Site No. 314128

Prepared For:

New York State Department of
Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233

Prepared By:

TRC
63 Marginal Way, 4th Floor
Portland, ME 04101



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TABLES AND FIGURES

Figure 1 Turtle Habitat Assessment Map

ATTACHMENTS

Attachment A Figures
Attachment B Photolog
Attachment C Agency Consultation - NYNHP Response

1.0 INTRODUCTION

1.1 Site Background

The Dutchess County Fire Training Center comprises approximately 9.7 acres of property and is located at 392 Creek Road near the intersection of Creek Road and East Dorsey Lane in Hyde Park, Dutchess County, New York (the Site, see Figure 1). The Site is located within an irregularly shaped parcel of land identified on the Dutchess County tax maps as tax parcel number 133200-6163-02-876717-0000.

The land use of the Site is primarily commercial; however, mixed recreational and residential areas are on its borders. The Site is bordered to the north by East Dorsey Lane and residential properties; to the west by Creek Road and recreational sporting fields (Hyde Park Memorial Fields); to the south by the Dutchess County Emergency Response facility, undeveloped-forested land, Fall Kill, and wetlands; and to the east by a transmission line right-of-way, undeveloped forested land, and residential properties.

Investigatory surveys were conducted in July 2022 as part of the Phase I Remedial Investigation. One wetland (W-MLM-1) and one stream (S-MLM-1 the Fall Kill) were identified within the Site's boundaries during this effort (Attachment A, Figure 1) The Fall Kill exhibits a perennial flow regime and flows south through an unnamed impoundment within an area identified as Fall Kill County Park, proceeding south-southwest toward the Hudson River. The Fall Kill, a "protected stream" designated as Class C and Class B waters, bisects the Site. Flanking both banks of the Fall Kill is one large wetland complex, designated wetland W-MLM-1. This wetland exhibited characteristics representative of palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO) wetland communities.

The New York Natural Heritage Program (NYNHP) was consulted on July 19, 2022, in order to identify any state-listed threatened, endangered, or special concern species, as well as identify any significant natural communities that are located on or in the vicinity of the Site. A response from the New York Natural Heritage Program (NYNHP) was received on September 8, 2022, and is attached in Attachment C. The NYNHP identified the state threatened Blanding's turtle (*Emydoidea blandingii*) as being documented within 0.67 miles of the Site. Due to the presence of Blanding's turtles in the general vicinity, a Habitat Assessment Plan was created to assess the Project site for suitable Blanding's turtle habitat, and submitted to the NYSDEC as part of the Phase III Remedial Investigation Work Plan dated May 21, 2024. Surveys were subsequently conducted on site on June 11 and 12, 2024, resulting in this report that documents the suitability of delineated wetland areas and other features, within the Site as potential Blanding's turtle habitat.

2.0 Survey Background and Methodology

2.1 Blanding's Turtle Life History

Blanding's turtles utilize various wetland and riparian communities for feeding, reproduction (courtship and copulation usually occurs in water), and overwintering, but they also utilize terrestrial systems for foraging, thermoregulation, egg deposition, and parasite control. Semi-permanent wetlands and vernal pools play a significant role, presenting seasonal foraging opportunities, and Blanding's turtles will travel overland seeking out these resources. Blanding's turtles routinely travel from 100m to 300m from wetlands (MDFW 2015) in search of seasonal food sources, shelter, thermoregulation, and egg depositional opportunities.

Blanding's turtles typically overwinter in marshes, ponds, and deepwater wetlands with deep organic matter, though individuals have been known to overwinter in seeps/springs in red maple swamps, blueberry bogs, or vernal pools, emerging in mid-March to early April. After emergence, Blanding's turtles may move to shallow wetlands, shrub swamps, vernal pools, and lake backwaters to feed and mate. Courtship and mating typically occurs in the water during the spring months, with females leaving wetland habitats to find appropriate nesting sites in June. Females are attracted to the smell of disturbed earth during the laying season, and may travel up to a mile or more to deposit eggs. Prime sites for egg laying are exposed, open, well-drained sandy soils, with a southern or western-facing aspect for optimal thermal exposure, though Blanding's turtles are also known to utilize dirt roads, powerline ROW's, gravel pits and residential lawns (MDFW 2015, Mirick 2016).

Blanding's turtles feed in both terrestrial and aquatic habitats. The species is an opportunistic feeder, feeding on insects, worms, mollusks, larval amphibians, small vertebrates, and carrion. Blanding's turtles are known to consume aquatic plants including coontail *(Cerstophyllum demersum*), duckweeds (genus *Lemnoideae*), bulrushes (genus *Scirpus*) and sedges (genus *Carex*), and terrestrial sources such as fallen fruit and berries. Vernal pools also provide an ample food source and function as potential courtship and mating sites. In the fall, Blanding's turtles return to their home streams, ponds, or marshes for brumation, burrowing down into the organic substrate for the winter (MDFW 2015, Mirick 2016).

2.2 Wetland Habitat Assessment

TRC biologists familiar with identification of Blanding's turtle habitat performed Blanding's turtle wetland habitat assessments on all wetland and associated waterbodies in June 2024. For the purpose of this habitat assessment, wetlands were defined as areas that met the criteria of the 1987 Corps of Engineers Wetland Delineation Manual (USACE 1987), the 2012 Regional

Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0 (USACE 2012), and/or the 1995 DEC Freshwater Wetlands Delineation Manual (DEC 1995). Delineated wetlands are depicted on Figure 1 (Attachment A).

Wetlands within the Site were assessed separated into segments, categorizing each segment as being potential core wetland habitat, associated wetland habitat, or non-suitable wetland habitat for Blanding's turtles, as defined below (see Attachment A, Figure 1). These habitat criteria follow specific characteristics outlined in the *Conservation Plan for Populations of the Blanding's Turtle* (Ross and Johnson 2018) and the *Guidelines for Reviewing Projects for Potential Impacts to the Blanding's Turtle (NYSDEC 2010)*.

Core wetland habitat refers to a wetland with high suitability for Blanding's turtles to use and can exhibit the following characteristics:

- Open or absent tree canopy
- Dense shrub cover, particularly willow and buttonbush, with components of forbs and graminoids dispersed as hummocks and tussocks throughout the wetland
- Fine organic and coarse debris
- Forested wetland perimeter
- Shallow (≥ 30 centimeters (cm)) and deep (≥ 120 (cm)) pools connected by channels.

Associated wetland habitat refers to a wetland with moderate potential suitability for Blanding's turtle use and is within 1,000 meters (0.62 mile) of a core wetland habitat (NYSDEC 2010). The core wetland habitat can be located off the Project site, though in this case, the core designation would be provided by NYNHP from their records, as the Project does not have access to all potential wetlands within one thousand meters of the Site.

Wetlands deemed as **non-suitable wetland habitat** are wetlands that do not:

- Display any of the criteria of a core wetland habitat.
- Occur within 1,000 meters (0.62 mile) of a core wetland habitat.
- Support standing water during any part of the year, or do not contain streams, rivers, or other waterbodies.

2.3 Upland Nesting Habitat Assessment

TRC biologists surveyed for potentially suitable nesting habitat patches within the Site that were upland areas consisting of loose, dry, sandy/gravelly soils in open areas and/or actively cultivated

crops in any soil type. Gravel parking lots or yards were not considered suitable nesting habitat due to soil compaction and vehicular traffic, though the edges of these lots may contain loose berms or other suitable habitat for examination.

3.0 Survey Results

A thorough survey and review of the Site found no Blanding's turtles or evidence of their presence via tracks, nesting sites, or physical remains. There are two main natural habitats in the Project area that could potentially play a role in Blanding's turtle populations, the Fall Kill with its flanking wetlands, and the upland community surrounding the wetland. Each habitat is examined below:

3.1 Wetland Habitat Results

The Project Area is bisected north to south by Fall Kill (Attachment A, Figure 2), a wide perennial waterbody that flows southward through the town of Poughkeepsie and empties into the Hudson River. Outside the Project Area, the Fall Kill is impounded by the Creek Road dam, forming a large, deep pond suitable for aestivation of Blanding's turtles. The Fall Kill within the Project Area is between 25 and 50 feet wide, 2-4 feet deep, displays a mixed silt, gravel, and sand substrate, and contains a moderate level of aquatic plant life (Attachment B, Photo #1). The Fall Kill has the potential to function as a year-round travel corridor, allowing any potential Blanding's turtles to move up and down the river system, between adjacent wetland communities and connecting them to a potential overwintering site south at the Creed Road dam impoundment. The river also provides a suitable habitat for foraging Blanding's turtles for feeding and reproduction. Within the Project Area the Fall Kill is flanked by a large mixed habitat wetland, with narrow bands of PEM wetland flanking the river, a segment of PSS wetland in the southern half of the Project Area, and strips of PFO wetland separating the river system from the surrounding upland forest environment. No vernal pools were located on site.

There are two small PEM segments of the wetland that offer the best habitat for Blanding's turtles. These segments were located on the eastern and western shores of the Fall Kill, in the northern half of the Project Area (Attachment A, Figure 1) and experience seasonal flooding from the river system. The PEM wetlands are not large, but offer deep mucky soils with thick growths of obligate hydrophytes. Cattails (*Typha latifolia*), arrowhead (*Sagittaria latifolia*), and purple loosestrife (*Lythrum salicaria*) dominate with arrowwood (*Viburnum dentatum*), buttonbush (*Cephalanthus occidentalis*) and silky dogwood (*Cornus amomum*) growing along the edge abutting the PFO wetland segments (Attachment B, Photos 3,4,5 & 6). The PEM wetlands are relatively open, having a 50% to 75% open canopy, and purple loosestrife forms raised tussocks in the wetland creating potential basking sites. Overall, these PEM wetlands combined with their proximity to the river would be considered core Blanding's turtle habitat, though their small size would keep them

from supporting a large number of individuals and may reduce their overall usefulness for the species. These PEM wetlands may function as stopover points for any potential Blanding's turtles moving up and down the Fall Kill, providing refugia and feeding opportunities for individual specimens.

In the southern half of the Project Area is a large PSS wetland. This wetland is dominated by a dense stand of common reed (*Phragmites australis*), with small patches of cattails present near the river, and shrubs of arrowwood and dogwood scattered throughout. The soils here were sandier than those of the PEM, fine sandy loams being dominant, with surficial mucky deposits along the riverbanks. This PSS wetland is extremely dense, with few game trails observed within the wetland, making turtle passage deeper into the PSS from the river quite difficult. The dense common reed stands block light to the substrate and create an herbaceous monoculture, suppressing other native species that might provide foraging opportunities for Blanding's turtles. The dense monocultural nature of this area reduces its overall usefulness as Blanding's Turtle habitat, and therefore would be considered associated wetland habitat for the species, utilized infrequently and only along the edge where it meets the river corridor.

Palustrine forested wetlands surround all of the PEM and much of the PSS wetlands along the northern half of the river within the Project Area. (See Attachment A Figure 2, Attachment B Photos 3 & 10). The trees within the PFO were varied, with American elm (*Ulmus americana*), black willow (*Salix nigra*), green ash (*Fraxinus pennsylvanica*), Eastern cottonwood (*Populus deltoides*), and red maple (*Acer rubrum*) comprising the dominant species. The understory contained dense stands of European buckthorn (*Rhamnus cathartica*) and dogwood, with vines of poison ivy (*Toxicodendron radicans*) and river grape (*Vitis riparia*) crisscrossing the site and climbing up the trees. The soils were a gravely fine sandy loam, showing signs of old fill and other disturbance. There were no vernal pools or other seeps/springs that may serve as ideal habitat for Blanding's turtles, but its association with the river and the adjacent PEM habitats qualify these forested wetlands to be considered associated wetland habitat.

3.2 Upland habitat results

The uplands within the Project Area west of the river consisted of developed buildings, paved parking lots, paved training facilities, and maintained lawns of the fire training center (Attachment B, Photo 1). There was also a fringe of forested upland habitat separating the maintained lawns and training center facility from the PFO and PSS communities surrounding the river (Attachment B, Photos 11 & 12). The dominant trees were black locust (*Robinia pseudoacacia*), basswood (*Tilia americana*), white ash (*Fraxinus americana*), black cherry (*Prunus serotina)*, European buckthorn, chokecherry (*Prunus virginiana*), quaking aspen (*Populus tremuloides*), sugar maple (*Acer saccharum*), Northern red oak (*Quercus rubra*), Northern white oak (*Quercus alba*),

shagbark hickory (*Carya ovata*), and Eastern white pine (*Pinus strobus*). Along the periphery of the forested uplands, where they met the roadside to the north or the transmission right of way to the east, staghorn sumac (*Rhus typhina*), and tree-of-heaven (*Ailanthus altissima*) were also present.

On the east side of the river within the Project Area, the uplands consisted of an existing transmission utility right-of-way (Attachment B, Photo 13 & 14). The transmission corridor is routinely maintained and kept in an herbaceous state. Along the periphery of the forested uplands, where they met the roadside to the north or the transmission right of way to the east, staghorn sumac, and tree-of-heaven were present, along with abundant black locust and hickories, oaks and maples to a lesser degree. The transmission corridor was dominated by a dense herbaceous layer of garlic mustard (*Alliaria petiolata*), with vast stands of invasive honeysuckles (*Lonicera tartarica/morrowi*). The soils in the right of way corridor were a mixed, compressed sandy loam, and the dense coverage of invasive plants provided no exposed soils that would make adequate nesting sites.

Overall, the upland habitat within the Project boundary does not function as Blanding's turtle habitat. It may serve as transitory habitat for turtles moving from the river to other environs, but its lack of seeps/spring/vernal pools, dense overstory, and compacted soils does not present ideal opportunities for foraging, thermoregulation, or nesting. The mowed and maintained lawns around the training center could are suboptimal for nesting as the soils are a heavy compacted silty loam, and the area is routinely mowed. Any hatchlings that emerged from such a nest would have to contend with weekly mowing, and potential dispersion across large, paved areas and busy roads.

4.0 SUMMARY

This Blanding's turtle Habitat Assessment Plan has been prepared for the Site to assess the potential presence of Blanding's turtle habitat. In summary, the site provides suitable habitat along the wetlands flanking the Fall Kill, but the surrounding uplands do not provide much to support the life cycle of the species. After a thorough examination of the area on June 11 & 12, 2024, no Blanding's turtles, or evidence thereof was recorded onsite. The dense overstory of the surrounding forested and shrub habitats precludes basking, nesting, and foraging opportunities for Blanding's turtles. A lack of seasonal wetlands onsite means a lack of additional valuable food sources away from the river, which would induce Blanding's turtles to move from this feature inland towards the facility. With that, the Fall Kill and the small PEM wetlands along its banks do contain the necessary parameters to be considered decent habitat for Blanding's turtles. The perennial river provides an easy access route for animals to disperse through the region, with the small PEM wetland providing temporary habitat for animals to forage, bask, and mate before moving on to better seasonal habitat. The river and these wetlands may provide winter refugia

opportunities as well, though the large deep impoundment on Creek Road to the south is a more likely destination than the small wetlands found onsite.

Overall, the Fall Kill and the PEM segments of the surrounding wetlands on site are potential core habitat for the species. The adjacent PSS and PFO portions of these wetlands are dense, with poor sunlight penetration at ground level, lack any exposed sandy soils suitable for nesting, and abut areas of high human and vehicular traffic, which is why they should be considered potential associated wetland habitat. The surrounding uplands suffer from the same dense canopies of invasive species, lack of exposed sandy soils, and high traffic areas unsuitable for Blanding's turtles. With no seasonal wetlands or prime nesting areas onsite to induce turtles to move inland from Fall Kill, this Site offers marginal quality habitat that is generally unsuitable except perhaps for transient habitat use during seasonal movements.

5.0 REFERENCES

Kiviat, E. 1993. Tale of two turtles: Conservation of the Blanding's turtle and bog turtle. News from Hudsonia 9:1-7.

Mirick, Peter G., Tom French, and Jacob Kubel. 2016. A Field Guide to the Amphibians and Reptiles of Massachusetts. Massachusetts Division of Fisheries and Wildlife, 1 Rabbit Hill Road, Westborough, MA 01581.

Massachusetts Division of Fisheries and Wildlife (MDFW) 2009. Natural Heritage & Endangered Species Program. Mowing Advisory Guidelines in Rare Turtle Habitat: Pastures, Successional Fields, and Hayfields. Accessed Online May 2024: https://www.mass.gov/doc/mowing-guidelines-in-rare-turtle-habitat/download

Massachusetts Division of Fisheries and Wildlife (MDFW) 2015. Natural Heritage & Endangered Species Program. Fact Sheet Blanding's Turtle (*Emydiodea blandingii*). Accessed Online May 2024: https://www.mass.gov/doc/blandings-turtle/download

New York Natural History Program (NYNHP). 2024. Blanding's Turtle Guide. https://guides.nynhp.org/blandings-turtle/

New York State Department of Environmental Conservation, Division of Fish, Wildlife, and Marine Resources. 2024. Blanding's Turtle Fact Sheet. http://www.dec.ny.gov/animals/7166.html.

New York State Department of Environmental Conservation. 2010.Guidelines for reviewing projects for potential impacts to the Blanding's turtle. New York State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources, Albany, New York. 7 pp.

NYSDEC. 1995. Freshwater wetlands delineation manual. New York State Department of Environmental Conservation.

Ross, A.M., and G. Johnson. 2018. Conservation Plan for populations of the Blanding's turtle (*Emydoidea blandingii*). New York State Department of Environmental Conservation, Albany, New York. 98pp.

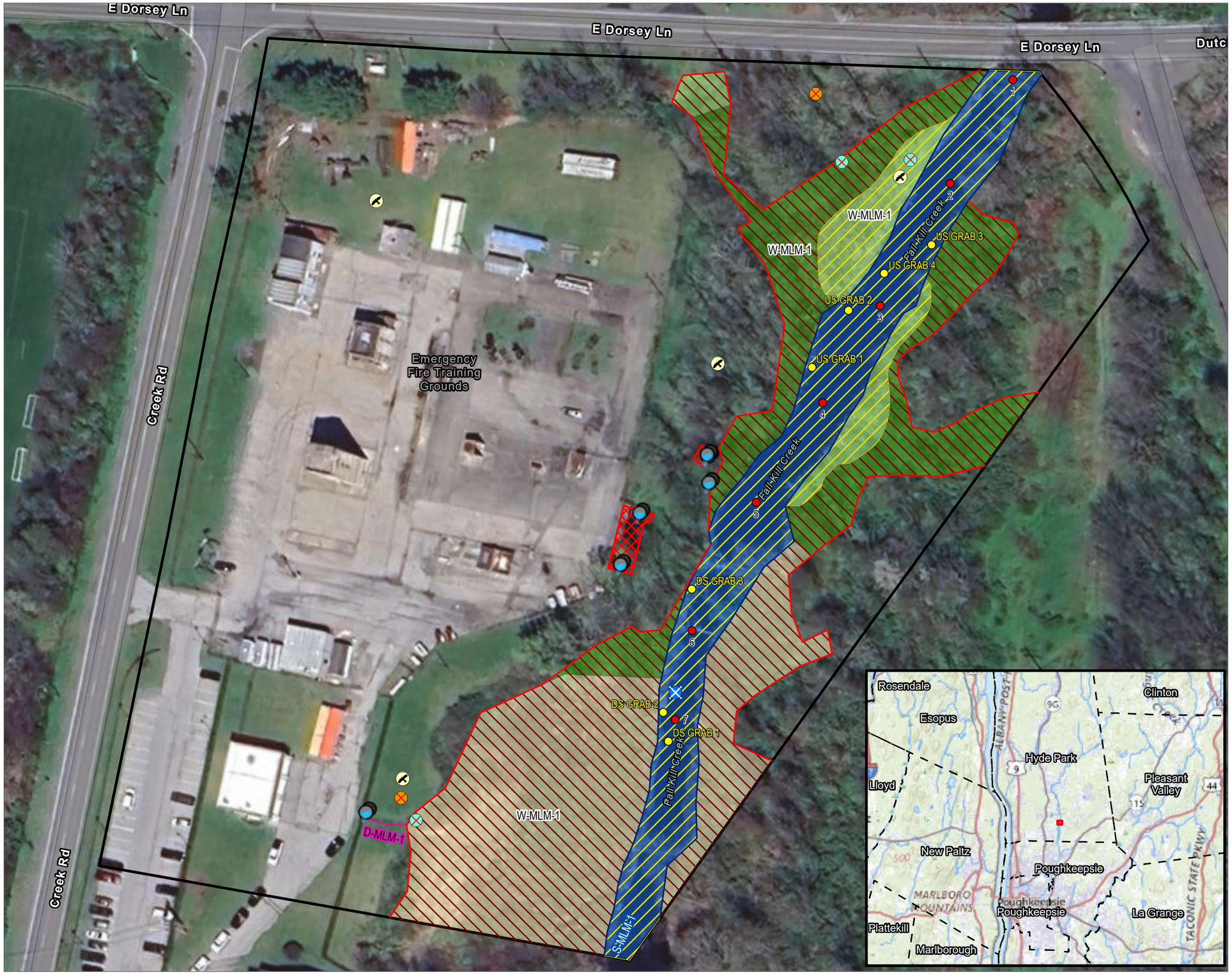
United States Army Corps of Engineers (USACE). 1987. Corps of Engineers Wetlands Delineation Manual. Final Report. Wetlands Research Program Technical Report Y-87-1 (on-line edition), Waterways Experiment Station, Environmental Laboratory, Vicksburg, Mississippi. 143 pp.

United States Army Corps of Engineers (USACE). (2012). *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2.0). U.S. Army Engineer Research and Development Center, Vicksburg, MS, 162 pp.

United States Fish and Wildlife Service (USFWS). (2020). *Guidelines for Bog Turtle Surveys for the Northern Population Range* (Revised April 29, 2020). https://www.fws.gov/media/guidelines-bog-turtle-surveys-phase-1-and-2-surveys

Attachment A

Figures



- BENTHIC INVERTEBRATE GRAB LOCATIONS
- WATER SAMPLE
- BIRD SURVEY LOCATION
- CULVERT
- STREAM PLOT
- WETLAND DATA POINT
- UPLAND DATA POINT
- NON JD DRAINAGE LINE
- WETLAND BOUNDARY LINE
- BANK/EDGE
- CORE TURTLE HABITAT
- ASSOCIATED TURTLE HABITAT
- CONCRETE WATER IMPOUNDMENT
- STREAM
- PEM
- PFO
- PSS
- PROJECT BOUNDARY

BASE MAP: ESRI WORLD IMAGERY (CLARITY)
DATA SOURCES: ESRI, USGS, TRC

N

1:900
1" = 75'

0 25 50 75 100 125 150 175 200 FEET

PROJECT: **NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD, HYDE PARK, DUTCHESS COUNTY, NEW YORK

TITLE:
TURTLE HABITAT ASSESSMENT MAP

DRAWN BY:	J. CORSO	PROJ. NO.:	403739.0000.0000
CHECKED BY:	J. FREDENBURG		
APPROVED BY:	D. CHOQUETTE		**FIGURE 1**
DATE:	JANUARY 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: DCFT_Figures.aprx

Coordinate System: NAD 1983 2011 StatePlane New York East FIPS 3101 Ft US. Map Rotation: 0
Saved By: JCORSO on 1/22/2025 - 11:17:31 PM - File Path: T:\PROJECTS\NYSDEC-403739\DutchessCounty\FireTraining\2-4\APRX\DCFT_Figures.aprx - Layout Name: NYSDEC - Dutchess_County_Fig1_Turtle_Habitat

Attachment B
Photo Log





Dutchess County Fire Training Center
Turtle Habitat Assessment

TRC
63 Marginal way, 4th Floor, Portland, ME 04101

Photo 1 (Above). A view southward of the wood line and across the maintained lawn toward the training center.

Photo 2 (Below). A view south of the Fall Kill River from the East Dorsey Street Lane bridge showing aquatic vegetation and river substrate.





Dutchess County Fire Training Center
Turtle Habitat Assessment

TRC
63 Marginal way, 4th Floor, Portland, ME 04101

Photo 3 (Above). A photo of the palustrine forested wetland flanking the Fall Kill River (foreground) and the emergent segment of the same wetland on the west side of the river. (right side of channel in photo).

Photo 4 (Below). A photo of the palustrine emergent segment of the wetland on the west side of the Fall Kill River.





Dutchess County Fire Training Center
Turtle Habitat Assessment

63 Marginal way, 4th Floor, Portland, ME 04101

Photo 5 (Above). A closeup of the emergent vegetation that comprises the palustrine emergent portions of wetland MLM1.

Photo 6 (Below). Additional PEM vegetation and soft mucky substrate in PEM of MLM1





Dutchess County Fire Training Center
Turtle Habitat Assessment

63 Marginal way, 4th Floor, Portland, ME 04101

Photo 7 (Above). Facing east across the Fall Kill at the small PEM wetland segment on the eastern bank.

Photo 8 (Below). Looking Northeast across the Fall Kill from southern boundary of the study area.





Dutchess County Fire Training Center
Turtle Habitat Assessment

63 Marginal way, 4th Floor, Portland, ME 04101

Photo 9 (Above). A view facing east from the Fire training center, looking at the Palustrine scrub-shrub wetland in the southern half of the study area.

Photo 10 (Below). Dense forested wetland along the western edge of wetland MLM1





Dutchess County Fire Training Center
Turtle Habitat Assessment

63 Marginal way, 4th Floor, Portland, ME 04101

Photo 11 (Above). Looking west at the training center from the scrub-shrub wetland segment.

Photo 12 (Below). Dense upland dominated by black locust separates the training center from the Fall Kill and its related wetlands.





Dutchess County Fire Training Center
Turtle Habitat Assessment

TRC
63 Marginal way, 4th Floor, Portland, ME 04101

Photo 13 (Above). A view south along the transmission line ROW on the eastern side of the Fall Kill.

Photo 14 (Below). A view of the transmission corridor showing dense groundcover and thick upland forest flanking the Fall Kill.

Attachment C
Agency Consultation - NYNHP Response

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

September 8, 2022

Keith Cardinali
TRC
215 Greenfield Parkway, Suite 102
Liverpool , NY 13088

Re: Dutchess County Fire Training Center (DCFTC)
County: Dutchess Town/City: Hyde Park

Dear Keith Cardinali:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at the project site.

Within 2/3 mile of the project site is a documented location of **Blanding's turtle** (*Emydoidea blandingii*, state listed as Threatened). Individual animals may travel 0.81 mile from documented locations. For information about any permit considerations for your project, please contact the Permits staff at the NYSDEC Region 3 Office, Division of Environmental Permits, at dep.r3@dec.ny.gov.

For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

For information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the Permits staff at the NYSDEC Region 3 Office as described above.

Sincerely,

Heidi Krahling
Environmental Review Specialist
New York Natural Heritage Program

663

Attachment 13

Tree Survey Summary Report

TRC
63 Marginal Way
4th Floor
Portland, ME 04101

Tree Survey Summary Report

Project Name:	Dutchess County Fire Training Center Project (314128)
Client:	New York Department of Environmental Conservation - Division of Environmental Remediation
TRC Project Manager:	Justin King
CC:	Duane Choquette (TRC)
Date:	January 23, 2025

Introduction:

TRC Environmental Corporation (TRC) is pleased to provide this Tree Survey Summary Report for the Dutchess County Fire Training Center located in Hyde Park, New York (the "Survey Area"). The Survey Area is approximately 9.7 acres in size and consists of a previously developed fire training center and undeveloped wooded land (Attachment A). TRC conducted the survey of trees within the wooded area adjacent to the existing facility and west of the Fall Kill. TRC completed the tree survey field visit in September 2024.

Attachment A provides a tree survey map of the Survey Area, Attachment B provides an informational table of all trees documented within the Survey Area.

Methodology:

Prior to conducting the tree survey, TRC environmental scientists completed a desktop review of available online data to gain a preliminary understanding of potential resources that may occur within the Survey Area.

TRC environmental scientist conducted the field visit on September 18, 2024. During the field survey TRC scientists measured all trees greater than 3 inches Diameter at Breast Height (DBH) utilizing a standard tree fabric diameter tape within the entire Survey Area. Surveyed trees were then documented utilizing a handheld GPS unit with sub-meter accuracy. Each tree was assessed with respect to its identification of species and DBH.

Results:

The land use within the Survey Area is primarily commercial; however, mixed recreational and residential areas are on its borders. The Site is bordered to the north by East Dorsey Lane and residential properties; to the west by Creek Road and recreational sporting fields (Hyde Park Memorial Fields); to the south by the Dutchess County Emergency Response facility, undeveloped-forested land, Fall Kill, and wetlands; and to the east by a transmission line right-of-way, undeveloped forested land, and residential properties.

Uplands observed within the Survey Area generally consist of dense herbaceous vegetation adjacent to the existing facility and moderately dense forested land with a spare understory within the eastern portion of the Survey Area. Wetlands within the Survey Area generally consist of palustrine emergent (PEM) and palustrine scrub-shrub (PSS) wetlands directly adjacent to the eastern and western banks of Fall Kill.

During the tree survey TRC documented 334 trees with a DBH greater than 3" within the Survey Area. Tree species recorded included black locust (*Robinia pseudoacacia*), American elm (*Ulmus americana*), domestic apple (*Malus pumila*), basswood (*Tilia americana*), black cherry (*Prunus serotina*), black willow (*Salix nigra*), European buckthorn (*Rhamnus cathartica*), Eastern white cedar (*Thuja occidentalis*), chokecherry (*Prunus virginiana*), green ash (*Fraxinus pennsylvanic*a), Eastern cottonwood (*Populus deltoides*), American hornbeam (*Carpinus caroliniana*), pin cherry (*Prunus pensylvanica*), quaking aspen (*Populus tremuloides*), red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), Northern red oak (*Quercus rubra*), Northern white oak (*Quercus alba*), shagbark hickory (*Carya ovata*), staghorn sumac (*Rhus typhina*), tree-of-heaven (*Ailanthus altissima*), Eastern white pine (*Pinus strobus*) and white ash (*Fraxinus americana*).

Attachments:

Attachment A: Figure 1 - Tree Survey Map

Attachment B: Tree Survey Table

Attachment A:

Figure 1 - Tree Survey Map



TREE COMMON NAME

- AMERICAN ELM (9 OBSERVED)
- AMERICAN HORNBEAM (1 OBSERVED)
- BASSWOOD (2 OBSERVED)
- BLACK CHERRY (4 OBSERVED)
- BLACK LOCUST (65 OBSERVED)
- BLACK WILLOW (8 OBSERVED)
- CHOKECHERRY (7 OBSERVED)
- DOMESTIC APPLE (4 OBSERVED)
- EASTERN COTTONWOOD (1 OBSERVED)
- EASTERN WHITE CEDAR (2 OBSERVED)
- EASTERN WHITE PINE (15 OBSERVED)
- EASTERN WHITE CEDAR (1 OBSERVED)
- EUROPEAN BUCKTHORN (18 OBSERVED)
- GREEN ASH (39 OBSERVED)
- NORTHERN RED OAK (6 OBSERVED)
- NORTHERN WHITE OAK (1 OBSERVED)
- PIN CHERRY (1 OBSERVED)
- QUAKING ASPEN (1 OBSERVED)
- RED MAPLE (32 OBSERVED)
- SHAGBARK HICKORY (8 OBSERVED)
- STAGHORN SUMAC (18 OBSERVED)
- SUGAR MAPLE (21 OBSERVED)
- TREE OF HEAVEN (38 OBSERVED)
- WHITE ASH (4 OBSERVED)
- STATION BOUNDARY

BASE MAP: ESRI "WORLD IMAGERY" ONLINE SERVICE LAYER.
DATA SOURCES: TRC

N

1:900
1" = 75'

0 75 150 FEET

PROJECT: **NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
DUTCHESS COUNTY FIRE TRAINING CENTER - SITE NO. 314128
392 CREEK ROAD, HYDE PARK, DUTCHESS COUNTY, NEW YORK

TITLE: **TREE SURVEY**

DRAWN BY:	J. CORSO	PROJ. NO.:	453208.0007.0010
CHECKED BY:	J. FREDENBURG		
APPROVED BY:	D. CHOQUETTE		**FIGURE 1**
DATE:	JANUARY 2025		

TRC
3 CORPORATE DRIVE
SUITE 202
CLIFTON PARK, NY 12065
PHONE: 518.348.1190

FILE: DCFT_Figures.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
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Attachment B:

Tree Survey Table

Tree Number	Common Name	Latin Name	DBH	Latitude	Longitude
1	Black Locust	*Robinia pseudoacacia*	8.28	41.748857	-73.897675
2	American Elm	*Ulmus americana*	8.44	41.748825	-73.896312
3	American Elm	*Ulmus americana*	9.87	41.748814	-73.896319
4	American Elm	*Ulmus americana*	17.52	41.747909	-73.896801
5	American Elm	*Ulmus americana*	18.79	41.748911	-73.897682
6	American Elm	*Ulmus americana*	14.01	41.74892	-73.897473
7	American Elm	*Ulmus americana*	5.10	41.747663	-73.89776
8	American Elm	*Ulmus americana*	4.78	41.748838	-73.896396
9	American Elm	*Ulmus americana*	12.10	41.747765	-73.897424
10	American Elm	*Ulmus americana*	5.73	41.748064	-73.897388
11	Domestic Apple	*Malus pumila*	5.25	41.747676	-73.897404
12	Domestic Apple	*Malus pumila*	7.96	41.748087	-73.89727
13	Basswood	*Tilia americana*	15.76	41.748279	-73.896473
14	Basswood	*Tilia americana*	30.25	41.748879	-73.897402
15	White Ash	*Fraxinus americana*	6.21	41.7489	-73.896282
16	White Ash	*Fraxinus americana*	13.06	41.748904	-73.896303
17	White Ash	*Fraxinus americana*	8.28	41.748898	-73.896331
18	Black Cherry	*Prunus serotina*	13.38	41.747895	-73.896763
19	Black Cherry	*Prunus serotina*	5.10	41.748848	-73.896391
20	Black Cherry	*Prunus serotina*	6.37	41.74879	-73.896375
21	Black Cherry	*Prunus serotina*	8.92	41.748856	-73.89754
22	Black Locust	*Robinia pseudoacacia*	30.25	41.748869	-73.898479
23	Black Locust	*Robinia pseudoacacia*	19.11	41.748854	-73.897619
24	Black Locust	*Robinia pseudoacacia*	19.11	41.748881	-73.897585
25	Black Locust	*Robinia pseudoacacia*	35.03	41.748902	-73.897563
26	Black Locust	*Robinia pseudoacacia*	19.27	41.748855	-73.897472
27	Black Locust	*Robinia pseudoacacia*	5.41	41.74884	-73.897391
28	Black Locust	*Robinia pseudoacacia*	12.74	41.748824	-73.897381
29	Black Locust	*Robinia pseudoacacia*	11.15	41.747676	-73.897709
30	Black Locust	*Robinia pseudoacacia*	31.85	41.747723	-73.89759
31	Black Locust	*Robinia pseudoacacia*	7.32	41.747679	-73.897412
32	Black Locust	*Robinia pseudoacacia*	31.85	41.747722	-73.897381
33	Black Locust	*Robinia pseudoacacia*	7.01	41.747689	-73.897435
34	Black Locust	*Robinia pseudoacacia*	7.64	41.747702	-73.897472
35	Black Locust	*Robinia pseudoacacia*	4.78	41.747755	-73.897396
36	Black Locust	*Robinia pseudoacacia*	9.55	41.747775	-73.89744
37	Black Locust	*Robinia pseudoacacia*	17.52	41.747796	-73.897422
38	Black Locust	*Robinia pseudoacacia*	9.87	41.747818	-73.897385
39	Black Locust	*Robinia pseudoacacia*	38.22	41.747834	-73.897388
40	Black Locust	*Robinia pseudoacacia*	9.71	41.747908	-73.897352
41	Black Locust	*Robinia pseudoacacia*	8.60	41.747945	-73.897287
42	Black Locust	*Robinia pseudoacacia*	12.42	41.74805	-73.897295
43	Black Locust	*Robinia pseudoacacia*	31.85	41.748092	-73.897343
44	Black Locust	*Robinia pseudoacacia*	27.55	41.748111	-73.897243
45	Black Locust	*Robinia pseudoacacia*	5.41	41.748131	-73.897254
46	Black Locust	*Robinia pseudoacacia*	14.33	41.748151	-73.897346
47	Black Locust	*Robinia pseudoacacia*	10.83	41.748163	-73.897254
48	Black Locust	*Robinia pseudoacacia*	16.24	41.748175	-73.897247
49	Black Locust	*Robinia pseudoacacia*	5.41	41.748225	-73.897253
50	Black Locust	*Robinia pseudoacacia*	16.24	41.748213	-73.897246
51	Black Locust	*Robinia pseudoacacia*	7.64	41.748198	-73.897245
52	Black Locust	*Robinia pseudoacacia*	15.29	41.748184	-73.897252
53	Black Locust	*Robinia pseudoacacia*	9.24	41.748223	-73.897212
54	Black Locust	*Robinia pseudoacacia*	14.33	41.748211	-73.897214
55	Black Locust	*Robinia pseudoacacia*	13.38	41.748198	-73.897097
56	Black Locust	*Robinia pseudoacacia*	14.65	41.748237	-73.897094
57	Black Locust	*Robinia pseudoacacia*	9.24	41.748277	-73.897119

58	Black Locust	*Robinia pseudoacacia*	11.31	41.748254	-73.897172
59	Black Locust	*Robinia pseudoacacia*	9.87	41.748297	-73.897163
60	Black Locust	*Robinia pseudoacacia*	7.32	41.748305	-73.897176
61	Black Locust	*Robinia pseudoacacia*	25.48	41.748479	-73.897087
62	Black Locust	*Robinia pseudoacacia*	9.24	41.748496	-73.8971
63	Black Locust	*Robinia pseudoacacia*	7.96	41.74852	-73.897078
64	Black Locust	*Robinia pseudoacacia*	52.55	41.748521	-73.897141
65	Black Locust	*Robinia pseudoacacia*	8.28	41.748527	-73.897202
66	Black Locust	*Robinia pseudoacacia*	7.96	41.748491	-73.897181
67	Black Locust	*Robinia pseudoacacia*	9.55	41.748462	-73.897157
68	Black Locust	*Robinia pseudoacacia*	10.83	41.748463	-73.897134
69	Black Locust	*Robinia pseudoacacia*	13.06	41.748452	-73.897123
70	Black Locust	*Robinia pseudoacacia*	10.51	41.748421	-73.897098
71	Black Locust	*Robinia pseudoacacia*	11.15	41.748438	-73.897151
72	Black Locust	*Robinia pseudoacacia*	28.03	41.748272	-73.897203
100	Black Locust	*Robinia pseudoacacia*	19.11	41.748281	-73.897217
101	Black Locust	*Robinia pseudoacacia*	19.11	41.748431	-73.897249
102	Black Locust	*Robinia pseudoacacia*	10.99	41.748352	-73.897214
103	Black Locust	*Robinia pseudoacacia*	11.62	41.748363	-73.897182
104	Black Locust	*Robinia pseudoacacia*	22.13	41.748338	-73.897157
105	Black Locust	*Robinia pseudoacacia*	15.61	41.74833	-73.897099
106	Black Locust	*Robinia pseudoacacia*	8.92	41.748351	-73.89706
107	Black Locust	*Robinia pseudoacacia*	14.33	41.748376	-73.897145
108	Black Locust	*Robinia pseudoacacia*	14.33	41.748397	-73.897176
109	Black Locust	*Robinia pseudoacacia*	6.69	41.748425	-73.897164
110	Black Locust	*Robinia pseudoacacia*	12.42	41.748419	-73.897164
111	Black Locust	*Robinia pseudoacacia*	11.15	41.748402	-73.897107
112	Black Locust	*Robinia pseudoacacia*	13.38	41.748401	-73.897066
113	Black Willow	*Salix nigra*	5.73	41.74887	-73.89767
114	Black Willow	*Salix nigra*	31.85	41.747702	-73.897637
115	Black Willow	*Salix nigra*	17.52	41.747702	-73.897621
116	Black Willow	*Salix nigra*	14.33	41.747877	-73.897485
117	Black Willow	*Salix nigra*	22.29	41.747895	-73.897466
118	Black Willow	*Salix nigra*	7.01	41.748252	-73.897097
119	White Ash	*Fraxinus americana*	9.55	41.748919	-73.896281
120	European Buckthorn	*Rhamnus cathartica*	4.14	41.748846	-73.896398
121	European Buckthorn	*Rhamnus cathartica*	3.50	41.748832	-73.896381
122	European Buckthorn	*Rhamnus cathartica*	3.98	41.748834	-73.896413
123	European Buckthorn	*Rhamnus cathartica*	2.23	41.748797	-73.896375
124	European Buckthorn	*Rhamnus cathartica*	3.82	41.74879	-73.896387
125	European Buckthorn	*Rhamnus cathartica*	4.04	41.748812	-73.896368
126	European Buckthorn	*Rhamnus cathartica*	23.09	41.748768	-73.896331
127	European Buckthorn	*Rhamnus cathartica*	16.24	41.748619	-73.896412
128	European Buckthorn	*Rhamnus cathartica*	13.06	41.747737	-73.897563
129	European Buckthorn	*Rhamnus cathartica*	6.37	41.747829	-73.897397
130	European Buckthorn	*Rhamnus cathartica*	8.92	41.747594	-73.897053
131	European Buckthorn	*Rhamnus cathartica*	4.46	41.748118	-73.897249
132	European Buckthorn	*Rhamnus cathartica*	12.42	41.748126	-73.897254
133	European Buckthorn	*Rhamnus cathartica*	4.14	41.748136	-73.89725
134	European Buckthorn	*Rhamnus cathartica*	6.69	41.748183	-73.897283
135	European Buckthorn	*Rhamnus cathartica*	8.28	41.74826	-73.897197
136	European Buckthorn	*Rhamnus cathartica*	9.24	41.74852	-73.897123
137	European Buckthorn	*Rhamnus cathartica*	4.46	41.748711	-73.896898
138	Eastern White cedar	*Thuja occidentalis*	3.50	41.748789	-73.896384
139	Chokecherry	*Prunus virginiana*	4.46	41.748915	-73.896286
140	Chokecherry	*Prunus virginiana*	11.78	41.748301	-73.896553
140	Chokecherry	*Prunus virginiana*	15.29	41.748462	-73.89637
141	Chokecherry	*Prunus virginiana*	3.50	41.748889	-73.897007
142	Chokecherry	*Prunus virginiana*	5.10	41.74888	-73.896981
143	Chokecherry	*Prunus virginiana*	13.54	41.748261	-73.896439
144	Chokecherry	*Prunus virginiana*	10.51	41.747862	-73.896972

145	Eastern Cottonwood	*Populus deltoides*	9.08	41.747714	-73.89747
146	Domestic Apple	*Malus pumila*	3.82	41.747941	-73.89742
147	Domestic Apple	*Malus pumila*	6.37	41.747928	-73.897311
148	Green Ash	*Fraxinus pennsylvanica*	11.15	41.748715	-73.896353
149	Green Ash	*Fraxinus pennsylvanica*	10.51	41.748719	-73.896346
150	Green Ash	*Fraxinus pennsylvanica*	3.50	41.748584	-73.896358
151	Green Ash	*Fraxinus pennsylvanica*	5.10	41.748585	-73.896287
152	Green Ash	*Fraxinus pennsylvanica*	4.46	41.748526	-73.896278
153	Green Ash	*Fraxinus pennsylvanica*	5.73	41.748516	-73.896351
154	Green Ash	*Fraxinus pennsylvanica*	4.46	41.748442	-73.896361
155	Green Ash	*Fraxinus pennsylvanica*	3.82	41.74835	-73.896398
156	Green Ash	*Fraxinus pennsylvanica*	5.57	41.748333	-73.896389
157	Green Ash	*Fraxinus pennsylvanica*	5.10	41.748343	-73.896413
158	Green Ash	*Fraxinus pennsylvanica*	12.74	41.748297	-73.89647
159	Green Ash	*Fraxinus pennsylvanica*	5.25	41.748319	-73.896521
160	Green Ash	*Fraxinus pennsylvanica*	6.05	41.748335	-73.896563
161	Green Ash	*Fraxinus pennsylvanica*	15.61	41.748353	-73.896591
162	Green Ash	*Fraxinus pennsylvanica*	9.24	41.748396	-73.896646
163	Green Ash	*Fraxinus pennsylvanica*	8.60	41.748355	-73.896663
164	Green Ash	*Fraxinus pennsylvanica*	16.24	41.748309	-73.896665
165	Green Ash	*Fraxinus pennsylvanica*	9.87	41.748236	-73.896611
166	Green Ash	*Fraxinus pennsylvanica*	7.32	41.748198	-73.896708
167	Green Ash	*Fraxinus pennsylvanica*	2.87	41.748157	-73.896653
168	Green Ash	*Fraxinus pennsylvanica*	2.87	41.748149	-73.896701
169	Green Ash	*Fraxinus pennsylvanica*	2.55	41.74816	-73.896738
170	Green Ash	*Fraxinus pennsylvanica*	13.38	41.748017	-73.896686
171	Green Ash	*Fraxinus pennsylvanica*	3.82	41.74805	-73.896825
172	Green Ash	*Fraxinus pennsylvanica*	4.78	41.748047	-73.896849
173	Green Ash	*Fraxinus pennsylvanica*	32.17	41.747972	-73.896862
174	Green Ash	*Fraxinus pennsylvanica*	11.15	41.747608	-73.897074
175	Green Ash	*Fraxinus pennsylvanica*	3.50	41.74764	-73.896909
176	Green Ash	*Fraxinus pennsylvanica*	4.14	41.747673	-73.896947
177	Green Ash	*Fraxinus pennsylvanica*	18.15	41.748855	-73.897095
178	Green Ash	*Fraxinus pennsylvanica*	8.92	41.748847	-73.897061
179	Green Ash	*Fraxinus pennsylvanica*	3.18	41.748375	-73.897054
180	Green Ash	*Fraxinus pennsylvanica*	5.89	41.748423	-73.897193
181	Green Ash	*Fraxinus pennsylvanica*	4.14	41.748535	-73.897174
182	Green Ash	*Fraxinus pennsylvanica*	3.50	41.748682	-73.896952
183	Green Ash	*Fraxinus pennsylvanica*	4.14	41.74876	-73.896857
184	Green Ash	*Fraxinus pennsylvanica*	9.55	41.748776	-73.897008
185	Green Ash	*Fraxinus pennsylvanica*	9.24	41.748867	-73.896964
186	Green Ash	*Fraxinus pennsylvanica*	4.78	41.748815	-73.896698
187	American Hornbeam	*Carpinus caroliniana*	4.46	41.748855	-73.897114
188	Pin Cherry	*Prunus pensylvanica*	8.92	41.748012	-73.897315
189	Quaking Aspen	*Populus tremuloides*	3.18	41.748803	-73.896412
190	Red Maple	*Acer rubrum*	6.85	41.748411	-73.897059
191	Red Maple	*Acer rubrum*	5.73	41.748919	-73.896322
192	Red Maple	*Acer rubrum*	39.81	41.748696	-73.896392
193	Red Maple	*Acer rubrum*	31.85	41.748858	-73.897861
194	Red Maple	*Acer rubrum*	6.69	41.748897	-73.897441
195	Red Maple	*Acer rubrum*	7.96	41.748907	-73.897421
196	Red Maple	*Acer rubrum*	18.47	41.748764	-73.897276
197	Red Maple	*Acer rubrum*	31.85	41.748795	-73.897228
198	Red Maple	*Acer rubrum*	4.46	41.748816	-73.897154
199	Red Maple	*Acer rubrum*	4.78	41.748857	-73.897111
200	Red Maple	*Acer rubrum*	10.83	41.748884	-73.897032
201	Red Maple	*Acer rubrum*	7.96	41.748897	-73.897008
202	Red Maple	*Acer rubrum*	14.97	41.748773	-73.896851
203	Red Maple	*Acer rubrum*	3.82	41.748128	-73.897249
205	Red Maple	*Acer rubrum*	33.60	41.747654	-73.897717
206	Red Maple	*Acer rubrum*	4.14	41.747505	-73.897687

207	Red Maple	*Acer rubrum*	8.60	41.748158	-73.897241
208	Red Maple	*Acer rubrum*	6.85	41.74776	-73.897535
209	Red Maple	*Acer rubrum*	10.51	41.747786	-73.897476
210	Red Maple	*Acer rubrum*	8.60	41.74778	-73.897479
211	Red Maple	*Acer rubrum*	22.29	41.747769	-73.897475
212	Red Maple	*Acer rubrum*	21.66	41.747713	-73.897414
213	Red Maple	*Acer rubrum*	15.61	41.747707	-73.897444
214	Red Maple	*Acer rubrum*	16.56	41.747717	-73.897446
215	Red Maple	*Acer rubrum*	4.46	41.747716	-73.89748
216	Red Maple	*Acer rubrum*	5.41	41.747725	-73.897495
217	Red Maple	*Acer rubrum*	6.05	41.747696	-73.897501
218	Red Maple	*Acer rubrum*	9.55	41.748472	-73.897163
219	Red Maple	*Acer rubrum*	10.51	41.748617	-73.897155
220	Red Maple	*Acer rubrum*	7.96	41.748167	-73.897243
221	Red Maple	*Acer rubrum*	9.87	41.748245	-73.897087
222	Red Maple	*Acer rubrum*	11.46	41.748317	-73.897129
223	Northern Red Oak	*Quercus rubra*	8.28	41.748777	-73.896333
224	Northern Red Oak	*Quercus rubra*	9.87	41.748624	-73.896357
225	Northern Red Oak	*Quercus rubra*	7.17	41.74829	-73.89648
226	Northern Red Oak	*Quercus rubra*	4.14	41.748799	-73.896752
227	Northern Red Oak	*Quercus rubra*	9.24	41.748066	-73.897351
228	Northern Red Oak	*Quercus rubra*	8.28	41.748225	-73.897322
229	Shagbark Hickory	*Carya ovata*	5.73	41.748817	-73.897145
230	Shagbark Hickory	*Carya ovata*	4.78	41.748281	-73.896462
231	Shagbark Hickory	*Carya ovata*	14.33	41.748874	-73.897549
232	Shagbark Hickory	*Carya ovata*	8.60	41.748855	-73.89712
233	Shagbark Hickory	*Carya ovata*	12.42	41.748822	-73.897051
234	Shagbark Hickory	*Carya ovata*	17.83	41.748822	-73.897003
235	Shagbark Hickory	*Carya ovata*	6.05	41.748889	-73.896983
236	Shagbark Hickory	*Carya ovata*	10.19	41.748876	-73.896977
237	Staghorn Sumac	*Rhus typhina*	3.50	41.748902	-73.896233
238	Staghorn Sumac	*Rhus typhina*	4.46	41.748159	-73.896663
239	Staghorn Sumac	*Rhus typhina*	6.05	41.748121	-73.896762
240	Staghorn Sumac	*Rhus typhina*	5.73	41.748131	-73.896783
241	Staghorn Sumac	*Rhus typhina*	3.18	41.748094	-73.89672
242	Staghorn Sumac	*Rhus typhina*	6.05	41.748102	-73.896748
243	Staghorn Sumac	*Rhus typhina*	2.87	41.748045	-73.896755
244	Staghorn Sumac	*Rhus typhina*	1.59	41.748068	-73.896759
245	Staghorn Sumac	*Rhus typhina*	1.59	41.748064	-73.89677
246	Staghorn Sumac	*Rhus typhina*	1.91	41.748051	-73.896792
247	Staghorn Sumac	*Rhus typhina*	2.87	41.74808	-73.896814
248	Staghorn Sumac	*Rhus typhina*	2.87	41.748063	-73.896838
249	Staghorn Sumac	*Rhus typhina*	2.23	41.748065	-73.896858
250	Staghorn Sumac	*Rhus typhina*	3.82	41.748341	-73.897065
251	Staghorn Sumac	*Rhus typhina*	5.73	41.747882	-73.896832
252	Staghorn Sumac	*Rhus typhina*	2.87	41.74836	-73.897072
253	Staghorn Sumac	*Rhus typhina*	2.87	41.748358	-73.897088
254	Staghorn Sumac	*Rhus typhina*	1.91	41.748394	-73.897106
255	Sugar Maple	*Acer saccharum*	7.64	41.748903	-73.897418
256	Sugar Maple	*Acer saccharum*	3.50	41.748908	-73.897414
257	Sugar Maple	*Acer saccharum*	7.32	41.748881	-73.89742
258	Sugar Maple	*Acer saccharum*	24.52	41.748652	-73.897258
259	Sugar Maple	*Acer saccharum*	95.54	41.748714	-73.896942
260	Sugar Maple	*Acer saccharum*	13.38	41.748802	-73.896879
261	Sugar Maple	*Acer saccharum*	16.24	41.748855	-73.896699
262	Sugar Maple	*Acer saccharum*	7.96	41.748194	-73.89722
263	Sugar Maple	*Acer saccharum*	6.21	41.748333	-73.897128
264	Sugar Maple	*Acer saccharum*	9.87	41.74835	-73.897067
265	Sugar Maple	*Acer saccharum*	5.73	41.748391	-73.897146
266	Sugar Maple	*Acer saccharum*	8.28	41.748398	-73.897135
267	Sugar Maple	*Acer saccharum*	12.10	41.748491	-73.897109

268	Sugar Maple	*Acer saccharum*	5.10	41.748519	-73.897155
269	Sugar Maple	*Acer saccharum*	7.64	41.748525	-73.89714
270	Sugar Maple	*Acer saccharum*	14.65	41.748618	-73.897155
271	Sugar Maple	*Acer saccharum*	7.64	41.748604	-73.897101
272	Sugar Maple	*Acer saccharum*	7.96	41.748671	-73.897111
273	Sugar Maple	*Acer saccharum*	4.46	41.748678	-73.89704
274	Sugar Maple	*Acer saccharum*	8.28	41.748679	-73.896987
275	Sugar Maple	*Acer saccharum*	4.14	41.74869	-73.896923
276	Tree of Heaven	*Ailanthus altissima*	12.74	41.748455	-73.897133
277	Tree of Heaven	*Ailanthus altissima*	9.24	41.748072	-73.896915
278	Tree of Heaven	*Ailanthus altissima*	11.15	41.748898	-73.896922
279	Tree of Heaven	*Ailanthus altissima*	9.55	41.748872	-73.896943
280	Tree of Heaven	*Ailanthus altissima*	17.52	41.748873	-73.896805
281	Tree of Heaven	*Ailanthus altissima*	7.01	41.747259	-73.898128
282	Tree of Heaven	*Ailanthus altissima*	3.82	41.747283	-73.898105
283	Tree of Heaven	*Ailanthus altissima*	3.82	41.748251	-73.897282
284	Tree of Heaven	*Ailanthus altissima*	4.14	41.748266	-73.89727
285	Tree of Heaven	*Ailanthus altissima*	4.46	41.748306	-73.897279
286	Tree of Heaven	*Ailanthus altissima*	6.05	41.748231	-73.89727
287	Tree of Heaven	*Ailanthus altissima*	4.14	41.748202	-73.897128
288	Tree of Heaven	*Ailanthus altissima*	3.50	41.748217	-73.89712
289	Tree of Heaven	*Ailanthus altissima*	5.57	41.748216	-73.897119
290	Tree of Heaven	*Ailanthus altissima*	5.25	41.748322	-73.897176
291	Tree of Heaven	*Ailanthus altissima*	4.78	41.748319	-73.897204
292	Tree of Heaven	*Ailanthus altissima*	5.10	41.748348	-73.897266
293	Tree of Heaven	*Ailanthus altissima*	3.50	41.748356	-73.897266
294	Tree of Heaven	*Ailanthus altissima*	4.46	41.748407	-73.897257
295	Tree of Heaven	*Ailanthus altissima*	3.66	41.748406	-73.897243
296	Tree of Heaven	*Ailanthus altissima*	4.78	41.74842	-73.897252
297	Tree of Heaven	*Ailanthus altissima*	7.32	41.74834	-73.897094
298	Tree of Heaven	*Ailanthus altissima*	13.69	41.748346	-73.897064
299	Tree of Heaven	*Ailanthus altissima*	5.25	41.7484	-73.897099
300	Tree of Heaven	*Ailanthus altissima*	8.92	41.748433	-73.897074
301	Tree of Heaven	*Ailanthus altissima*	8.60	41.748449	-73.897056
302	Tree of Heaven	*Ailanthus altissima*	7.01	41.748473	-73.897056
303	Tree of Heaven	*Ailanthus altissima*	9.08	41.748513	-73.897258
304	Tree of Heaven	*Ailanthus altissima*	3.82	41.748532	-73.897273
305	Tree of Heaven	*Ailanthus altissima*	4.78	41.748616	-73.897271
306	Tree of Heaven	*Ailanthus altissima*	11.46	41.748619	-73.897254
307	Tree of Heaven	*Ailanthus altissima*	4.14	41.748569	-73.897225
308	Tree of Heaven	*Ailanthus altissima*	3.82	41.748717	-73.896885
309	Tree of Heaven	*Ailanthus altissima*	11.15	41.748039	-73.896847
310	Tree of Heaven	*Ailanthus altissima*	6.37	41.747668	-73.897804
311	Tree of Heaven	*Ailanthus altissima*	6.85	41.748334	-73.897246
312	Tree of Heaven	*Ailanthus altissima*	13.38	41.748368	-73.897073
313	Tree of Heaven	*Ailanthus altissima*	4.78	41.748367	-73.897089
314	Eastern White Cedar	*Thuja occidentalis*	13.06	41.748745	-73.896429
316	Eastern White Cedar	*Thuja occidentalis*	4.30	41.748798	-73.896693
317	Northern White Oak	*Quercus alba*	7.64	41.747824	-73.897022
318	Eastern White Pine	*Pinus strobus*	18.79	41.748682	-73.898587
319	Eastern White Pine	*Pinus strobus*	10.51	41.748715	-73.898572
320	Eastern White Pine	*Pinus strobus*	14.97	41.74875	-73.898566
321	Eastern White Pine	*Pinus strobus*	17.20	41.748787	-73.898539
322	Eastern White Pine	*Pinus strobus*	17.83	41.748907	-73.898421
323	Eastern White Pine	*Pinus strobus*	14.97	41.74889	-73.898377
324	Eastern White Pine	*Pinus strobus*	18.79	41.748891	-73.898308
325	Eastern White Pine	*Pinus strobus*	20.38	41.748885	-73.898253
326	Eastern White Pine	*Pinus strobus*	18.47	41.74887	-73.898051
327	Eastern White Pine	*Pinus strobus*	15.61	41.748883	-73.897998
328	Eastern White Pine	*Pinus strobus*	15.92	41.748878	-73.897707
329	Eastern White Pine	*Pinus strobus*	10.19	41.748878	-73.897672

330	Eastern White Pine	*Pinus strobus*	11.46	41.74888	-73.897604
331	Eastern White Pine	*Pinus strobus*	9.24	41.748873	-73.897559
332	Eastern White Pine	*Pinus strobus*	5.73	41.748887	-73.897445
333	Black Willow	*Salix nigra*	14.01	41.748727	-73.896394
334	Black Willow	*Salix nigra*	11.78	41.748877	-73.896339

Attachment 14

Data Usability Summary Reports

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-221606-1
Laboratory: Eurofins, Buffalo, New York, Burlington, Vermont
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: November 8, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-SN-101	480-221606-1	Soil
2	DCFTC-SN-102	480-221606-2	Soil
3	DCFTC-SN-103	480-221606-3	Soil
4	DCFTC-SN-104	480-221606-4	Soil
5	DCFTC-SN-105	480-221606-5	Soil
6	DCFTC-SN-106	480-221606-6	Soil
7	DCFTC-SN-107	480-221606-7	Soil
8	DCFTC-SN-108	480-221606-8	Soil
9	DUP-01	480-221606-9	Soil
10	DCFTC-TP-101	480-221606-10	Soil
11	DCFTC-TP-102	480-221606-11	Soil
12	DCFTC-TP-103	480-221606-12	Soil
13	DCFTC-TP-104	480-221606-13	Soil
14	DCFTC-TP-105	480-221606-14	Soil
15	DCFTC-TP-106	480-221606-15	Soil
16	DCFTC-TP-107	480-221606-16	Soil

A Data Usability Summary Review was performed on the analytical data for sixteen soil samples collected on July 2, 2024 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	USEPA Method 537.1M

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the New York State Department of Environmental Conservation (NYSDEC) Data Review Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All samples were extracted within 28 days for soil samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were meet.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- EDS samples 10 and 11 exhibited high and low % recoveries for various surrogates. The associated compounds were qualified estimated (UJ). See Form Is summary for details.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
3	PFOS	-16%/-166%/OK	None - 4X Rule Applies

Laboratory Control Samples

- The LCS/LCSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples exhibited compounds with an ion ratio outside of QC limits and were flagged (I) by the laboratory. These results were qualified as estimated (J).

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	DCFTC-SN-103 ug/kg	DUP-01 ug/kg	RPD	Qualifier
PFBS	0.18	0.18	0%	None
PFDA	0.77	0.87	12%	
PFDoA	0.95	1.0	5%	
PFHpS	0.76	0.81	6%	
PFHpA	0.73	0.77	5%	
PFHxS	3.8	3.9	3%	
PFHxA	1.1	1.1	0%	
PFNA	0.45	0.45	0%	
PFOSA	2.3	2.2	4%	
PFOS	82	95	15%	
PFOA	1.5	1.7	13%	
PFTeA	0.73	0.82	12%	
PFTriA	0.36	0.44	20%	
PFUnA	0.51	0.60	16%	
PFPeA	0.94	0.94	0%	
6:2 FTS	9.1	8.7	4%	
8:2 FTS	8.7	9.4	8%	
PFDS	0.18	0.23	24%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/13/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-SN-101 Lab Sample ID: 480-221606-1

Matrix: Solid Lab File ID: PB240718A06.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 11:40

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.06(g) Date Analyzed: 07/18/2024 14:48

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 0.5 % Solids: 99.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		9.5	0.36
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		9.5	0.36
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.95	0.13
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.4	0.85
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.95	0.14
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.95	0.14
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.95	0.11
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.95	0.14
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.95	0.16
307-24-4	Perfluorohexanoic acid (PFHxA)	0.22	J	0.95	0.16
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.95	0.13
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.95	0.15
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.95	0.44
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.95	0.18
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.95	0.12
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.95	0.15
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.95	0.14
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.95	0.26
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.1	J	9.5	0.29
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.4	J	9.5	0.19
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.95	0.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-SN-102 Lab Sample ID: 480-221606-2

Matrix: Solid Lab File ID: PB240718A07.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 11:50

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.03(g) Date Analyzed: 07/18/2024 14:56

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 0.5 % Solids: 99.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		9.8	0.37
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		9.8	0.37
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.62	J	0.98	0.14
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.4	0.88
335-76-2	Perfluorodecanoic acid (PFDA)	0.14	J	0.98	0.14
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.98	0.14
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.56	J	0.98	0.12
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.46	J	0.98	0.15
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.2		0.98	0.17
307-24-4	Perfluorohexanoic acid (PFHxA)	1.0		0.98	0.17
375-95-1	Perfluorononanoic acid (PFNA)	0.15	J	0.98	0.13
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.35	J	0.98	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35		0.98	0.45
335-67-1	Perfluorooctanoic acid (PFOA)	1.1		0.98	0.18
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.98	0.12
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.98	0.16
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.98	0.14
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.51	J	0.98	0.26
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.0	J	9.8	0.30
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.0	J	9.8	0.20
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.98	0.11

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-SN-103 Lab Sample ID: 480-221606-3

Matrix: Solid Lab File ID: PB240718A08.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 11:55

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.10(g) Date Analyzed: 07/18/2024 15:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 1.5 % Solids: 98.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		9.2	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		9.2	0.35
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	J	0.92	0.13
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.3	0.83
335-76-2	Perfluorodecanoic acid (PFDA)	0.77	J	0.92	0.13
307-55-1	Perfluorododecanoic acid (PFDoA)	0.95		0.92	0.13
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.76	J	0.92	0.11
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.73	J	0.92	0.14
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.8		0.92	0.16
307-24-4	Perfluorohexanoic acid (PFHxA)	1.1		0.92	0.16
375-95-1	Perfluorononanoic acid (PFNA)	0.45	J	0.92	0.12
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.3		0.92	0.15
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	82		0.92	0.43
335-67-1	Perfluorooctanoic acid (PFOA)	1.5		0.92	0.17
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.73	J	0.92	0.12
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.36	J	0.92	0.15
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.51	J	0.92	0.13
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.94		0.92	0.25
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.1	J	9.2	0.29
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	8.7	J	9.2	0.18
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.18	J	0.92	0.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-SN-104 Lab Sample ID: 480-221606-4

Matrix: Solid Lab File ID: PB240718A11.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:15

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.12(g) Date Analyzed: 07/18/2024 15:29

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 0.4 % Solids: 99.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		9.0	0.34
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		9.0	0.34
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.21	J	0.90	0.13
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.2	0.81
335-76-2	Perfluorodecanoic acid (PFDA)	0.15	J	0.90	0.13
307-55-1	Perfluorododecanoic acid (PFDoA)	0.25	J	0.90	0.13
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.18	J	0.90	0.11
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.56	J	0.90	0.13
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.6		0.90	0.15
307-24-4	Perfluorohexanoic acid (PFHxA)	0.82	J	0.90	0.15
375-95-1	Perfluorononanoic acid (PFNA)	0.16	J	0.90	0.12
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.16	J	0.90	0.14
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	22		0.90	0.42
335-67-1	Perfluorooctanoic acid (PFOA)	0.36	J	0.90	0.17
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.29	J	0.90	0.11
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.14	J	0.90	0.14
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.15	J	0.90	0.13
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.35	J	0.90	0.24
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.4	J	9.0	0.28
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.9	J	9.0	0.18
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.90	0.099

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-SN-105 Lab Sample ID: 480-221606-5

Matrix: Solid Lab File ID: PB240718A12.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:20

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.06(g) Date Analyzed: 07/18/2024 15:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 0.7 % Solids: 99.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		9.5	0.36
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		9.5	0.36
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.33	J	0.95	0.13
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.4	0.85
335-76-2	Perfluorodecanoic acid (PFDA)	0.41	J	0.95	0.14
307-55-1	Perfluorododecanoic acid (PFDoA)	0.66	J	0.95	0.14
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.3		0.95	0.11
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.28	J	0.95	0.14
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	7.9		0.95	0.16
307-24-4	Perfluorohexanoic acid (PFHxA)	1.0		0.95	0.16
375-95-1	Perfluorononanoic acid (PFNA)	0.14	J	0.95	0.13
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.91	J	0.95	0.15
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	150		0.95	0.44
335-67-1	Perfluorooctanoic acid (PFOA)	0.78	J	0.95	0.18
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.4		0.95	0.12
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.38	J	0.95	0.15
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.18	J	0.95	0.14
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.40	J	0.95	0.26
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.6	J	9.5	0.29
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.3	J	9.5	0.19
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.23	J	0.95	0.10

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-SN-106 Lab Sample ID: 480-221606-6

Matrix: Solid Lab File ID: PB240718A13.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:30

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.18(g) Date Analyzed: 07/18/2024 15:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 2.4 % Solids: 97.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		8.7	0.33
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		8.7	0.33
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.35	J	0.87	0.12
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.2	0.78
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.87	0.13
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.87	0.13
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.87	0.10
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.62	J	0.87	0.13
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.3		0.87	0.15
307-24-4	Perfluorohexanoic acid (PFHxA)	9.1		0.87	0.15
375-95-1	Perfluorononanoic acid (PFNA)	2.9	I J	0.87	0.12
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.87	0.14
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.1		0.87	0.40
335-67-1	Perfluorooctanoic acid (PFOA)	2.6		0.87	0.16
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.87	0.11
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.87	0.14
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.87	0.13
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.95		0.87	0.23
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	28		8.7	0.27
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.9	J	8.7	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.87	0.096

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-SN-107 Lab Sample ID: 480-221606-7

Matrix: Solid Lab File ID: PB240718A14.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:40

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.05(g) Date Analyzed: 07/18/2024 15:53

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 1.7 % Solids: 98.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		9.7	0.36
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		9.7	0.36
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.8		0.97	0.14
375-22-4	Perfluorobutanoic acid (PFBA)	2.5		2.4	0.87
335-76-2	Perfluorodecanoic acid (PFDA)	1.4		0.97	0.14
307-55-1	Perfluorododecanoic acid (PFDoA)	1.8		0.97	0.14
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.31	J	0.97	0.12
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.2		0.97	0.15
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	6.7		0.97	0.16
307-24-4	Perfluorohexanoic acid (PFHxA)	21		0.97	0.16
375-95-1	Perfluorononanoic acid (PFNA)	2.0		0.97	0.13
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.41	J	0.97	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	15		0.97	0.45
335-67-1	Perfluorooctanoic acid (PFOA)	6.9		0.97	0.18
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.8		0.97	0.12
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.3		0.97	0.16
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.6		0.97	0.14
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.5		0.97	0.26
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	44		9.7	0.30
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	15		9.7	0.19
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.97	0.11

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-SN-108 Lab Sample ID: 480-221606-8

Matrix: Solid Lab File ID: PB240718A15.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:50

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.22(g) Date Analyzed: 07/18/2024 16:01

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 2.6 % Solids: 97.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		8.4	0.32
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		8.4	0.32
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.65	J	0.84	0.12
375-22-4	Perfluorobutanoic acid (PFBA)	1.4	J	2.1	0.76
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.84	0.12
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.84	0.12
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.84	0.10
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.38	J	0.84	0.13
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.68	J	0.84	0.14
307-24-4	Perfluorohexanoic acid (PFHxA)	3.3		0.84	0.14
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.84	0.11
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.84	0.13
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.84	0.39
335-67-1	Perfluorooctanoic acid (PFOA)	0.57	J	0.84	0.16
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.84	0.11
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.84	0.13
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.84	0.12
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.5		0.84	0.23
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	6.4	J	8.4	0.26
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.0	J	8.4	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.84	0.093

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DUP-01 Lab Sample ID: 480-221606-9

Matrix: Solid Lab File ID: PB240718A16.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:00

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 1.21(g) Date Analyzed: 07/18/2024 16:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 1.7 % Solids: 98.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		8.4	0.32
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		8.4	0.32
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.18	J	0.84	0.12
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.1	0.76
335-76-2	Perfluorodecanoic acid (PFDA)	0.87		0.84	0.12
307-55-1	Perfluorododecanoic acid (PFDoA)	1.0		0.84	0.12
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.81	J	0.84	0.10
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.77	J	0.84	0.13
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.9		0.84	0.14
307-24-4	Perfluorohexanoic acid (PFHxA)	1.1		0.84	0.14
375-95-1	Perfluorononanoic acid (PFNA)	0.45	J	0.84	0.11
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.2		0.84	0.13
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	95		0.84	0.39
335-67-1	Perfluorooctanoic acid (PFOA)	1.7		0.84	0.16
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.82	J	0.84	0.11
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.44	J	0.84	0.13
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.60	J	0.84	0.12
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.94		0.84	0.23
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	8.7		8.4	0.26
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.4		8.4	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.23	J	0.84	0.092

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-101 Lab Sample ID: 480-221606-10

Matrix: Solid Lab File ID: PB240718A17.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:50

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.56(g) Date Analyzed: 07/18/2024 16:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 37.3 % Solids: 62.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		28	1.1
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		28	1.1
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.8	0.40
375-22-4	Perfluorobutanoic acid (PFBA)	ND	UJ	7.1	2.6
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.8	0.41
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.8	0.41
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		2.8	0.34
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.8	0.43
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.87	J	2.8	0.48
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.8	0.48
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.8	0.38
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		2.8	0.46
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	8.7		2.8	1.3
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.8	0.53
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND	UJ	2.8	0.36
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND	UJ	2.8	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.8	0.41
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.8	0.77
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.4	J	28	0.88
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.94	J	28	0.57
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.8	0.31

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

10

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-101 Lab Sample ID: 480-221606-10

Matrix: Solid Lab File ID: PB240718A17.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:50

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.56(g) Date Analyzed: 07/18/2024 16:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 37.3 % Solids: 62.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	68		50-150
STL02280	M2-8:2 FTS	79		50-150
STL00996	13C2 PFDA	81		50-150
STL00998	13C2 PFDoA	75		50-150
STL00993	13C2 PFHxA	77		50-150
STL02116	13C2 PFTeDA	48	*5-	50-150
STL00997	13C2 PFUnA	85		50-150
STL00992	13C4 PFBA	38	*5-	50-150
STL01892	13C4 PFHpA	76		50-150
STL00990	13C4 PFOA	78		50-150
STL00995	13C5 PFNA	75		50-150
STL01893	13C5 PFPeA	64		50-150
STL01056	13C8 FOSA	56		50-150
STL00994	18O2 PFHxS	68		50-150
STL02118	d3-NMeFOSAA	74		50-150
STL02117	d5-NEtFOSAA	92		50-150
STL00991	13C4 PFOS	72		50-150
STL02337	13C3 PFBS	69		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-102 Lab Sample ID: 480-221606-11

Matrix: Solid Lab File ID: PB240718A19.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:45

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.57(g) Date Analyzed: 07/18/2024 16:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 27.3 % Solids: 72.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		24	0.90
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		24	0.90
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.4	0.34
375-22-4	Perfluorobutanoic acid (PFBA)	ND	UJ	6.0	2.2
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.4	0.35
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.4	0.35
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		2.4	0.29
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.4	0.36
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.2	J	2.4	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.4	0.41
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.4	0.33
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		2.4	0.39
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	8.2		2.4	1.1
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.4	0.45
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND	UJ	2.4	0.30
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND	UJ	2.4	0.39
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.4	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.4	0.65
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.6	J	24	0.75
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	J	24	0.48
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.4	0.27

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-102 Lab Sample ID: 480-221606-11

Matrix: Solid Lab File ID: PB240718A19.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:45

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.57(g) Date Analyzed: 07/18/2024 16:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 27.3 % Solids: 72.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	90		50-150
STL02280	M2-8:2 FTS	89		50-150
STL00996	13C2 PFDA	85		50-150
STL00998	13C2 PFDoA	79		50-150
STL00993	13C2 PFHxA	79		50-150
STL02116	13C2 PFTeDA	45	*5-	50-150
STL00997	13C2 PFUnA	97		50-150
STL00992	13C4 PFBA	39	*5-	50-150
STL01892	13C4 PFHpA	76		50-150
STL00990	13C4 PFOA	81		50-150
STL00995	13C5 PFNA	78		50-150
STL01893	13C5 PFPeA	63		50-150
STL01056	13C8 FOSA	61		50-150
STL00994	18O2 PFHxS	68		50-150
STL02118	d3-NMeFOSAA	97		50-150
STL02117	d5-NEtFOSAA	157	*5+	50-150
STL00991	13C4 PFOS	71		50-150
STL02337	13C3 PFBS	65		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

12

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-103 Lab Sample ID: 480-221606-12

Matrix: Solid Lab File ID: PB240718A20.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 12:55

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.59(g) Date Analyzed: 07/18/2024 16:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 41.9 % Solids: 58.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		29	1.1
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		29	1.1
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.9	0.41
375-22-4	Perfluorobutanoic acid (PFBA)	ND		7.3	2.6
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.9	0.42
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.9	0.42
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		2.9	0.35
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.9	0.44
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		2.9	0.50
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.9	0.50
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.9	0.39
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		2.9	0.47
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.9	1.4
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.9	0.54
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.9	0.36
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		2.9	0.47
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.9	0.42
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.9	0.79
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		29	0.90
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		29	0.58
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.9	0.32

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-104 Lab Sample ID: 480-221606-13

Matrix: Solid Lab File ID: PB240718A21.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 13:00

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.57(g) Date Analyzed: 07/18/2024 16:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 32.3 % Solids: 67.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		26	0.97
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		26	0.97
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.6	0.36
375-22-4	Perfluorobutanoic acid (PFBA)	ND		6.5	2.3
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.6	0.38
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.6	0.38
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		2.6	0.31
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.6	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.4	J	2.6	0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.6	0.44
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.6	0.35
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		2.6	0.41
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	10		2.6	1.2
335-67-1	Perfluorooctanoic acid (PFOA)	0.50	J	2.6	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.6	0.32
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		2.6	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.6	0.38
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.6	0.70
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.1	J	26	0.80
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.87	J	26	0.52
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.6	0.29

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-105 Lab Sample ID: 480-221606-14

Matrix: Solid Lab File ID: PB240718A22.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 13:05

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.51(g) Date Analyzed: 07/18/2024 16:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 36.0 % Solids: 64.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		31	1.1
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		31	1.1
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		3.1	0.43
375-22-4	Perfluorobutanoic acid (PFBA)	ND		7.7	2.8
335-76-2	Perfluorodecanoic acid (PFDA)	ND		3.1	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		3.1	0.44
375 92 8	Perfluoroheptanesulfonic acid (PFHpS)	ND		3.1	0.37
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		3.1	0.46
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		3.1	0.52
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		3.1	0.52
375-95-1	Perfluorononanoic acid (PFNA)	ND		3.1	0.41
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		3.1	0.49
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.9	J	3.1	1.4
335-67-1	Perfluorooctanoic acid (PFOA)	ND		3.1	0.57
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		3.1	0.38
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		3.1	0.49
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		3.1	0.44
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.1	0.83
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		31	0.95
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		31	0.61
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		3.1	0.34

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-106 Lab Sample ID: 480-221606-15

Matrix: Solid Lab File ID: PB240718A23.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 13:15

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.51(g) Date Analyzed: 07/18/2024 17:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 64.7 % Solids: 35.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		55	2.1
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		55	2.1
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		5.5	0.78
375-22-4	Perfluorobutanoic acid (PFBA)	ND		14	5.0
335-76-2	Perfluorodecanoic acid (PFDA)	ND		5.5	0.80
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		5.5	0.80
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		5.5	0.67
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		5.5	0.83
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		5.5	0.94
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		5.5	0.94
375-95-1	Perfluorononanoic acid (PFNA)	ND		5.5	0.75
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		5.5	0.89
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		5.5	2.6
335-67-1	Perfluorooctanoic acid (PFOA)	ND		5.5	1.0
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		5.5	0.69
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		5.5	0.89
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		5.5	0.80
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		5.5	1.5
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.7	J	55	1.7
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		55	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		5.5	0.61

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington Job No.: 480-221606-1

SDG No.:

Client Sample ID: DCFTC-TP-107 Lab Sample ID: 480-221606-16

Matrix: Solid Lab File ID: PB240718A24.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/02/2024 13:25

Extraction Method: SHAKE Date Extracted: 07/16/2024 07:22

Sample wt/vol: 0.55(g) Date Analyzed: 07/18/2024 17:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 60.0 % Solids: 40.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206545 Units: ug/Kg

Preparation Batch No.: 206397 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		45	1.7
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		45	1.7
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		4.5	0.64
375-22-4	Perfluorobutanoic acid (PFBA)	ND		11	4.1
335-76-2	Perfluorodecanoic acid (PFDA)	1.6	J	4.5	0.66
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		4.5	0.66
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		4.5	0.55
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		4.5	0.68
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.6	J	4.5	0.77
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		4.5	0.77
375-95-1	Perfluorononanoic acid (PFNA)	1.4	J	4.5	0.61
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		4.5	0.73
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	130		4.5	2.1
335-67-1	Perfluorooctanoic acid (PFOA)	ND		4.5	0.84
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		4.5	0.57
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		4.5	0.73
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.2	J	4.5	0.66
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		4.5	1.2
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.6	J	45	1.4
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.9	J	45	0.91
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		4.5	0.50

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-222066-1/2
Laboratory: Eurofins, Buffalo, New York, Cleveland Ohio, Burlington, Vermont
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: November 8, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-BMW-101 (0-0.5)	480-222066-1	Soil
2	DCFTC-BMW-101 (0.5-1.5)	480-222066-2	Soil
3	DCFTC-BMW-101 (1.5-3)	480-222066-3	Soil
4	DCFTC-BMW-102 (0-0.5)	480-222066-4	Soil
4MS	DCFTC-BMW-102 (0-0.5)MS	480-222066-4MS	Soil
4MSD	DCFTC-BMW-102 (0-0.5)MSD	480-222066-4MSD	Soil
5	DCFTC-BMW-102 (0.5-1.5)	480-222066-5	Soil
6	DCFTC-BMW-102 (3-5)	480-222066-6	Soil
7	DCFTC-BMW-102 (18-20)	480-222066-7	Soil
8	DCFTC-BMW-103 (0-0.5)	480-222066-8	Soil
9	DCFTC-BMW-103 (0.5-1.5)	480-222066-9	Soil
10	DCFTC-BMW-103 (7-9)	480-222066-10	Soil
11	DCFTC-DUP-07	480-222066-11	Soil
12	DCFTC-EB-03	480-222066-12	Water

A Data Usability Summary Review was performed on the analytical data for eleven soil samples and one aqueous equipment blank sample collected on July 25, 2024 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Environmental Samples by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) and the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	USEPA Method 1633
PFAS	USEPA Method 537.1M

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the New York State Department of Environmental Conservation (NYSDEC) Data Review Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All samples were extracted within 14 days for water samples and 28 days for soil samples and analyzed within 28 days for all samples.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The field QC samples exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
DCFTC-EB-03	None - ND	-	-	-

Surrogate Spike Recoveries

- Several samples exhibited high surrogate percent recoveries. Detected associated compounds were qualified estimated (J). All non-detected associated compounds were not qualified. See Form Is summary for specific recovery details.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples (LCS)

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples exhibited compounds with an ion ratio outside of QC limits and were flagged (I) by the laboratory. These results were qualified as estimated (J).

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	DCFTC-BMW-102 (0-0.5) ug/kg	DCFTC-DUP-07 ug/kg	RPD	Qualifier
PFOA	0.068	0.16	81%	None - <5X RL
PFNA	0.081	0.10	21%	None
PFDA	0.10	0.11	10%	
PFUnA	0.21	0.27	25%	
PFDoA	0.059	0.065	10%	
PFTrDA	0.13	0.14	7%	
PFOS	0.75	0.74	1%	
PFDoS	0.082	0.19U	NC	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/13/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-101 (0-0.5) | Lab Sample ID: 480-222066-1

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj09.d

Analysis Method: 1633 | Date Collected: 07/25/2024 08:50

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.54(g) | Date Analyzed: 08/31/2024 02:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.0 % Solids: 86.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.38	J	0.76	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.0		0.38	0.094
307-24-4	Perfluorohexanoic acid (PFHxA)	0.68		0.19	0.047
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.48		0.19	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.62		0.19	0.047
375-95-1	Perfluorononanoic acid (PFNA)	0.62		0.19	0.047
335-76-2	Perfluorodecanoic acid (PFDA)	3.1		0.19	0.047
2058-94-8	Perfluoroundecanoic acid (PFUnA)	9.5		0.19	0.047
307-55-1	Perfluorododecanoic acid (PFDoA)	2.9		0.19	0.047
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.8		0.19	0.047
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.44		0.19	0.047
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.047
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.21		0.19	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.38		0.19	0.047
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.047
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.48	~~J~~ J	0.19	0.047
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.76	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.24	~~J~~ J	0.76	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.20	J	0.76	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.047
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.047
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.047
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.047

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-101 (0-0.5) | Lab Sample ID: 480-222066-1

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj09.d

Analysis Method: 1633 | Date Collected: 07/25/2024 08:50

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.54(g) | Date Analyzed: 08/31/2024 02:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.0 % Solids: 86.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.047
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.47
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.47
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.76	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.76	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.38	0.094
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.38	0.094
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.76	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.76	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.38	0.094
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.94	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.7	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.7	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.047
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.38	0.094

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-101 (0-0.5) | Lab Sample ID: 480-222066-1

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj09.d

Analysis Method: 1633 | Date Collected: 07/25/2024 08:50

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.54(g) | Date Analyzed: 08/31/2024 02:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.0 % Solids: 86.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	93.5		20-150
STL01893	13C5 PFPeA	82.5		20-150
STL02577	13C5 PFHxA	78.6		20-150
STL01892	13C4 PFHpA	78.4		20-150
STL01052	13C8 PFOA	86.7		20-150
STL02578	13C9 PFNA	108		20-150
STL02579	13C6 PFDA	104		20-150
STL02580	13C7 PFUnA	101		20-150
STL02116	13C2 PFTeDA	90.3		20-150
STL02337	13C3 PFBS	112		20-150
STL02581	13C3 PFHxS	136		20-150
STL01054	13C8 PFOS	102		20-150
STL01056	13C8 FOSA	116		20-150
STL02118	d3-NMeFOSAA	107		20-150
STL02117	d5-NEtFOSAA	123		20-150
STL02395	M2-4:2 FTS	154	*5+	20-150
STL02279	M2-6:2 FTS	155	*5+	20-150
STL02280	M2-8:2 FTS	141		20-150
STL02255	13C3 HFPO-DA	89.4		20-150
STL02277	d7-N-MeFOSE-M	102		20-150
STL02278	d9-N-EtFOSE-M	102		20-150
STL02704	d5-NEtPFOSA	80.5		20-150
STL02705	d3-NMePFOSA	105		20-150
STL02703	13C2-PFDoDA	99.0		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-101 (0.5-1.5) | Lab Sample ID: 480-222066-2

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj10.d

Analysis Method: 1633 | Date Collected: 07/25/2024 08:55

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.47(g) | Date Analyzed: 08/31/2024 02:47

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 9.8 % Solids: 90.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.75	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.40		0.38	0.094
307-24-4	Perfluorohexanoic acid (PFHxA)	0.25		0.19	0.047
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.21		0.19	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.35		0.19	0.047
375-95-1	Perfluorononanoic acid (PFNA)	0.30	J	0.19	0.047
335-76-2	Perfluorodecanoic acid (PFDA)	1.6		0.19	0.047
2058-94-8	Perfluoroundecanoic acid (PFUnA)	6.2		0.19	0.047
307-55-1	Perfluorododecanoic acid (PFDoA)	1.2		0.19	0.047
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1.6		0.19	0.047
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.19		0.19	0.047
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.047
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.27		0.19	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.38		0.19	0.047
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.047
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.047
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.75	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.75	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.75	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.047
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.047
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.047
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.047

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-101 (0.5-1.5) | Lab Sample ID: 480-222066-2

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj10.d

Analysis Method: 1633 | Date Collected: 07/25/2024 08:55

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.47(g) | Date Analyzed: 08/31/2024 02:47

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 9.8 % Solids: 90.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.047
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.47
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.47
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.75	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.75	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.38	0.094
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.38	0.094
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.75	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.75	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.38	0.094
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.94	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.7	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.7	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.047
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.38	0.094

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-101 (0.5-1.5) Lab Sample ID: 480-222066-2

Matrix: Solid Lab File ID: 2024_08_30LD solid2inj10.d

Analysis Method: 1633 Date Collected: 07/25/2024 08:55

Extraction Method: 1633 Shake Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.47(g) Date Analyzed: 08/31/2024 02:47

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 9.8 % Solids: 90.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 Units: ug/Kg

Preparation Batch No.: 625325 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	94.5		20-150
STL01893	13C5 PFPeA	86.4		20-150
STL02577	13C5 PFHxA	80.2		20-150
STL01892	13C4 PFHpA	84.0		20-150
STL01052	13C8 PFOA	92.4		20-150
STL02578	13C9 PFNA	111		20-150
STL02579	13C6 PFDA	108		20-150
STL02580	13C7 PFUnA	102		20-150
STL02116	13C2 PFTeDA	77.8		20-150
STL02337	13C3 PFBS	111		20-150
STL02581	13C3 PFHxS	132		20-150
STL01054	13C8 PFOS	102		20-150
STL01056	13C8 FOSA	111		20-150
STL02118	d3-NMeFOSAA	107		20-150
STL02117	d5-NEtFOSAA	121		20-150
STL02395	M2-4:2 FTS	141		20-150
STL02279	M2-6:2 FTS	156	*5+	20-150
STL02280	M2-8:2 FTS	157	*5+	20-150
STL02255	13C3 HFPO-DA	92.1		20-150
STL02277	d7-N-MeFOSE-M	99.7		20-150
STL02278	d9-N-EtFOSE-M	100		20-150
STL02704	d5-NEtPFOSA	77.5		20-150
STL02705	d3-NMePFOSA	96.3		20-150
STL02703	13C2-PFDoDA	93.8		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-101 (1.5-3) Lab Sample ID: 480-222066-3

Matrix: Solid Lab File ID: 2024_08_30LD solid2inj11.d

Analysis Method: 1633 Date Collected: 07/25/2024 09:15

Extraction Method: 1633 Shake Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.48(g) Date Analyzed: 08/31/2024 03:00

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 13.1 % Solids: 86.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 Units: ug/Kg

Preparation Batch No.: 625325 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.78	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.46		0.39	0.097
307-24-4	Perfluorohexanoic acid (PFHxA)	0.27		0.19	0.049
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20		0.19	0.049
335-67-1	Perfluorooctanoic acid (PFOA)	0.31		0.19	0.049
375-95-1	Perfluorononanoic acid (PFNA)	0.27	J	0.19	0.049
335-76-2	Perfluorodecanoic acid (PFDA)	1.6		0.19	0.049
2058-94-8	Perfluoroundecanoic acid (PFUnA)	5.5		0.19	0.049
307-55-1	Perfluorododecanoic acid (PFDoA)	0.60		0.19	0.049
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.91		0.19	0.049
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.096	J	0.19	0.049
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.049
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.049
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.16	J	0.19	0.049
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.049
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.69		0.19	0.049
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.049
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.049
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.78	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.24	J	0.78	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.32	J	0.78	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.049
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.049
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.049
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.049

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PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-101 (1.5-3) | Lab Sample ID: 480-222066-3

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj11.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:15

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.48(g) | Date Analyzed: 08/31/2024 03:00

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.1 % Solids: 86.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.049
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.49
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.49
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.78	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.78	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.39	0.097
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.39	0.097
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.78	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.78	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.39	0.097
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.97	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.9	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.9	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.049
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.39	0.097

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (0-0.5) | Lab Sample ID: 480-222066-4

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj12.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:30

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.52(g) | Date Analyzed: 08/31/2024 03:14

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.3 % Solids: 85.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.77	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.38	0.096
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.19	0.048
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.048
335-67-1	Perfluorooctanoic acid (PFOA)	0.068	J	0.19	0.048
375-95-1	Perfluorononanoic acid (PFNA)	0.081	J	0.19	0.048
335-76-2	Perfluorodecanoic acid (PFDA)	0.10	J	0.19	0.048
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.21		0.19	0.048
307-55-1	Perfluorododecanoic acid (PFDoA)	0.059	J	0.19	0.048
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.13	J	0.19	0.048
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.048
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.048
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.048
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.75		0.19	0.048
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.048
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.082	J	0.19	0.048
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.77	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.77	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.77	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.048
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.048
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.048
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.048

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (0-0.5) | Lab Sample ID: 480-222066-4

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj12.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:30

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.52(g) | Date Analyzed: 08/31/2024 03:14

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 14.3 % Solids: 85.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.048
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.77	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.77	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.38	0.096
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.38	0.096
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.77	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.77	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.38	0.096
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.96	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.8	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.8	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.38	0.096

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (0.5-1.5) | Lab Sample ID: 480-222066-5

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj15.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:32

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.48(g) | Date Analyzed: 08/31/2024 03:55

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.7 % Solids: 86.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.78	0.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.39	0.098
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.20	0.049
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.049
335-67-1	Perfluorooctanoic acid (PFOA)	0.093	J	0.20	0.049
375-95-1	Perfluorononanoic acid (PFNA)	0.13	J	0.20	0.049
335-76-2	Perfluorodecanoic acid (PFDA)	0.080	J	0.20	0.049
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.36		0.20	0.049
307-55-1	Perfluorododecanoic acid (PFDoA)	0.066	J	0.20	0.049
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.28		0.20	0.049
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.049
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.049
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.049
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.094	J	0.20	0.049
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.049
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.8		0.20	0.049
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.049
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.049
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.78	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.78	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.78	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.049
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.049
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.049
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.049

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (0.5-1.5) | Lab Sample ID: 480-222066-5

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj15.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:32

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.48(g) | Date Analyzed: 08/31/2024 03:55

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.7 % Solids: 86.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.049
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.0	0.49
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.0	0.49
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.78	0.20
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.78	0.20
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.39	0.098
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.39	0.098
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.78	0.20
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.78	0.20
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.39	0.098
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.98	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.9	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.9	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.049
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.39	0.098

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (0.5-1.5) | Lab Sample ID: 480-222066-5

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj15.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:32

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.48(g) | Date Analyzed: 08/31/2024 03:55

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.7 % Solids: 86.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	95.3		20-150
STL01893	13C5 PFPeA	83.5		20-150
STL02577	13C5 PFHxA	81.6		20-150
STL01892	13C4 PFHpA	83.0		20-150
STL01052	13C8 PFOA	87.3		20-150
STL02578	13C9 PFNA	112		20-150
STL02579	13C6 PFDA	108		20-150
STL02580	13C7 PFUnA	114		20-150
STL02116	13C2 PFTeDA	91.3		20-150
STL02337	13C3 PFBS	117		20-150
STL02581	13C3 PFHxS	138		20-150
STL01054	13C8 PFOS	105		20-150
STL01056	13C8 FOSA	112		20-150
STL02118	d3-NMeFOSAA	103		20-150
STL02117	d5-NEtFOSAA	127		20-150
STL02395	M2-4:2 FTS	166	*J+	20-150
STL02279	M2-6:2 FTS	160	*J+	20-150
STL02280	M2-8:2 FTS	147		20-150
STL02255	13C3 HFPO-DA	89.1		20-150
STL02277	d7-N-MeFOSE-M	114		20-150
STL02278	d9-N-EtFOSE-M	105		20-150
STL02704	d5-NEtPFOSA	81.8		20-150
STL02705	d3-NMePFOSA	106		20-150
STL02703	13C2-PFDoDA	104		20-150

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (3-5) Lab Sample ID: 480-222066-6

Matrix: Solid Lab File ID: 2024_08_30LD solid2inj18.d

Analysis Method: 1633 Date Collected: 07/25/2024 09:38

Extraction Method: 1633 Shake Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) Date Analyzed: 08/31/2024 04:35

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 11.5 % Solids: 88.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 Units: ug/Kg

Preparation Batch No.: 625325 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.75	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.38	0.094
307-24-4	Perfluorohexanoic acid (PFHxA)	0.066	~~J~~ J	0.19	0.047
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.068	~~J~~ J	0.19	0.047
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.19	0.047
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.19	0.047
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.047
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.19	0.047
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.047
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.047
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.047
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.19		0.19	0.047
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.047
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.047
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.75	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.75	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.75	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.047
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.047
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.047
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.047

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (3-5) Lab Sample ID: 480-222066-6

Matrix: Solid Lab File ID: 2024_08_30LD solid2inj18.d

Analysis Method: 1633 Date Collected: 07/25/2024 09:38

Extraction Method: 1633 Shake Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) Date Analyzed: 08/31/2024 04:35

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 11.5 % Solids: 88.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 Units: ug/Kg

Preparation Batch No.: 625325 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.047
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.47
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.47
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.75	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.75	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.38	0.094
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.38	0.094
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.75	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.75	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.38	0.094
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.94	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.7	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.7	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.047
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.38	0.094

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (3-5) Lab Sample ID: 480-222066-6

Matrix: Solid Lab File ID: 2024_08_30LD solid2inj18.d

Analysis Method: 1633 Date Collected: 07/25/2024 09:38

Extraction Method: 1633 Shake Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) Date Analyzed: 08/31/2024 04:35

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 11.5 % Solids: 88.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 Units: ug/Kg

Preparation Batch No.: 625325 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	93.4		20-150
STL01893	13C5 PFPeA	85.8		20-150
STL02577	13C5 PFHxA	82.9		20-150
STL01892	13C4 PFHpA	86.8		20-150
STL01052	13C8 PFOA	92.6		20-150
STL02578	13C9 PFNA	103		20-150
STL02579	13C6 PFDA	99.8		20-150
STL02580	13C7 PFUnA	103		20-150
STL02116	13C2 PFTeDA	90.0		20-150
STL02337	13C3 PFBS	112		20-150
STL02581	13C3 PFHxS	132		20-150
STL01054	13C8 PFOS	103		20-150
STL01056	13C8 FOSA	117		20-150
STL02118	d3-NMeFOSAA	111		20-150
STL02117	d5-NEtFOSAA	131		20-150
STL02395	M2-4:2 FTS	148		20-150
STL02279	M2-6:2 FTS	154	*5+	20-150
STL02280	M2-8:2 FTS	130		20-150
STL02255	13C3 HFPO-DA	96.7		20-150
STL02277	d7-N-MeFOSE-M	111		20-150
STL02278	d9-N-EtFOSE-M	110		20-150
STL02704	d5-NEtPFOSA	84.5		20-150
STL02705	d3-NMePFOSA	104		20-150
STL02703	13C2-PFDoDA	95.7		20-150

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (18-20) | Lab Sample ID: 480-222066-7

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj19.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:55

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) | Date Analyzed: 08/31/2024 04:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 8.0 % Solids: 92.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.72	0.18
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.36	0.091
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.18	0.045
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.18	0.045
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.18	0.045
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.18	0.045
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.18	0.045
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.18	0.045
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.18	0.045
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.18	0.045
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.18	0.045
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.18	0.045
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.18	0.045
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.18	0.045
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.18	0.045
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.18	0.045
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.18	0.045
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.18	0.045
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.72	0.18
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.72	0.18
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.72	0.18
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.18	0.045
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.18	0.045
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.18	0.045
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.18	0.045

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (18-20) | Lab Sample ID: 480-222066-7

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj19.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:55

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) | Date Analyzed: 08/31/2024 04:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 8.0 % Solids: 92.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.18	0.045
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.8	0.45
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.8	0.45
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.72	0.18
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.72	0.18
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.36	0.091
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.36	0.091
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.72	0.18
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.72	0.18
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.36	0.091
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.91	0.23
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.5	1.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.5	1.1
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.18	0.045
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.36	0.091

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PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-102 (18-20) | Lab Sample ID: 480-222066-7

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj19.d

Analysis Method: 1633 | Date Collected: 07/25/2024 09:55

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) | Date Analyzed: 08/31/2024 04:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 8.0 % Solids: 92.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	92.3		20-150
STL01893	13C5 PFPeA	86.5		20-150
STL02577	13C5 PFHxA	81.1		20-150
STL01892	13C4 PFHpA	82.6		20-150
STL01052	13C8 PFOA	92.0		20-150
STL02578	13C9 PFNA	109		20-150
STL02579	13C6 PFDA	111		20-150
STL02580	13C7 PFUnA	103		20-150
STL02116	13C2 PFTeDA	89.1		20-150
STL02337	13C3 PFBS	117		20-150
STL02581	13C3 PFHxS	138		20-150
STL01054	13C8 PFOS	107		20-150
STL01056	13C8 FOSA	95.2		20-150
STL02118	d3-NMeFOSAA	109		20-150
STL02117	d5-NEtFOSAA	117		20-150
STL02395	M2-4:2 FTS	153	~~*5~~	20-150
STL02279	M2-6:2 FTS	147		20-150
STL02280	M2-8:2 FTS	143		20-150
STL02255	13C3 HFPO-DA	92.0		20-150
STL02277	d7-N-MeFOSE-M	100		20-150
STL02278	d9-N-EtFOSE-M	101		20-150
STL02704	d5-NEtPFOSA	78.6		20-150
STL02705	d3-NMePFOSA	98.2		20-150
STL02703	13C2-PFDoDA	102		20-150

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (0-0.5) | Lab Sample ID: 480-222066-8

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj20.d

Analysis Method: 1633 | Date Collected: 07/25/2024 10:15

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.45(g) | Date Analyzed: 08/31/2024 05:03

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 17.6 % Solids: 82.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.84	0.21
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.42	0.10
307-24-4	Perfluorohexanoic acid (PFHxA)	0.13	J	0.21	0.052
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.066	J	0.21	0.052
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	J	0.21	0.052
375-95-1	Perfluorononanoic acid (PFNA)	0.15	J	0.21	0.052
335-76-2	Perfluorodecanoic acid (PFDA)	0.38		0.21	0.052
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.28		0.21	0.052
307-55-1	Perfluorododecanoic acid (PFDoA)	0.21		0.21	0.052
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.15	J	0.21	0.052
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.13	J	0.21	0.052
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.052
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.21	0.052
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.052
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.052
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.65		0.21	0.052
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.21	0.052
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.21	0.052
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.84	0.21
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.84	0.21
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.84	0.21
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.062	~~J~~ J	0.21	0.052
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.21	0.052
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.21	0.052
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.21	0.052

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (0-0.5) | Lab Sample ID: 480-222066-8

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj20.d

Analysis Method: 1633 | Date Collected: 07/25/2024 10:15

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.45(g) | Date Analyzed: 08/31/2024 05:03

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 17.6 % Solids: 82.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.21	0.052
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.1	0.52
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.1	0.52
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.84	0.21
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.84	0.21
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.42	0.10
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.42	0.10
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.84	0.21
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.84	0.21
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.42	0.10
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		1.0	0.26
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.2	1.3
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.2	1.3
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.36		0.21	0.052
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.42	0.10

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (0-0.5) | Lab Sample ID: 480-222066-8

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj20.d

Analysis Method: 1633 | Date Collected: 07/25/2024 10:15

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.45(g) | Date Analyzed: 08/31/2024 05:03

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 17.6 % Solids: 82.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	95.7		20-150
STL01893	13C5 PFPeA	86.1		20-150
STL02577	13C5 PFHxA	81.8		20-150
STL01892	13C4 PFHpA	85.3		20-150
STL01052	13C8 PFOA	87.4		20-150
STL02578	13C9 PFNA	107		20-150
STL02579	13C6 PFDA	107		20-150
STL02580	13C7 PFUnA	116		20-150
STL02116	13C2 PFTeDA	84.6		20-150
STL02337	13C3 PFBS	117		20-150
STL02581	13C3 PFHxS	133		20-150
STL01054	13C8 PFOS	109		20-150
STL01056	13C8 FOSA	113		20-150
STL02118	d3-NMeFOSAA	100		20-150
STL02117	d5-NEtFOSAA	124		20-150
STL02395	M2-4:2 FTS	148		20-150
STL02279	M2-6:2 FTS	152	+5+	20-150
STL02280	M2-8:2 FTS	142		20-150
STL02255	13C3 HFPO-DA	89.9		20-150
STL02277	d7-N-MeFOSE-M	96.1		20-150
STL02278	d9-N-EtFOSE-M	98.1		20-150
STL02704	d5-NEtPFOSA	83.3		20-150
STL02705	d3-NMePFOSA	103		20-150
STL02703	13C2-PFDoDA	106		20-150

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (0.5-1.5) | Lab Sample ID: 480-222066-9

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj21.d

Analysis Method: 1633 | Date Collected: 07/25/2024 10:17

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.48(g) | Date Analyzed: 08/31/2024 05:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.4 % Solids: 86.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.78	0.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.39	0.098
307-24-4	Perfluorohexanoic acid (PFHxA)	0.074	J	0.20	0.049
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.049
335-67-1	Perfluorooctanoic acid (PFOA)	0.084	J	0.20	0.049
375-95-1	Perfluorononanoic acid (PFNA)	0.095	~~J~~ J	0.20	0.049
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	J	0.20	0.049
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.089	J	0.20	0.049
307-55-1	Perfluorododecanoic acid (PFDoA)	0.068	J	0.20	0.049
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.049
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.049
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.049
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.049
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.049
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.049
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.35		0.20	0.049
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.049
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.049
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.78	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.78	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.78	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.049
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.049
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.049
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.049

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (0.5-1.5) | Lab Sample ID: 480-222066-9

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj21.d

Analysis Method: 1633 | Date Collected: 07/25/2024 10:17

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.48(g) | Date Analyzed: 08/31/2024 05:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.4 % Solids: 86.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.049
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.0	0.49
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.0	0.49
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.78	0.20
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.78	0.20
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.39	0.098
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.39	0.098
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.78	0.20
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.78	0.20
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.39	0.098
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.98	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.9	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.9	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.093	J	0.20	0.049
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.39	0.098

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (0.5-1.5) | Lab Sample ID: 480-222066-9

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj21.d

Analysis Method: 1633 | Date Collected: 07/25/2024 10:17

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.48(g) | Date Analyzed: 08/31/2024 05:16

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.4 % Solids: 86.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	93.7		20-150
STL01893	13C5 PFPeA	85.5		20-150
STL02577	13C5 PFHxA	84.1		20-150
STL01892	13C4 PFHpA	85.3		20-150
STL01052	13C8 PFOA	89.0		20-150
STL02578	13C9 PFNA	110		20-150
STL02579	13C6 PFDA	109		20-150
STL02580	13C7 PFUnA	101		20-150
STL02116	13C2 PFTeDA	86.6		20-150
STL02337	13C3 PFBS	110		20-150
STL02581	13C3 PFHxS	131		20-150
STL01054	13C8 PFOS	100		20-150
STL01056	13C8 FOSA	113		20-150
STL02118	d3-NMeFOSAA	99.2		20-150
STL02117	d5-NEtFOSAA	121		20-150
STL02395	M2-4:2 FTS	152	+5+	20-150
STL02279	M2-6:2 FTS	145		20-150
STL02280	M2-8:2 FTS	147		20-150
STL02255	13C3 HFPO-DA	91.5		20-150
STL02277	d7-N-MeFOSE-M	99.1		20-150
STL02278	d9-N-EtFOSE-M	98.8		20-150
STL02704	d5-NEtPFOSA	78.7		20-150
STL02705	d3-NMePFOSA	104		20-150
STL02703	13C2-PFDoDA	102		20-150

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (7-9) | Lab Sample ID: 480-222066-10

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj22.d

Analysis Method: 1633 | Date Collected: 07/25/2024 10:25

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) | Date Analyzed: 08/31/2024 05:30

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.4 % Solids: 88.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.75	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.38	0.094
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.19	0.047
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.051	J	0.19	0.047
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.19	0.047
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.19	0.047
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.047
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.19	0.047
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.047
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.047
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.047
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.062	J	0.19	0.047
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.047
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.047
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.75	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.75	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.75	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.047
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.047
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.047
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.047

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Lab Name: Eurofins Cleveland Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (7-9) Lab Sample ID: 480-222066-10

Matrix: Solid Lab File ID: 2024_08_30LD solid2inj22.d

Analysis Method: 1633 Date Collected: 07/25/2024 10:25

Extraction Method: 1633 Shake Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) Date Analyzed: 08/31/2024 05:30

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 11.4 % Solids: 88.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 Units: ug/Kg

Preparation Batch No.: 625325 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.047
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.47
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.47
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.75	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.75	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.38	0.094
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.38	0.094
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.75	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.75	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.38	0.094
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.94	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.7	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.7	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.047
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.38	0.094

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Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-BMW-103 (7-9) | Lab Sample ID: 480-222066-10

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj22.d

Analysis Method: 1633 | Date Collected: 07/25/2024 10:25

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.50(g) | Date Analyzed: 08/31/2024 05:30

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.4 % Solids: 88.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	94.0		20-150
STL01893	13C5 PFPeA	85.7		20-150
STL02577	13C5 PFHxA	81.1		20-150
STL01892	13C4 PFHpA	84.2		20-150
STL01052	13C8 PFOA	86.9		20-150
STL02578	13C9 PFNA	107		20-150
STL02579	13C6 PFDA	117		20-150
STL02580	13C7 PFUnA	113		20-150
STL02116	13C2 PFTeDA	86.5		20-150
STL02337	13C3 PFBS	111		20-150
STL02581	13C3 PFHxS	135		20-150
STL01054	13C8 PFOS	107		20-150
STL01056	13C8 FOSA	108		20-150
STL02118	d3-NMeFOSAA	104		20-150
STL02117	d5-NEtFOSAA	120		20-150
STL02395	M2-4:2 FTS	152	~~*5+~~	20-150
STL02279	M2-6:2 FTS	152	~~*5+~~	20-150
STL02280	M2-8:2 FTS	140		20-150
STL02255	13C3 HFPO-DA	90.3		20-150
STL02277	d7-N-MeFOSE-M	108		20-150
STL02278	d9-N-EtFOSE-M	101		20-150
STL02704	d5-NEtPFOSA	77.5		20-150
STL02705	d3-NMePFOSA	101		20-150
STL02703	13C2-PFDoDA	99.6		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-DUP-07 | Lab Sample ID: 480-222066-11

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj23.d

Analysis Method: 1633 | Date Collected: 07/25/2024 12:00

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.53(g) | Date Analyzed: 08/31/2024 05:43

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.6 % Solids: 86.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.76	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.38	0.095
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.19	0.047
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.047
335-67-1	Perfluorooctanoic acid (PFOA)	0.16	~~J~~ ~~I~~ J	0.19	0.047
375-95-1	Perfluorononanoic acid (PFNA)	0.10	J	0.19	0.047
335-76-2	Perfluorodecanoic acid (PFDA)	0.11	J	0.19	0.047
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.27		0.19	0.047
307-55-1	Perfluorododecanoic acid (PFDoA)	0.065	J	0.19	0.047
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.14	J	0.19	0.047
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.047
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.047
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.74		0.19	0.047
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.047
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.047
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.76	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.76	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.76	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.047
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.047
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.047
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.047

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Cleveland | Job No.: 480-222066-2

SDG No.:

Client Sample ID: DCFTC-DUP-07 | Lab Sample ID: 480-222066-11

Matrix: Solid | Lab File ID: 2024_08_30LD solid2inj23.d

Analysis Method: 1633 | Date Collected: 07/25/2024 12:00

Extraction Method: 1633 Shake | Date Extracted: 08/29/2024 15:55

Sample wt/vol: 1.53(g) | Date Analyzed: 08/31/2024 05:43

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 13.6 % Solids: 86.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 625474 | Units: ug/Kg

Preparation Batch No.: 625325 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.047
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.47
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.47
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.76	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.76	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.38	0.095
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.38	0.095
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.76	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.76	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.38	0.095
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.95	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.7	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.7	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.047
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.38	0.095

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

12

Lab Name: Eurofins Burlington Job No.: 480-222066-1

SDG No.:

Client Sample ID: DCFTC-EB-03 Lab Sample ID: 480-222066-12

Matrix: Water Lab File ID: PB240801C23.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/25/2024 10:45

Extraction Method: 3535 Date Extracted: 07/31/2024 13:51

Sample wt/vol: 313(mL) Date Analyzed: 08/02/2024 06:29

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207090 Units: ng/L

Preparation Batch No.: 207030 Instrument ID: LC305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.0	1.3
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.0	1.4
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.41
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.0	0.96
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.30
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.34
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.14
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.30
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.31
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.58
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.18
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.33
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.40
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.6	0.33
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.24
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.22
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.6	0.39
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.4
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.6	1.0
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.27

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-222067-1
Laboratory: Eurofins, Buffalo, New York, Burlington, Vermont
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: November 8, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-SB-301 (0-0.5)	480-222067-1	Soil
2	DCFTC-SB-301 (0.5-1.5)	480-222067-2	Soil
3	DCFTC-SB-301 (1.5-4)	480-222067-3	Soil
4	DCFTC-SB-301 (4-6)	480-222067-4	Soil
5	DCFTC-SB-302 (0-0.5)	480-222067-5	Soil
6	DCFTC-SB-302 (0.5-1.5)	480-222067-6	Soil
7	DCFTC-SB-302 (1.5-4)	480-222067-7	Soil
7MS	DCFTC-SB-302 (1.5-4)MS	480-222067-7MS	Soil
7MSD	DCFTC-SB-302 (1.5-4)MSD	480-222067-7MSD	Soil
8	DCFTC-SB-302 (4-6)	480-222067-8	Soil
9	DCFTC-SB-303 (0-0.5)	480 222067 9	Soil
10	DCFTC-SB-303 (0.5-1.5)	480-222067-10	Soil
11	DCFTC-SB-303 (1.5-4)	480-222067-11	Soil
12	DCFTC-SB-303 (4-6)	480-222067-12	Soil
13	DCFTC-DUP-1	480-222067-13	Soil
14	DCFTC-SB-304 (0-0.5)	480-222067-14	Soil
15	DCFTC-SB-304 (0.5-1.5)	480-222067-15	Soil
16	DCFTC-SB-304 (1.5-4)	480-222067-16	Soil
17	DCFTC-SB-304 (4-6)	480-222067-17	Soil
18	DCFTC-SB-305 (0-0.5)	480-222067-18	Soil
19	DCFTC-SB-305 (0.5-1.5)	480-222067-19	Soil
20	DCFTC-SB-305 (1.5-4)	480-222067-20	Soil
21	DCFTC-SB-305 (4-5)	480-222067-21	Soil
22	DCFTC-SB-306 (0-0.5)	480-222067-22	Soil
23	DCFTC-SB-306 (0.5-1.5)	480-222067-23	Soil
24	DCFTC-SB-306 (1.5-4)	480-222067-24	Soil
25	DCFTC-SB-307 (0-0.5)	480-222067 25	Soil
26	DCFTC-SB-307 (0.5-1.5)	480-222067-26	Soil
27	DCFTC-SB-307 (1.5 4)	480 222067 27	Soil
28	DCFTC-SB-308 (0-0.5)	480-222067-28	Soil
29	DCFTC SB 308 (0.5-1.5)	480-222067-29	Soil
30	DCFTC-SB-308 (1.5-4)	480-222067-30	Soil
31	DCFTC-SB-309 (0-0.5)	480-222067-31	Soil
32	DCFTC-SB-309 (0.5-1.5)	480-222067 32	Soil
33	DCFTC SB 309 (1.5 4)	480 222067 33	Soil
34	DCFTC-SB-309 (4-5)	480-222067-34	Soil
35	DCFTC-SB-310 (0-0.5)	480-222067-35	Soil
36	DCFTC-SB-310 (0.5-1.5)	480-222067-36	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
37	DCFTC-SB-310 (1.5-4)	480-222067-37	Soil
38	DCFTC-SB-310 (4-6)	480-222067-38	Soil
39	DCFTC-SB-311 (0-0.5)	480-222067-39	Soil
40	DCFTC-SB-311 (0.5-1.5)	480-222067-40	Soil
41	DCFTC-SB-311 (1.5-4)	480-222067-41	Soil
42	DCFTC-SB-311 (4-5)	480-222067-42	Soil
43	DCFTC-SB-312 (0-0.5)	480-222067-43	Soil
44	DCFTC-SB-312 (0.5-1.5)	480-222067-44	Soil
45	DCFTC-SB-312 (1.5-4)	480-222067-45	Soil
46	DCFTC-SB-312 (4-6)	480-222067-46	Soil
47	DCFTC-SB-313 (0-0.5)	480-222067-47	Soil
48	DCFTC-SB-313 (0.5-1.5)	480-222067-48	Soil
49	DCFTC-SB-313 (0.5-4)	480-222067-49	Soil
50	DCFTC-SB-313 (4-6)	480-222067-50	Soil
51	DCFTC-SB-314 (0-0.5)	480-222067-51	Soil
52	DCFTC-SB-314 (0.5-1.5)	480-222067-52	Soil
53	DCFTC-SB-314 (1.5-4)	480-222067-53	Soil
54	DCFTC-SB-315 (0-0.5)	480-222067-54	Soil
55	DCFTC-SB-315 (0.5-1.5)	480-222067-55	Soil
56	DCFTC-SB-315 (1-5-4)	480-222067-56	Soil
56MS	DCFTC-SB-315 (1-5-4)MS	480-222067-56MS	Soil
56MSD	DCFTC-SB-315 (1-5-4)MSD	480-222067-56MSD	Soil
57	DCFTC-DUP-2	480-222067-57	Soil
58	DCFTC-SB-316 (0-0.5)	480-222067-58	Soil
59	DCFTC-SB-316 (0.5-1.5)	480-222067-59	Soil
60	DCFTC-SB-316 (1.5-4)	480-222067-60	Soil
61	DCFTC-SB-317 (0-0.5)	480-222067-61	Soil
62	DCFTC-SB-317 (0.5-1.5)	480-222067-62	Soil
63	DCFTC-SB-317 (1.5-4)	480-222067-63	Soil
64	DCFTC-SB-318 (0-0.5)	480-222067-64	Soil
65	DCFTC-SB-318 (0.5-1.5)	480-222067-65	Soil
66	DCFTC-SB-318 (1.5-4)	480-222067-66	Soil
67	DCFTC-SB-319 (0-0.5)	480-222067-67	Soil
68	DCFTC-SB-319 (0.5-1.5)	480-222067-68	Soil
70	DCFTC-SB-320 (0-0.5)	480-222067-70	Soil
71	DCFTC-SB-320 (0.5-1.5)	480-222067-71	Soil
72	DCFTC-SB-320 (1.5-4)	480-222067-72	Soil
72MS	DCFTC-SB-320 (1.5-4)MS	480-222067-72MS	Soil
72MSD	DCFTC-SB-320 (1.5-4)MSD	480-222067-72MSD	Soil
73	DCFTC-DUP-3	480-222067-73	Soil
74	DCFTC-DUP-4	480-222067-74	Soil
75	DCFTC-SB-321 (0-0.5)	480-222067-75	Soil
76	DCFTC-SB-321 (0.5-1.5)	480-222067-76	Soil
77	DCFTC-SB-321 (1.5-4)	480-222067-77	Soil
77MS	DCFTC-SB-321 (1.5-4)MS	480-222067-77MS	Soil
77MSD	DCFTC-SB-321 (1.5-4)MSD	480-222067-77MSD	Soil
78	DCFTC-SB-322 (0-0.5)	480-222067-78	Soil
79	DCFTC-SB-322 (0.5-1.5)	480-222067-79	Soil
80	DCFTC-SB-323 (0-0.5)	480-222067-80	Soil
81	DCFTC-SB-324 (0-0.5)	480-222067-81	Soil
82	DCFTC-SB-324 (0.5-1.5)	480-222067-82	Soil
83	DCFTC-SB-325 (0-0.5)	480-222067-83	Soil

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
84	DCFTC-SB-325 (0.5-1.5)	480-222067-84	Soil
85	DCFTC-SB-325 (1.5-2.5)	480-222067-85	Soil
86	DCFTC-SB-326 (0-0.5)	480-222067-86	Soil
87	DCFTC-SB-327 (0-0.5)	480-222067-87	Soil
88	DCFTC-SB-328 (0-0.5)	480-222067-88	Soil
88MS	DCFTC-SB-328 (0-0.5)MS	480-222067-88MS	Soil
88MSD	DCFTC-SB-328 (0-0.5)MSD	480-222067-88MSD	Soil
89	DCFTC-SB-329 (0-0.5)	480-222067-89	Soil
90	DCFTC-SB-329 (0.5-1.5)	480-222067-90	Soil
91	DCFTC-SB-329 (1.5-2)	480-222067-91	Soil
92	DCFTC-SB-330 (0-0.5)	480-222067-92	Soil
93	DCFTC-SB-330 (0.5-1.5)	480-222067-93	Soil
94	DCFTC-SB-330 (1.5-3)	480-222067-94	Soil
95	DCFTC-SB-331 (0-0.5)	480-222067-95	Soil
96	DCFTC-SB-332 (0-0.5)	480-222067-96	Soil
97	DCFTC-SB-333 (0-0.5)	480-222067-97	Soil
98	DCFTC-SB-333 (0.5-1.5)	480-222067-98	Soil
99	DCFTC-SB-333 (1.5-3)	480-222067-99	Soil
100	DCFTC-SB-334 (0-0.5)	480-222067-100	Soil
101	DCFTC-SB-334 (0.5-1.5)	480-222067-101	Soil
102	DCFTC-SB-334 (1.5-4)	480-222067-102	Soil
103	DCFTC-SB-335 (0-0.5)	480-222067-103	Soil
104	DCFTC-SB-335 (0.5-1.5)	480-222067-104	Soil
105	DCFTC-SB-335 (1.5-4)	480-222067-105	Soil
106	DCFTC-SB-336 (0-0.5)	480-222067-106	Soil
107	DCFTC-SB-336 (0.5-1.5)	480-222067-107	Soil
108	DCFTC-SB-336 (1.5-4)	480-222067-108	Soil
109	DCFTC-SB-337 (0-0.5)	480-222067-109	Soil
110	DCFTC-SB-337 (0.5-1.5)	480-222067-110	Soil
111	DCFTC-SB-337 (1.5-4)	480-222067-111	Soil
112	DCFTC-SB-338 (0-0.5)	480-222067-112	Soil
113	DCFTC-SB-338 (0.5-1.5)	480-222067-113	Soil
114	DCFTC-SB-338 (1.5-4)	480-222067-114	Soil
115	DCFTC-SB-339 (0-0.5)	480-222067-115	Soil
116	DCFTC-SB-339 (0.5-1.5)	480-222067-116	Soil
117	DCFTC-SB-339 (1.5-2.5)	480-222067-117	Soil
118	DCFTC-SB-340 (0-0.5)	480-222067-118	Soil
119	DCFTC-SB-340 (0.5-1.5)	480-222067-119	Soil
120	DCFTC-SB-340 (1.5-4)	480-222067-120	Soil
120MS	DCFTC-SB-340 (1.5-4)MS	480-222067-120MS	Soil
120MSD	DCFTC-SB-340 (1.5-4)MSD	480-222067-120MSD	Soil
121	DCFTC-05	480-222067-121	Soil
122	DCFTC-DUP-06	480-222067-122	Soil
123	DCFTC-EB-02	480-222067-123	Water
124	DCFTC-EB-01	480-222067-124	Water
125	DCFTC-SB-319 (1.5-4)	480-222067-125	Soil

A Data Usability Summary Review was performed on the analytical data for one hundred twenty-two soil samples and two aqueous equipment blank samples collected on July 23-24, 2024 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl

Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	USEPA Method 537.1M

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the New York State Department of Environmental Conservation (NYSDEC) Data Review Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All samples were extracted within 14 days for water samples, 28 days for soil samples, and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were meet.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The field QC samples exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
DCFTC-EB-02	PFNA	0.31	None	All ND or >10X
	PFOS	3.1	None	All ND or >10X
DCFTC-EB-01	PFBA	1.2	None	All ND or >10X
	PFHxA	0.97	None	All ND or >10X
	PFNA	0.20	None	All ND or >10X
	PFOS	1.2	None	All ND or >10X
	PFOA	0.47	None	All ND or >10X
	PFPeA	0.79	None	All ND or >10X
	6:2 FTS	7.4	None	All ND or >10X
	8:2 FTS	2.7	None	All ND or >10X

Surrogate Spike Recoveries

- Several surrogates recovered low in several samples. The associated compounds were qualified as estimated (J/UJ)

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
77	PFDA	OK/25%/OK	J
	PFHxS	21%/-144%/41	None - 4X Rule Applies
	PFNA	35%/-240%/47	
	PFUnA	194%/174%/OK	J
	6:2 FTS	37%/-44%/OK	J
	8:2 FTS	-400%/-1263%/36	None - 4X Rule Applies
	PFHpS	OK/9%/OK	J
	PFOA	OK/-31%/41	J
77DL	PFOS	-27165%/-37391%/OK	None - 4X Rule Applies
88	PFPeA	OK/146%/OK	J
	PFTriA	OK/50%/OK	J
	PFUnA	OK/-47%/OK	None - 4X Rule Applies
	8:2 FTS	147%/OK/OK	J
	PFOS	183%/-173%/OK	None - 4X Rule Applies
120	8:2 FTS	214%/164%/OK	None - 4X Rule Applies
120DL	PFOS	1335%/OK/35	None - 4X Rule Applies

Laboratory Control Samples (LCS)

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples exhibited compounds with an ion ratio outside of QC limits and were flagged (I) by the laboratory. These results were qualified as estimated (J).
- Several samples were analyzed at various dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action required.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable for several compounds in several field duplicate samples. These results were qualified as estimated (J).

Compound	DCFTC-SB-302 (1.5-4) ug/kg	DCFTC-DUP-1 ug/kg	RPD	Qualifier
None	ND	ND	-	-

Compound	DCFTC-SB-315 (1-5-4) ug/kg	DCFTC-DUP-2 ug/kg	RPD	Qualifier
PFHpA	0.17	0.12	34%	None
PFHxS	0.37	0.48	26%	
PFHxA	0.17	0.20	16%	
PFNA	0.23	0.32	33%	
PFOS	0.54	0.29	60%	None - <5X RL
PFOA	0.19	0.18	5%	None
PFPeA	0.32	0.34	6%	
6:2 FTS	0.22	0.23	4%	

Compound	DCFTC-SB-320 (1.5-4) ug/kg	DCFTC-DUP-3 ug/kg	RPD	Qualifier
PFBS	ND	0.076	NC	None
PFHpS	ND	0.40	NC	
PFHpA	ND	0.23	NC	
PFHxS	1.6	3.8	81%	J
PFHxA	0.045	0.23	135%	None - <5X RL
PFNA	0.16	2.6	177%	J
PFOSA	ND	0.20	NC	None
PFOS	0.60	93	200%	J
PFOA	0.084	0.97	168%	None - <5X RL
PFUnA	ND	0.81	NC	None
PFPeA	0.077	0.26	109%	None - <5X RL
6:2 FTS	ND	1.3	NC	None
8:2 FTS	0.058	1.7	187%	None - <5X RL

Compound	DCFTC-DUP-4 ug/kg	DCFTC-SB-321 (1.5-4) ug/kg	RPD	Qualifier
PFBS	0.055	ND	NC	None
PFDA	3.4	8.2	83%	J
PFDoA	0.042	ND	NC	None
PFHpS	0.43	5.9	173%	J
PFHpA	0.57	2.5	126%	None - <5X RL
PFHxS	1.7	14	157%	J

Compound	DCFTC-DUP-4 ug/kg	DCFTC-SB-321 (1.5-4) ug/kg	RPD	Qualifier
PFHxA	0.45	1.4	103%	None - <5X RL
PFNA	2.1	22	165%	J
PFOSA	0.77	0.99	25%	None
PFOA	1.3	8.4	146%	J
PFTriA	0.040	ND	NC	None
PFUnA	8.6	7.1	19%	
PFPeA	0.53	1.4	90%	None - <5X RL
6:2 FTS	4.7	11	80%	J
PFDS	0.097	ND	NC	None
PFOS	180	2000	167%	J
8:2 FTS	23	100	125%	

Compound	DCFTC-SB-328 (0-0.5) ug/kg	DCFTC-05 ug/kg	RPD	Qualifier
PFBS	0.11	0.12	9%	None
PFBA	0.46	0.50	8%	
PFDA	1.6	1.9	17%	
PFDoA	0.62	1.3	71%	None - <5X RL
PFHpS	0.96	1.4	37%	None
PFHpA	2.0	2.4	18%	
PFHxS	5.7	8.0	34%	
PFHxA	1.6	1.9	17%	
PFNA	6.1	7.6	22%	
PFOSA	0.68	0.71	4%	
PFOA	3.8	5.2	31%	
PFTeA	0.13	0.41	104%	None - <5X RL
PFTriA	7.5	7.8	4%	None
PFUnA	22	32	37%	
PFPeA	2.3	2.7	16%	
6:2 FTS	1.5	2.3	42%	
8:2 FTS	1.7	2.4	34%	
PFDS	0.38	0.60	45%	
PFOS	140	190	30%	

Compound	DCFTC-SB-340 (1.5-4) ug/kg	DCFTC-DUP-06 ug/kg	RPD	Qualifier
PFDA	1.1	0.62	56%	None - <5X RL
PFHpS	0.044	0.090	69%	
PFHpA	0.32	0.29	10%	None
PFHxS	0.42	0.39	7%	
PFHxA	0.19	0.17	11%	
PFNA	0.30	0.42	33%	
PFOA	0.34	0.27	23%	
PFPeA	0.15	0.20	29%	
6:2 FTS	0.48	0.20	82%	None - <5X RL
8:2 FTS	8.9	1.1	156%	J
PFOS	58	110	62%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/13/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (0-0.5) | Lab Sample ID: 480-222067-1

Matrix: Solid | Lab File ID: PB240731A08.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 08:00

Extraction Method: SHAKE | Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.21(g) | Date Analyzed: 07/31/2024 13:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.3 % Solids: 96.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 | Units: ug/Kg

Preparation Batch No.: 206910 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.074
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.074
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.50	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.092
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.20	0.054
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.062
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.0	0.040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (0.5-1.5) Lab Sample ID: 480-222067-2

Matrix: Solid Lab File ID: PB240731A09.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 08:02

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.06(g) Date Analyzed: 07/31/2024 13:53

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.1 % Solids: 94.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (1.5-4) Lab Sample ID: 480-222067-3

Matrix: Solid Lab File ID: PB240731A10.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 08:30

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.15(g) Date Analyzed: 07/31/2024 14:01

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.6 % Solids: 87.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.083
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.56	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.069
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (4-6) Lab Sample ID: 480-222067-4

Matrix: Solid Lab File ID: PB240731A11.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 08:45

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.06(g) Date Analyzed: 07/31/2024 14:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 10.4 % Solids: 89.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.083
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.036	J	0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	UJ	0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.046	J	0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (4-6) Lab Sample ID: 480-222067-4

Matrix: Solid Lab File ID: PB240731A11.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 08:45

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.06(g) Date Analyzed: 07/31/2024 14:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 10.4 % Solids: 89.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	61		50-150
STL02280	M2-8:2 FTS	56		50-150
STL00996	13C2 PFDA	74		50-150
STL00998	13C2 PFDoA	68		50-150
STL00993	13C2 PFHxA	81		50-150
STL02116	13C2 PFTeDA	62		50-150
STL00997	13C2 PFUnA	74		50-150
STL00992	13C4 PFBA	76		50-150
STL01892	13C4 PFHpA	80		50-150
STL00990	13C4 PFOA	82		50-150
STL00995	13C5 PFNA	77		50-150
STL01893	13C5 PFPeA	75		50-150
STL01056	13C8 FOSA	46	*~~5~~	50-150
STL00994	18O2 PFHxS	57		50-150
STL02118	d3-NMeFOSAA	71		50-150
STL02117	d5-NEtFOSAA	72		50-150
STL00991	13C4 PFOS	57		50-150
STL02337	13C3 PFBS	56		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-302 (0-0.5) Lab Sample ID: 480-222067-5

Matrix: Solid Lab File ID: PB240731A12.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 08:50

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.06(g) Date Analyzed: 07/31/2024 14:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 2.5 % Solids: 97.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.076
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.076
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.094
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

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PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-302 (0.5-1.5) Lab Sample ID: 480-222067-6

Matrix: Solid Lab File ID: PB240731A13.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 08:52

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.03(g) Date Analyzed: 07/31/2024 14:26

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.6 % Solids: 96.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

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PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-302 (1.5-4) Lab Sample ID: 480-222067-7

Matrix: Solid Lab File ID: PB240731A14.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 08:55

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.18(g) Date Analyzed: 07/31/2024 14:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.7 % Solids: 92.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-302 (4-6) Lab Sample ID: 480-222067-8

Matrix: Solid Lab File ID: PB240731A17.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.10(g) Date Analyzed: 07/31/2024 14:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 10.2 % Solids: 89.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.082
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.082
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	UJ	0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.24	J	2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

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PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-302 (4-6) Lab Sample ID: 480-222067-8

Matrix: Solid Lab File ID: PB240731A17.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.10(g) Date Analyzed: 07/31/2024 14:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 10.2 % Solids: 89.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	76		50-150
STL02280	M2-8:2 FTS	70		50-150
STL00996	13C2 PFDA	83		50-150
STL00998	13C2 PFDoA	71		50-150
STL00993	13C2 PFHxA	93		50-150
STL02116	13C2 PFTeDA	60		50-150
STL00997	13C2 PFUnA	77		50-150
STL00992	13C4 PFBA	84		50-150
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	92		50-150
STL00995	13C5 PFNA	88		50-150
STL01893	13C5 PFPeA	83		50-150
STL01056	13C8 FOSA	49	*5-	50-150
STL00994	18O2 PFHxS	70		50-150
STL02118	d3-NMeFOSAA	83		50-150
STL02117	d5-NEtFOSAA	71		50-150
STL00991	13C4 PFOS	67		50-150
STL02337	13C3 PFBS	69		50-150

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-303 (0-0.5) Lab Sample ID: 480-222067-9

Matrix: Solid Lab File ID: PB240731A18.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:10

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.26(g) Date Analyzed: 07/31/2024 15:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.9 % Solids: 93.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.066	J	0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.24		0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.047	J	0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.037	J	0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.029	J J J	0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.21		0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.21		0.20	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.10	J	0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.082	J	0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.056	J	0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.19	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

10

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-303 (0.5-1.5) Lab Sample ID: 480-222067-10

Matrix: Solid Lab File ID: PB240731A19.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:12

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.06(g) Date Analyzed: 07/31/2024 15:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.5 % Solids: 93.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.075	J	0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	0.23		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.044	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.22		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	J	0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.19	J	0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.091	J	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.067	J	0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.077	J	0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.19	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

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PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-303 (1.5-4) Lab Sample ID: 480-222067-11

Matrix: Solid Lab File ID: PB240731A21.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:15

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.00(g) Date Analyzed: 07/31/2024 15:30

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 13.0 % Solids: 87.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.086
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.086
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.58	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.035
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.23	0.039
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.23	0.039
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.037
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.23	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.23	0.062
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.3	0.071
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.3	0.046
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

12

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-303 (4-6) Lab Sample ID: 480-222067-12

Matrix: Solid Lab File ID: PB240731A22.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:20

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.18(g) Date Analyzed: 07/31/2024 15:38

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 11.7 % Solids: 88.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.082
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.082
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

13

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-DUP-1 | Lab Sample ID: 480-222067-13

Matrix: Solid | Lab File ID: PB240731A23.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 12:00

Extraction Method: SHAKE | Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.26(g) | Date Analyzed: 07/31/2024 15:46

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 13.1 % Solids: 86.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 | Units: ug/Kg

Preparation Batch No.: 206910 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.082
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.082
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

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14

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-304 (0-0.5) Lab Sample ID: 480-222067-14

Matrix: Solid Lab File ID: PB240731A24.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:25

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.17(g) Date Analyzed: 07/31/2024 15:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.7 % Solids: 87.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.083
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.086	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.13	J	0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.030	J	0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.10	J	0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND	UJ	0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND	UJ	0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	J	0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.069
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

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PFAS ORGANICS ANALYSIS DATA SHEET

14

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-304 (0-0.5) Lab Sample ID: 480-222067-14

Matrix: Solid Lab File ID: PB240731A24.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:25

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.17(g) Date Analyzed: 07/31/2024 15:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.7 % Solids: 87.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	74		50-150
STL02280	M2-8:2 FTS	67		50-150
STL00996	13C2 PFDA	78		50-150
STL00998	13C2 PFDoA	62		50-150
STL00993	13C2 PFHxA	85		50-150
STL02116	13C2 PFTeDA	31	*S	50-150
STL00997	13C2 PFUnA	75		50-150
STL00992	13C4 PFBA	78		50-150
STL01892	13C4 PFHpA	82		50-150
STL00990	13C4 PFOA	80		50-150
STL00995	13C5 PFNA	76		50-150
STL01893	13C5 PFPeA	75		50-150
STL01056	13C8 FOSA	55		50-150
STL00994	18O2 PFHxS	64		50-150
STL02118	d3-NMeFOSAA	74		50-150
STL02117	d5-NEtFOSAA	69		50-150
STL00991	13C4 PFOS	61		50-150
STL02337	13C3 PFBS	65		50-150

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15

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-304 (0.5-1.5) Lab Sample ID: 480-222067-15

Matrix: Solid Lab File ID: PB240731A25.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:27

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.11(g) Date Analyzed: 07/31/2024 16:03

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 11.1 % Solids: 88.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.083
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.051	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	0.055	J	0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.030	J J	0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.052	J	0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.076	J	0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

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16

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-304 (1.5-4) Lab Sample ID: 480-222067-16

Matrix: Solid Lab File ID: PB240731A26.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:30

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.14(g) Date Analyzed: 07/31/2024 16:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 11.3 % Solids: 88.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.082
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.082
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.039	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	0.054	J	0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.12	J	0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

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PFAS ORGANICS ANALYSIS DATA SHEET

17

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-304 (4-6) Lab Sample ID: 480-222067-17

Matrix: Solid Lab File ID: PB240731A27.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:32

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.25(g) Date Analyzed: 07/31/2024 16:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 10.1 % Solids: 89.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.031	J	0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND	UJ	0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND	UJ	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.12	J	0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

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17

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-304 (4-6) Lab Sample ID: 480-222067-17

Matrix: Solid Lab File ID: PB240731A27.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:32

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.25(g) Date Analyzed: 07/31/2024 16:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 10.1 % Solids: 89.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	79		50-150
STL02280	M2-8:2 FTS	71		50-150
STL00996	13C2 PFDA	80		50-150
STL00998	13C2 PFDoA	70		50-150
STL00993	13C2 PFHxA	92		50-150
STL02116	13C2 PFTeDA	49	~~J-~~	50-150
STL00997	13C2 PFUnA	84		50-150
STL00992	13C4 PFBA	82		50-150
STL01892	13C4 PFHpA	88		50-150
STL00990	13C4 PFOA	83		50-150
STL00995	13C5 PFNA	81		50-150
STL01893	13C5 PFPeA	80		50-150
STL01056	13C8 FOSA	51		50-150
STL00994	18O2 PFHxS	72		50-150
STL02118	d3-NMeFOSAA	79		50-150
STL02117	d5-NEtFOSAA	75		50-150
STL00991	13C4 PFOS	62		50-150
STL02337	13C3 PFBS	71		50-150

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PFAS ORGANICS ANALYSIS DATA SHEET

18

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-305 (0-0.5) Lab Sample ID: 480-222067-18

Matrix: Solid Lab File ID: PB240731A28.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:50

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.12(g) Date Analyzed: 07/31/2024 16:27

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.0 % Solids: 97.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.076
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.076
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.50	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	0.031	J	0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.12	J	0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	0.082	J	0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.094
335-67-1	Perfluorooctanoic acid (PFOA)	0.065	J	0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.14	J	0.20	0.054
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.19	J	2.0	0.062
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.9		2.0	0.040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

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PFAS ORGANICS ANALYSIS DATA SHEET

19

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-305 (0.5-1.5) Lab Sample ID: 480-222067-19

Matrix: Solid Lab File ID: PB240731A29.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 09:55

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.00(g) Date Analyzed: 07/31/2024 16:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.2 % Solids: 92.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.081
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.081
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	0.035	J	0.22	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.16	J	0.22	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	0.11	J	0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.088	J	0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.15	J	0.22	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.27	J	2.2	0.067
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	5.9		2.2	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

20

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-305 (1.5-4) Lab Sample ID: 480-222067-20

Matrix: Solid Lab File ID: PB240731A30.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 10:05

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:22

Sample wt/vol: 5.04(g) Date Analyzed: 07/31/2024 16:43

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 10.0 % Solids: 90.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207002 Units: ug/Kg

Preparation Batch No.: 206910 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.083
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.065	J	0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.084	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.11	J	0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.082	J	0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.96	J	2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

21

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-305 (4-5) Lab Sample ID: 480-222067-21

Matrix: Solid Lab File ID: PB240731B24.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 10:10

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.16(g) Date Analyzed: 07/31/2024 20:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 8.8 % Solids: 91.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.080
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.080
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.084	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.051	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.039	J	0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.099
335-67-1	Perfluorooctanoic acid (PFOA)	0.061	J	0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.071	J	0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.12	J	2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.8	J	2.1	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

22

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-306 (0-0.5) | Lab Sample ID: 480-222067-22

Matrix: Solid | Lab File ID: PB240731B05.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 10:15

Extraction Method: SHAKE | Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.22(g) | Date Analyzed: 07/31/2024 17:32

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.2 % Solids: 95.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 | Units: ug/Kg

Preparation Batch No.: 206911 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.075
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.075
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.031	J	0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.50	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.041	J	0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.21		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	0.059	J	0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.67		0.20	0.093
335-67-1	Perfluorooctanoic acid (PFOA)	0.14	J	0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.071	J	0.20	0.054
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.062
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.0	0.040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

23

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-306 (0.5-1.5) Lab Sample ID: 480-222067-23

Matrix: Solid Lab File ID: PB240731B06.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 10:17

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.29(g) Date Analyzed: 07/31/2024 17:40

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.9 % Solids: 95.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.075
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.075
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.50	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.032	J	0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.15	J	0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	0.041	J	0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.55		0.20	0.092
335-67-1	Perfluorooctanoic acid (PFOA)	0.11	J	0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.063	J	0.20	0.054
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.062
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.0	0.040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

24

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-306 (1.5-4) | Lab Sample ID: 480-222067-24

Matrix: Solid | Lab File ID: PB240731B07.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 10:20

Extraction Method: SHAKE | Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.12(g) | Date Analyzed: 07/31/2024 17:48

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 8.0 % Solids: 92.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 | Units: ug/Kg

Preparation Batch No.: 206911 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.080
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.080
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.099
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

25

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-307 (0-0.5) Lab Sample ID: 480-222067-25

Matrix: Solid Lab File ID: PB240731B08.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 10:25

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.18(g) Date Analyzed: 07/31/2024 17:56

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.6 % Solids: 96.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.075
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.075
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.50	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.20	0.093
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.20	0.054
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.062
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.0	0.040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

26

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-307 (0.5-1.5) Lab Sample ID: 480-222067-26

Matrix: Solid Lab File ID: PB240731B09.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 10:27

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.07(g) Date Analyzed: 07/31/2024 18:04

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.2 % Solids: 95.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.11	J	0.21	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

27

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-307 (1.5-4) Lab Sample ID: 480-222067-27

Matrix: Solid Lab File ID: PB240731B10.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 10:30

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.28(g) Date Analyzed: 07/31/2024 18:12

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.2 % Solids: 84.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.084
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.084
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.56	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	J	0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.040	J	0.22	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.070	J	0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.050	J	0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.49		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.069
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.084	J	2.2	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

28

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-308 (0-0.5) | Lab Sample ID: 480-222067-28

Matrix: Solid | Lab File ID: PB240731B11.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 10:33

Extraction Method: SHAKE | Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.17(g) | Date Analyzed: 07/31/2024 18:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 0.9 % Solids: 99.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 | Units: ug/Kg

Preparation Batch No.: 206911 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.073
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.073
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.027	J	0.20	0.027
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.49	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.30		0.20	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.028
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.023
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.052	J	0.20	0.029
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.15	J	0.20	0.033
307-24-4	Perfluorohexanoic acid (PFHxA)	0.070	J	0.20	0.033
375-95-1	Perfluorononanoic acid (PFNA)	0.069	J	0.20	0.026
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.031
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.8		0.20	0.091
335-67-1	Perfluorooctanoic acid (PFOA)	0.046	J	0.20	0.036
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.024
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.031
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.033	J	0.20	0.028
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.083	J	0.20	0.053
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.21	J	2.0	0.060
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.10	J	2.0	0.039
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.021

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

29

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-308 (0.5-1.5) Lab Sample ID: 480-222067-29

Matrix: Solid Lab File ID: PB240731B12.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 10:34

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.10(g) Date Analyzed: 07/31/2024 18:28

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.2 % Solids: 93.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.61		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.10	J	0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.13	J	0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.075	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.16	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	6.2		0.21	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	0.10	J	0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.079	J	0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.14	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.059	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

30

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-308 (1.5-4) Lab Sample ID: 480-222067-30

Matrix: Solid Lab File ID: PB240731B13.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 10:36

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.23(g) Date Analyzed: 07/31/2024 18:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 19.6 % Solids: 80.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.089
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.089
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.033
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.59	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.24	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.24	0.034
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.24	0.029
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.091	J	0.24	0.036
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.083	J	0.24	0.040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.067	J	0.24	0.040
375-95-1	Perfluorononanoic acid (PFNA)	0.24		0.24	0.032
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.038
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	8.4		0.24	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.073	J	0.24	0.044
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.030
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.24	0.038
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.24	0.034
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.087	J	0.24	0.064
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.4	0.074
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.4	0.048
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.026

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

31

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-309 (0-0.5) Lab Sample ID: 480-222067-31

Matrix: Solid Lab File ID: PB240731B15.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.17(g) Date Analyzed: 07/31/2024 18:53

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 8.4 % Solids: 91.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.11	J	0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.043	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.052	J	0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.046	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.033	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.35		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.051	J	0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.33	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

32

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-309 (0.5-1.5) Lab Sample ID: 480-222067-32

Matrix: Solid Lab File ID: PB240731B16.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:02

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.11(g) Date Analyzed: 07/31/2024 19:01

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.5 % Solids: 95.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.083	J	0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.039	J	0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.044	J	0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.039	J	0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.039	J	0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.33		0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	0.060	J	0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.26	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

33

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-309 (1.5-4) Lab Sample ID: 480-222067-33

Matrix: Solid Lab File ID: PB240731B17.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:20

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.08(g) Date Analyzed: 07/31/2024 19:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.2 % Solids: 87.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.084
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.084
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.56	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.064	J	0.22	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.061	J	0.22	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.048	J	0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.056	J	0.22	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.061
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.16	J	2.2	0.070
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.92	J	2.2	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

34

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-309 (4-5) Lab Sample ID: 480-222067-34

Matrix: Solid Lab File ID: PB240731B18.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:22

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.10(g) Date Analyzed: 07/31/2024 19:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.8 % Solids: 90.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.082
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.082
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.097	J	0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.035	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	0.038	J	0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.030	J	0.22	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.16	J	0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.067
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.10	J	2.2	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

35

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-310 (0-0.5) Lab Sample ID: 480-222067-35

Matrix: Solid Lab File ID: PB240731B19.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:25

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.08(g) Date Analyzed: 07/31/2024 19:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.4 % Solids: 96.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.076
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.076
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.031	J	0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.035	J	0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.3	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

36

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-310 (0.5-1.5) Lab Sample ID: 480-222067-36

Matrix: Solid Lab File ID: PB240731B20.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:27

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.22(g) Date Analyzed: 07/31/2024 19:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.3 % Solids: 95.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.075
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.075
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.50	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	0.042	J	0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.046	J	0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	0.037	J	0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	0.034	J	0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.096	J	0.20	0.093
335-67-1	Perfluorooctanoic acid (PFOA)	0.037	J	0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.079	J	0.20	0.054
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.089	J	2.0	0.062
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.4		2.0	0.040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

37

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-310 (1.5-4) Lab Sample ID: 480-222067-37

Matrix: Solid Lab File ID: PB240731B21.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:30

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.02(g) Date Analyzed: 07/31/2024 19:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.7 % Solids: 90.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.083
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.041	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.053	J	0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.22	J J	0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.048	J J	0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

38

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-310 (4-6) Lab Sample ID: 480-222067-38

Matrix: Solid Lab File ID: PB240731B22.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:32

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.27(g) Date Analyzed: 07/31/2024 19:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.6 % Solids: 90.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.032	J	0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.059	J	0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.42		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

39

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-311 (0-0.5) Lab Sample ID: 480-222067-39

Matrix: Solid Lab File ID: PB240731B23.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:35

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.07(g) Date Analyzed: 07/31/2024 19:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 8.4 % Solids: 91.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207003 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.081
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.081
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.073	J	0.22	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.040	J	0.22	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.084	J	0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	0.046	J	0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.038	J	0.22	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.8		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.067
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

40

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-311 (0.5-1.5) Lab Sample ID: 480-222067-40

Matrix: Solid Lab File ID: PB240802A12.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:37

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.16(g) Date Analyzed: 08/02/2024 17:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.8 % Solids: 94.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.047	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	J	0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.082	J	0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.6		0.21	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.069	J	0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

41

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-311 (1.5-4) Lab Sample ID: 480-222067-41

Matrix: Solid Lab File ID: PB240802A13.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:39

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.04(g) Date Analyzed: 08/02/2024 17:15

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.2 % Solids: 90.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.082
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.082
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.077	J	0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.58		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.052	J	0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

42

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-311 (4-5) Lab Sample ID: 480-222067-42

Matrix: Solid Lab File ID: PB240802A14.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:41

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.21(g) Date Analyzed: 08/02/2024 17:23

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.2 % Solids: 92.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.035	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.16	J	0.21	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.14	J	2.1	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

43

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (0-0.5) Lab Sample ID: 480-222067-43

Matrix: Solid Lab File ID: PB240802A15.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:43

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.18(g) Date Analyzed: 08/02/2024 17:31

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.2 % Solids: 94.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.076
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.076
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.11	J	0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.11	J	0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.12	J	0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.13	J	0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.052	J	0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.14	J	0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	0.099	J	0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.097	J	0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.039	J	0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.18	J	0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.38	J	2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.3		2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

44

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (0.5-1.5) Lab Sample ID: 480-222067-44

Matrix: Solid Lab File ID: PB240802A16.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:45

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.01(g) Date Analyzed: 08/02/2024 17:40

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.6 % Solids: 93.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.080
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.080
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.11	J	0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	0.090	J	0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.12	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.12	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.050	J	0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.14	J	0.21	0.099
335-67-1	Perfluorooctanoic acid (PFOA)	0.091	J	0.21	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.10	J	0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.035	J	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.034	J	0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.16	J	0.21	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.26	J	2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.4	J	2.1	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

45

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (1.5-4) Lab Sample ID: 480-222067-45

Matrix: Solid Lab File ID: PB240802A17.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:49

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.04(g) Date Analyzed: 08/02/2024 17:48

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.8 % Solids: 92.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.081
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.081
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.067
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

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PFAS ORGANICS ANALYSIS DATA SHEET

46

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (4-6) Lab Sample ID: 480-222067-46

Matrix: Solid Lab File ID: PB240802A18.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 11:50

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.19(g) Date Analyzed: 08/02/2024 17:56

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 10.1 % Solids: 89.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.080
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.080
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.039	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.038	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.074	J	0.21	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.095	J	2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.56	J	2.1	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

47

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-313 (0-0.5) Lab Sample ID: 480-222067-47

Matrix: Solid Lab File ID: PB240802A19.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 12:40

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.12(g) Date Analyzed: 08/02/2024 18:04

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.6 % Solids: 96.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.076
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.076
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.094
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.076	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-313 (0.5-1.5) Lab Sample ID: 480-222067-48

Matrix: Solid Lab File ID: PB240802A20.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 12:42

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.15(g) Date Analyzed: 08/02/2024 18:12

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.0 % Solids: 95.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.057	J	0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.064	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

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PFAS ORGANICS ANALYSIS DATA SHEET

19

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-313 (0.5-4) Lab Sample ID: 480-222067-49

Matrix: Solid Lab File ID: PB240802A21.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.05(g) Date Analyzed: 08/02/2024 18:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 8.1 % Solids: 91.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.081
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.081
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.044	J	0.22	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.039	J J	0.22	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.078	J	0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.067
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

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PFAS ORGANICS ANALYSIS DATA SHEET

50

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-313 (4-6) | Lab Sample ID: 480-222067-50

Matrix: Solid | Lab File ID: PB240802A22.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 13:02

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.16(g) | Date Analyzed: 08/02/2024 18:28

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.0 % Solids: 93.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 | Units: ug/Kg

Preparation Batch No.: 206917 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.21	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.087	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

51

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-314 (0-0.5) Lab Sample ID: 480-222067-51

Matrix: Solid Lab File ID: PB240802A23.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:05

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.13(g) Date Analyzed: 08/02/2024 18:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.5 % Solids: 93.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.32	~~J~~ J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.28		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.43		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.18	J	0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.68	~~J~~ J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.045	~~J~~ J	0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	6.4		0.21	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	0.24		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.27		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.22	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.94	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

51

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-314 (0-0.5) | Lab Sample ID: 480-222067-51

Matrix: Solid | Lab File ID: PB240802A23.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 13:05

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.13(g) | Date Analyzed: 08/02/2024 18:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 | Units: ug/Kg

Preparation Batch No.: 206917 | Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	83		50-150
STL02280	M2-8:2 FTS	89		50-150
STL00996	13C2 PFDA	79		50-150
STL00998	13C2 PFDoA	65		50-150
STL00993	13C2 PFHxA	90		50-150
STL02116	13C2 PFTeDA	54		50-150
STL00997	13C2 PFUnA	78		50-150
STL00992	13C4 PFBA	82		50-150
STL01892	13C4 PFHpA	89		50-150
STL00990	13C4 PFOA	86		50-150
STL00995	13C5 PFNA	84		50-150
STL01893	13C5 PFPeA	80		50-150
STL01056	13C8 FOSA	44	*5-	50-150
STL00994	18O2 PFHxS	72		50-150
STL02118	d3-NMeFOSAA	68		50-150
STL02117	d5-NEtFOSAA	80		50-150
STL00991	13C4 PFOS	67		50-150
STL02337	13C3 PFBS	71		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

52

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-314 (0.5-1.5) | Lab Sample ID: 480-222067-52

Matrix: Solid | Lab File ID: PB240802A24.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 13:07

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.26(g) | Date Analyzed: 08/02/2024 18:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.9 % Solids: 93.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 | Units: ug/Kg

Preparation Batch No.: 206917 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.15	J	0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.29		0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.46		0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	J	0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.73	P J	0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.048	J	0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	7.0		0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	0.25		0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.24		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.23	J	2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.0	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

53

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-314 (1.5-4) Lab Sample ID: 480-222067-53

Matrix: Solid Lab File ID: PB240802A25.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:10

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.25(g) Date Analyzed: 08/02/2024 18:52

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 14.6 % Solids: 85.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.084
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.084
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.56	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.076	J R J	0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.15	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.068	J	0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.097	J	0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.20	J	0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.5		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.090	J	0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.13	J	0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.069
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

54

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (0-0.5) | Lab Sample ID: 480-222067-54

Matrix: Solid | Lab File ID: PB240802A26.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 13:15

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.27(g) | Date Analyzed: 08/02/2024 19:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.5 % Solids: 90.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 | Units: ug/Kg

Preparation Batch No.: 206917 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	0.46	J	0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.69		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.88		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.35		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.60		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.50		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.38		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.0		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.39		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.38		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.87		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.4		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.91		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.87	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.24	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

55

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (0.5-1.5) | Lab Sample ID: 480-222067-55

Matrix: Solid | Lab File ID: PB240802A27.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 13:17

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.08(g) | Date Analyzed: 08/02/2024 19:09

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.0 % Solids: 88.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 | Units: ug/Kg

Preparation Batch No.: 206917 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.084
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.084
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	0.64		0.56	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	1.3		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	1.4		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.56		0.22	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.38		0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.70		0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.71		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.3		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.63		0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.47		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.3		0.22	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.4		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.3		0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.62	J	2.2	0.069
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.31	J	2.2	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

54

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (1.5-4) Lab Sample ID: 480-222067-56

Matrix: Solid Lab File ID: PB240801A22.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:30

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.20(g) Date Analyzed: 08/01/2024 20:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 13.3 % Solids: 86.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207088 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.083
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.37		0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.17	J	0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.23		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.54		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	J	0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND	UJ	0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND	UJ	0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.32		0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.22	J	2.2	0.069
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

56

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (1.5-4) | Lab Sample ID: 480-222067-56

Matrix: Solid | Lab File ID: PB240801A22.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 13:30

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.20(g) | Date Analyzed: 08/01/2024 20:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 13.3 % Solids: 86.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207088 | Units: ug/Kg

Preparation Batch No.: 206917 | Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	80		50-150
STL02280	M2-8:2 FTS	79		50-150
STL00996	13C2 PFDA	81		50-150
STL00998	13C2 PFDoA	61		50-150
STL00993	13C2 PFHxA	91		50-150
STL02116	13C2 PFTeDA	42	~~*~~	50-150
STL00997	13C2 PFUnA	78		50-150
STL00992	13C4 PFBA	80		50 150
STL01892	13C4 PFHpA	85		50-150
STL00990	13C4 PFOA	87		50-150
STL00995	13C5 PFNA	83		50-150
STL01893	13C5 PFPeA	77		50-150
STL01056	13C8 FOSA	61		50-150
STL00994	18O2 PFHxS	71		50-150
STL02118	d3-NMeFOSAA	70		50-150
STL02117	d5-NEtFOSAA	69		50-150
STL00991	13C4 PFOS	71		50-150
STL02337	13C3 PFBS	71		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

57

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-DUP-2 Lab Sample ID: 480-222067-57

Matrix: Solid Lab File ID: PB240801A25.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.07(g) Date Analyzed: 08/01/2024 20:31

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.8 % Solids: 87.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207088 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.085
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.085
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.57	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.12	J	0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.48		0.23	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	J	0.23	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.32		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.29		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.18	J	0.23	0.042
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.34		0.23	0.061
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.23	J	2.3	0.070
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.3	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

58

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-316 (0-0.5) Lab Sample ID: 480-222067-58

Matrix: Solid Lab File ID: PB240801A26.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:32

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.03(g) Date Analyzed: 08/01/2024 20:39

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 14.5 % Solids: 85.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207088 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.087
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.087
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.064	J	0.23	0.033
375-22-4	Perfluorobutanoic acid (PFBA)	0.49	J	0.58	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	3.5		0.23	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	5.6		0.23	0.034
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.055	J	0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.93		0.23	0.035
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.96		0.23	0.040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.77		0.23	0.040
375-95-1	Perfluorononanoic acid (PFNA)	1.6		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.19	J	0.23	0.037
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	19		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	1.1		0.23	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.2		0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	7.4		0.23	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	8.3		0.23	0.034
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.90		0.23	0.063
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.85	J	2.3	0.072
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.0	J	2.3	0.047
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.64		0.23	0.026

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

59

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-316 (0.5-1.5) Lab Sample ID: 480-222067-59

Matrix: Solid Lab File ID: PB240801A27.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:34

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:42

Sample wt/vol: 5.15(g) Date Analyzed: 08/01/2024 20:47

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 8.4 % Solids: 91.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207088 Units: ug/Kg

Preparation Batch No.: 206917 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.037	J	0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	0.31	J	0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	1.9		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	14		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.037	J	0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.58		0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.56		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.47		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.54		0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.16	J	0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	15		0.21	0.099
335-67-1	Perfluorooctanoic acid (PFOA)	0.67		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	7.1		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	20		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	8.8		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.59		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.1	J	2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	6.2		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.84		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

60

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-316 (1.5-4) Lab Sample ID: 480-222067-60

Matrix: Solid Lab File ID: PB240801B04.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:40

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.06(g) Date Analyzed: 08/01/2024 21:27

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 28.4 % Solids: 71.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.8	0.10
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.8	0.10
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.28	0.039
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.69	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	0.61		0.28	0.040
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.28	0.040
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.17	J	0.28	0.033
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.28		0.28	0.041
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.69		0.28	0.047
307-24-4	Perfluorohexanoic acid (PFHxA)	0.23	J	0.28	0.047
375-95-1	Perfluorononanoic acid (PFNA)	1.1		0.28	0.037
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.10	J	0.28	0.044
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	44		0.28	0.13
335-67-1	Perfluorooctanoic acid (PFOA)	0.49		0.28	0.051
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.28	0.035
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.28	0.044
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.28	0.040
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.23	J	0.28	0.075
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.3	J	2.8	0.086
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	5.6		2.8	0.055
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.28	0.030

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

61

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-317 (0-0.5) Lab Sample ID: 480-222067-61

Matrix: Solid Lab File ID: PB240801B05.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:52

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.06(g) Date Analyzed: 08/01/2024 21:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.5 % Solids: 96.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.030	J	0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	0.41	J	0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.22		0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.091	J	0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.49	~~J~~ J	0.20	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.62		0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.44		0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	1.3		0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.23		0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.23		0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	8.7		0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	1.2		0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.033	J	0.20	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.10	J	0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.16	J	0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.9		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	19		2.0	0.063
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

61

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-317 (0-0.5) DL Lab Sample ID: 480-222067-61 DL

Matrix: Solid Lab File ID: PB240802A06.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:52

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.06(g) Date Analyzed: 08/02/2024 16:19

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.5 % Solids: 96.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	21		4.1	0.082

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02280	M2-8:2 FTS	107		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

62

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-317 (0.5-1.5) Lab Sample ID: 480-222067-62

Matrix: Solid Lab File ID: PB240801B26.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:54

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.29(g) Date Analyzed: 08/02/2024 00:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.5 % Solids: 94.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.075
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.075
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	0.65		0.50	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.38		0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	0.084	J	0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.052	J	0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.68		0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.25		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	1.8		0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	0.25		0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.24		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	6.8		0.20	0.093
335-67-1	Perfluorooctanoic acid (PFOA)	1.4		0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.031	J	0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.20		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.5		0.20	0.054
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.029	J	0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

62

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-317 (0.5-1.5) DL Lab Sample ID: 480-222067-62 DL

Matrix: Solid Lab File ID: PB240802A07.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 13:54

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.29(g) Date Analyzed: 08/02/2024 16:27

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.5 % Solids: 94.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	29		10	0.31
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	57		10	0.20

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	108		50-150
STL02280	M2-8:2 FTS	118		50-150

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PFAS ORGANICS ANALYSIS DATA SHEET

63

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-317 (1.5-4) Lab Sample ID: 480-222067-63

Matrix: Solid Lab File ID: PB240801B07.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.29(g) Date Analyzed: 08/01/2024 21:51

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 18.3 % Solids: 81.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.087
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.087
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.053	J	0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	0.72		0.58	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.23	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.034
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.4		0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.1		0.23	0.035
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.7		0.23	0.039
307-24-4	Perfluorohexanoic acid (PFHxA)	3.0		0.23	0.039
375-95-1	Perfluorononanoic acid (PFNA)	5.7	J	0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.037
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	26		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	2.4		0.23	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.034
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.7		0.23	0.062
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	12		2.3	0.072
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.061	J	2.3	0.046
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

64

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-318 (0-0.5) Lab Sample ID: 480-222067-64

Matrix: Solid Lab File ID: PB240801B29.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:05

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.08(g) Date Analyzed: 08/02/2024 00:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.7 % Solids: 96.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.12	J	0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.28		0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.27		0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.66		0.20	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.25		0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.2		0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.41		0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.19	J	0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.053	J	0.20	0.033
335-67-1	Perfluorooctanoic acid (PFOA)	0.26		0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.15	J	0.20	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.093	J	0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.16	J	0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.29		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.34	J	2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.43	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.13	J	0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

64

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-318 (0-0.5) DL Lab Sample ID: 480-222067-64 DL

Matrix: Solid Lab File ID: PB240801B08.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:05

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.08(g) Date Analyzed: 08/01/2024 21:59

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.7 % Solids: 96.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	83		1.0	0.48

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	87		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

65

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-318 (0.5-1.5) Lab Sample ID: 480-222067-65

Matrix: Solid Lab File ID: PB240801B31.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:07

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.01(g) Date Analyzed: 08/02/2024 01:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.7 % Solids: 95.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.15	J	0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.29		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.30		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.59		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.7		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.41		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.17	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.044	J	0.21	0.034
335-67-1	Perfluorooctanoic acid (PFOA)	0.25		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.16	J	0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.12	J	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.16	J	0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.29		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.42	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.56	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.11	J	0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

65

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-318 (0.5-1.5) DL Lab Sample ID: 480-222067-65 DL

Matrix: Solid Lab File ID: PB240801B09.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:07

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.01(g) Date Analyzed: 08/01/2024 22:08

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.7 % Solids: 95.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	71		1.0	0.49

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	81		50-150

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-318 (1.5-4) Lab Sample ID: 480-222067-66

Matrix: Solid Lab File ID: PB240801B10.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:10

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.05(g) Date Analyzed: 08/01/2024 22:16

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.5 % Solids: 87.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.085
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.085
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	0.52	J	0.57	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.81		0.23	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.64		0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.66		0.23	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	1.7		0.23	0.038
375-95-1	Perfluorononanoic acid (PFNA)	1.7		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	13		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	1.3		0.23	0.042
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.3		0.23	0.061
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	19		2.3	0.070
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.3	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

67

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-319 (0-0.5) Lab Sample ID: 480-222067-67

Matrix: Solid Lab File ID: PB240801B11.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:15

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.11(g) Date Analyzed: 08/01/2024 22:24

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.2 % Solids: 92.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.058	J	0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.072	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.18	J	0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.075	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.16	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.2		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.087	J	0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.13	J	0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.35	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.26	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

68

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-319 (0.5-1.5) Lab Sample ID: 480-222067-68

Matrix: Solid Lab File ID: PB240801B12.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:17

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.24(g) Date Analyzed: 08/01/2024 22:32

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.3 % Solids: 90.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.062	J X J	0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.044	J X J	0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.079	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.25		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.081	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.22		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.8		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.14	J	0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.13	J	0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.22	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.23	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

70

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-320 (0-0.5) Lab Sample ID: 480-222067-70

Matrix: Solid Lab File ID: PB240801B13.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:22

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.01(g) Date Analyzed: 08/01/2024 22:40

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.7 % Solids: 96.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.20	J	0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.034	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.031	~~J~~ ~~J~~ J	0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.24		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.18	J	0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.3		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.48		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.052	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.074	J	0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	18		0.21	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	0.40		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.29		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.0	J	2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.1		2.1	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

71

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-320 (0.5-1.5) Lab Sample ID: 480-222067-71

Matrix: Solid Lab File ID: PB240801B44.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:24

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.05(g) Date Analyzed: 08/02/2024 02:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.6 % Solids: 95.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.14	J	0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.040	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.040	~~J~~ ~~Y~~ J	0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.32		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.16	J	0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.8		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.36		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.049	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.058	J	0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	26		0.21	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	0.32		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.080	J	0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.21		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.6	J	2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.0	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

72

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-320 (1.5-4) Lab Sample ID: 480-222067-72

Matrix: Solid Lab File ID: PB240801B15.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:26

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.07(g) Date Analyzed: 08/01/2024 22:56

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 23.4 % Solids: 76.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.6	0.097
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.6	0.097
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.26	0.036
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.64	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.26	0.037
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.26	0.037
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.26	0.031
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.26	0.039
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.6	J	0.26	0.044
307-24-4	Perfluorohexanoic acid (PFHxA)	0.045	J	0.26	0.044
375-95-1	Perfluorononanoic acid (PFNA)	0.16	J	0.26	0.035
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.26	0.041
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.60	J	0.26	0.12
335-67-1	Perfluorooctanoic acid (PFOA)	0.084	J	0.26	0.048
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.26	0.032
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.26	0.041
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.26	0.037
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.077	J	0.26	0.070
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.6	0.080
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.058	J	2.6	0.052
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.26	0.028

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

73

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-DUP-3 Lab Sample ID: 480-222067-73

Matrix: Solid Lab File ID: PB240801B33.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.07(g) Date Analyzed: 08/02/2024 01:21

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 44.1 % Solids: 55.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.5	0.13
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.5	0.13
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.076	J	0.35	0.049
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.89	0.32
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.35	0.051
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.35	0.051
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.40		0.35	0.042
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23	J	0.35	0.053
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.8	J	0.35	0.060
307-24-4	Perfluorohexanoic acid (PFHxA)	0.23	J	0.35	0.060
375-95-1	Perfluorononanoic acid (PFNA)	2.6	J	0.35	0.048
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.20	J	0.35	0.056
335-67-1	Perfluorooctanoic acid (PFOA)	0.97		0.35	0.065
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.35	0.044
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.35	0.056
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.81		0.35	0.051
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.26	J	0.35	0.095
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.3	J	3.5	0.11
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.7	J	3.5	0.071
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.35	0.039

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PFAS ORGANICS ANALYSIS DATA SHEET

73

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-DUP-3 DL Lab Sample ID: 480-222067-73 DL

Matrix: Solid Lab File ID: PB240801B18.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.07(g) Date Analyzed: 08/01/2024 23:20

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 44.1 % Solids: 55.9 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	93	J	0.71	0.33

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	78		50-150

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PFAS ORGANICS ANALYSIS DATA SHEET

74

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-DUP-4 Lab Sample ID: 480-222067-74

Matrix: Solid Lab File ID: PB240801B35.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 15:00

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.21(g) Date Analyzed: 08/02/2024 01:38

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 23.0 % Solids: 77.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.5	0.093
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.5	0.093
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.055	J	0.25	0.035
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.62	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	3.4	J	0.25	0.036
307-55-1	Perfluorododecanoic acid (PFDoA)	0.042	J	0.25	0.036
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.43	J	0.25	0.030
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.57		0.25	0.037
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.7	J	0.25	0.042
307-24-4	Perfluorohexanoic acid (PFHxA)	0.45		0.25	0.042
375-95-1	Perfluorononanoic acid (PFNA)	2.1	J	0.25	0.034
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.77		0.25	0.040
335-67-1	Perfluorooctanoic acid (PFOA)	1.3	J	0.25	0.046
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.25	0.031
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.040	J	0.25	0.040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	8.6		0.25	0.036
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.53		0.25	0.067
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	4.7	J	2.5	0.077
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.097	J	0.25	0.027

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PFAS ORGANICS ANALYSIS DATA SHEET

74

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-DUP-4 DL | Lab Sample ID: 480-222067-74 DL

Matrix: Solid | Lab File ID: PB240801B19.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 15:00

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.21(g) | Date Analyzed: 08/01/2024 23:28

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 23.0 % Solids: 77.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 | Units: ug/Kg

Preparation Batch No.: 206920 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	180	J	2.5	1.2
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	23	~~J~~ J	25	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02280	M2-8:2 FTS	109		50-150
STL00991	13C4 PFOS	79		50-150

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75

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (0-0.5) Lab Sample ID: 480-222067-75

Matrix: Solid Lab File ID: PB240801B20.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:35

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.11(g) Date Analyzed: 08/01/2024 23:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.2 % Solids: 92.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.036	J	0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.26		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.27		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.35		0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.65		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.22		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.67		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	29		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.98		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.037	J	0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.32		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.4		2.1	0.065
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

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PFAS ORGANICS ANALYSIS DATA SHEET

75

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (0-0.5) DL | Lab Sample ID: 480-222067-75 DL

Matrix: Solid | Lab File ID: PB240802A08.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 14:35

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.11(g) | Date Analyzed: 08/02/2024 16:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 2

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.2 % Solids: 92.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 | Units: ug/Kg

Preparation Batch No.: 206920 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	22		4.2	0.084

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02280	M2-8:2 FTS	98		50-150

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76

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (0.5-1.5) Lab Sample ID: 480-222067-76

Matrix: Solid Lab File ID: PB240801B21.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:35

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.23(g) Date Analyzed: 08/01/2024 23:44

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.8 % Solids: 84.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.085
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.085
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.073	J	0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.57	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.043	J X J	0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.93		0.23	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.91		0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.0		0.23	0.039
307-24-4	Perfluorohexanoic acid (PFHxA)	0.32		0.23	0.039
375-95-1	Perfluorononanoic acid (PFNA)	2.6		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	13		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	5.6		0.23	0.042
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.42		0.23	0.061
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	19		2.3	0.070
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.9		2.3	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

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PFAS ORGANICS ANALYSIS DATA SHEET

77

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) Lab Sample ID: 480-222067-77

Matrix: Solid Lab File ID: PB240731D26.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:37

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.02(g) Date Analyzed: 08/01/2024 00:55

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 39.6 % Solids: 60.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207008 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		33	1.2
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		33	1.2
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		3.3	0.46
375-22-4	Perfluorobutanoic acid (PFBA)	ND		8.2	3.0
335-76-2	Perfluorodecanoic acid (PFDA)	8.2	~~F1~~ J	3.3	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		3.3	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	5.9	~~F1~~ J	3.3	0.40
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.5	J	3.3	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	14	~~F2~~ J	3.3	0.56
307-24-4	Perfluorohexanoic acid (PFHxA)	1.4	~~J F1~~ J	3.3	0.56
375-95-1	Perfluorononanoic acid (PFNA)	22	~~F2~~ J	3.3	0.45
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.99	J	3.3	0.53
335-67-1	Perfluorooctanoic acid (PFOA)	8.4	~~F1 F2~~ J	3.3	0.61
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		3.3	0.41
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		3.3	0.53
2058-94-8	Perfluoroundecanoic acid (PFUnA)	7.1	~~F1~~ J	3.3	0.48
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.4	J	3.3	0.89
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	11	~~J F1~~ J	33	1.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	100	~~F2~~ J	33	0.66
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		3.3	0.36

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) DL Lab Sample ID: 480-222067-77 DL

Matrix: Solid Lab File ID: PB240730B24.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 14:37

Extraction Method: SHAKE Date Extracted: 07/29/2024 07:30

Sample wt/vol: 5.02(g) Date Analyzed: 07/31/2024 04:06

Con. Extract Vol.: 10(mL) Dilution Factor: 100

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 39.6 % Solids: 60.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 206992 Units: ug/Kg

Preparation Batch No.: 206911 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2000	J	33	15

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	66		50-150

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Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0-0.5) | Lab Sample ID: 480-222067-78

Matrix: Solid | Lab File ID: PB240801B37.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 07:45

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.07(g) | Date Analyzed: 08/02/2024 01:54

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 60.5 % Solids: 39.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 | Units: ug/Kg

Preparation Batch No.: 206920 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.19
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.19
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.65		0.50	0.070
375-22-4	Perfluorobutanoic acid (PFBA)	11		1.2	0.45
335-76-2	Perfluorodecanoic acid (PFDA)	31		0.50	0.072
307-55-1	Perfluorododecanoic acid (PFDoA)	24		0.50	0.072
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.1		0.50	0.060
375-85-9	Perfluoroheptanoic acid (PFHpA)	14		0.50	0.075
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	12		0.50	0.085
307-24-4	Perfluorohexanoic acid (PFHxA)	8.2		0.50	0.085
375-95-1	Perfluorononanoic acid (PFNA)	19		0.50	0.067
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.67		0.50	0.080
335-67-1	Perfluorooctanoic acid (PFOA)	16		0.50	0.092
376-06-7	Perfluorotetradecanoic acid (PFTeA)	11		0.50	0.062
72629-94-8	Perfluorotridecanoic acid (PFTriA)	45		0.50	0.080
2058-94-8	Perfluoroundecanoic acid (PFUnA)	73		0.50	0.072
2706-90-3	Perfluoropentanoic acid (PFPeA)	24		0.50	0.13
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.4	J	5.0	0.15
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.6		5.0	0.10
335-77-3	Perfluorodecanesulfonic acid (PFDS)	3.3		0.50	0.055

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78

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0-0.5) DL Lab Sample ID: 480-222067-78 DL

Matrix: Solid Lab File ID: PB240801B22.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 07:45

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.07(g) Date Analyzed: 08/01/2024 23:52

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 60.5 % Solids: 39.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	190		1.0	0.46

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	64		50-150

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Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0.5-1.5) | Lab Sample ID: 480-222067-79

Matrix: Solid | Lab File ID: PB240801B39.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 07:50

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.03(g) | Date Analyzed: 08/02/2024 02:10

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 59.6 % Solids: 40.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 | Units: ug/Kg

Preparation Batch No.: 206920 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.9	0.18
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.9	0.18
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.73		0.49	0.069
375-22-4	Perfluorobutanoic acid (PFBA)	7.7		1.2	0.44
335-76-2	Perfluorodecanoic acid (PFDA)	30		0.49	0.071
307-55-1	Perfluorododecanoic acid (PFDoA)	25		0.49	0.071
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.7		0.49	0.059
375-85-9	Perfluoroheptanoic acid (PFHpA)	13		0.49	0.074
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	19		0.49	0.084
307-24-4	Perfluorohexanoic acid (PFHxA)	6.6		0.49	0.084
375-95-1	Perfluorononanoic acid (PFNA)	19		0.49	0.066
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.1		0.49	0.079
335-67-1	Perfluorooctanoic acid (PFOA)	15		0.49	0.091
376-06-7	Perfluorotetradecanoic acid (PFTeA)	11		0.49	0.062
72629-94-8	Perfluorotridecanoic acid (PFTriA)	54		0.49	0.079
2058-94-8	Perfluoroundecanoic acid (PFUnA)	73		0.49	0.071
2706-90-3	Perfluoropentanoic acid (PFPeA)	18		0.49	0.13
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.6	J	4.9	0.15
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	13		4.9	0.099
335-77-3	Perfluorodecanesulfonic acid (PFDS)	3.6		0.49	0.054

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PFAS ORGANICS ANALYSIS DATA SHEET

79

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0.5-1.5) Lab Sample ID: 480-222067-79

Matrix: Solid Lab File ID: PB240812A06.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 07:50

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.03(g) Date Analyzed: 08/12/2024 11:08

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 59.6 % Solids: 40.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207420 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	240		2.5	1.1

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	86		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

80

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) | Lab Sample ID: 480-222067-80

Matrix: Solid | Lab File ID: PB240801B41.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 08:05

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.07(g) | Date Analyzed: 08/02/2024 02:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 46.6 % Solids: 53.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 | Units: ug/Kg

Preparation Batch No.: 206920 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.22	J	3.7	0.14
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.7	0.14
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.37	0.052
375-22-4	Perfluorobutanoic acid (PFBA)	0.72	J	0.92	0.33
335-76-2	Perfluorodecanoic acid (PFDA)	1.9		0.37	0.054
307-55-1	Perfluorododecanoic acid (PFDoA)	0.30	J	0.37	0.054
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.8		0.37	0.044
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.3		0.37	0.055
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.6		0.37	0.063
307-24-4	Perfluorohexanoic acid (PFHxA)	1.7		0.37	0.063
375-95-1	Perfluorononanoic acid (PFNA)	8.9		0.37	0.050
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.2		0.37	0.059
335-67-1	Perfluorooctanoic acid (PFOA)	3.0		0.37	0.068
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND	UJ	0.37	0.046
72629-94-8	Perfluorotridecanoic acid (PFTriA)	4.0	J	0.37	0.059
2058-94-8	Perfluoroundecanoic acid (PFUnA)	11		0.37	0.054
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.9		0.37	0.10
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.0		3.7	0.11
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	28		3.7	0.074
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.8	~~J~~ J	0.37	0.041

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

80

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) Lab Sample ID: 480-222067-80

Matrix: Solid Lab File ID: PB240801B41.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:05

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.07(g) Date Analyzed: 08/02/2024 02:26

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 46.6 % Solids: 53.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	93		50-150
STL02280	M2-8:2 FTS	102		50-150
STL00996	13C2 PFDA	87		50-150
STL00998	13C2 PFDoA	71		50-150
STL00993	13C2 PFHxA	90		50-150
STL02116	13C2 PFTeDA	29	*5=	50-150
STL00997	13C2 PFUnA	89		50-150
STL00992	13C4 PFBA	79		50-150
STL01892	13C4 PFHpA	87		50-150
STL00990	13C4 PFOA	85		50-150
STL00995	13C5 PFNA	73		50-150
STL01893	13C5 PFPeA	78		50-150
STL01056	13C8 FOSA	69		50-150
STL00994	18O2 PFHxS	81		50-150
STL02118	d3-NMeFOSAA	89		50-150
STL02117	d5-NEtFOSAA	101		50-150
STL00991	13C4 PFOS	69		50-150
STL02337	13C3 PFBS	76		50-150

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PFAS ORGANICS ANALYSIS DATA SHEET

80

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) DL Lab Sample ID: 480-222067-80 DL

Matrix: Solid Lab File ID: PB240801B24.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:05

Extraction Method: SHAKE Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.07(g) Date Analyzed: 08/02/2024 00:09

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 46.6 % Solids: 53.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 Units: ug/Kg

Preparation Batch No.: 206920 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	430		3.7	1.7

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	74		50-150

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PFAS ORGANICS ANALYSIS DATA SHEET

81

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0-0.5) | Lab Sample ID: 480-222067-81

Matrix: Solid | Lab File ID: PB240805A08.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 08:20

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.00(g) | Date Analyzed: 08/05/2024 13:08

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 21.8 % Solids: 78.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.6	0.096
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.6	0.096
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.60		0.26	0.036
375-22-4	Perfluorobutanoic acid (PFBA)	2.8		0.64	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	1.9		0.26	0.037
307-55-1	Perfluorododecanoic acid (PFDoA)	0.37		0.26	0.037
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.57		0.26	0.031
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.1		0.26	0.038
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	7.7		0.26	0.043
307-24-4	Perfluorohexanoic acid (PFHxA)	6.2		0.26	0.043
375-95-1	Perfluorononanoic acid (PFNA)	3.9		0.26	0.035
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.34		0.26	0.041
335-67-1	Perfluorooctanoic acid (PFOA)	3.8		0.26	0.047
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.41		0.26	0.032
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.26	0.041
2058-94-8	Perfluoroundecanoic acid (PFUnA)	7.1		0.26	0.037
2706-90-3	Perfluoropentanoic acid (PFPeA)	12		0.26	0.069
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.5	J	2.6	0.079
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.92	J	2.6	0.051
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.15	J	0.26	0.028

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PFAS ORGANICS ANALYSIS DATA SHEET

81

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0-0.5) DL Lab Sample ID: 480-222067-81 DL

Matrix: Solid Lab File ID: PB240805A32.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:20

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.00(g) Date Analyzed: 08/05/2024 16:22

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 21.8 % Solids: 78.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	200		1.3	0.59

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	78		50-150

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82

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) Lab Sample ID: 480-222067-82

Matrix: Solid Lab File ID: PB240805A09.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:22

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.14(g) Date Analyzed: 08/05/2024 13:16

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.9 % Solids: 84.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.087
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.087
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.082	J	0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	0.74		0.58	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	1.9		0.23	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	0.046	J	0.23	0.034
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.28		0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.0		0.23	0.035
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.9		0.23	0.039
307-24-4	Perfluorohexanoic acid (PFHxA)	1.2		0.23	0.039
375-95-1	Perfluorononanoic acid (PFNA)	2.5		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.60		0.23	0.037
335-67-1	Perfluorooctanoic acid (PFOA)	2.2		0.23	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.032	J	0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.29		0.23	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	7.5		0.23	0.034
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.5		0.23	0.062
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.0		2.3	0.072
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.3		2.3	0.046
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.026	J	0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

82

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) DL Lab Sample ID: 480-222067-82 DL

Matrix: Solid Lab File ID: PB240805A34.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:22

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.14(g) Date Analyzed: 08/05/2024 16:38

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.9 % Solids: 84.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	110		0.46	0.22

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	82		50-150

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Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-325 (0-0.5) | Lab Sample ID: 480-222067-83

Matrix: Solid | Lab File ID: PB240805A10.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 08:28

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.00(g) | Date Analyzed: 08/05/2024 13:24

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 13.0 % Solids: 87.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.086
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.086
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.055	J	0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	0.99		0.57	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	0.27		0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	0.10	J	0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.029	~~J~~ J	0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	J	0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.38		0.23	0.039
307-24-4	Perfluorohexanoic acid (PFHxA)	0.27		0.23	0.039
375-95-1	Perfluorononanoic acid (PFNA)	0.38		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.037
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	25		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.16	J	0.23	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.033	J	0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.75		0.23	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.4		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.6		0.23	0.062
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.3	0.071
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.092	J	2.3	0.046
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.032	J	0.23	0.025

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PFAS ORGANICS ANALYSIS DATA SHEET

84

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-325 (0.5-1.5) Lab Sample ID: 480-222067-84

Matrix: Solid Lab File ID: PB240805A11.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:30

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.06(g) Date Analyzed: 08/05/2024 13:32

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.3 % Solids: 90.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.082
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.082
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.037	J	0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	1.3		0.54	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.22		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	0.059	J	0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.42		0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	0.33		0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.49		0.22	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	33		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.22		0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.041	J	0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.53		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.6		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.1		0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.054	J	2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

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PFAS ORGANICS ANALYSIS DATA SHEET

85

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-325 (1.5-2.5) | Lab Sample ID: 480-222067-85

Matrix: Solid | Lab File ID: PB240805A12.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 08:35

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.16(g) | Date Analyzed: 08/05/2024 13:40

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.3 % Solids: 92.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.13	J	0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	0.66		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.24		0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.17	J	0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.42		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.3		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.92		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.67		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
335-67-1	Perfluorooctanoic acid (PFOA)	0.32		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.16	J	0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.3		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.1		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.067	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-325 (1.5-2.5) Lab Sample ID: 480-222067-85

Matrix: Solid Lab File ID: PB240802A35.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:35

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.16(g) Date Analyzed: 08/02/2024 20:13

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.3 % Solids: 92.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	61		4.2	1.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	79		50-150

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-326 (0-0.5) Lab Sample ID: 480-222067-86

Matrix: Solid Lab File ID: PB240805A13.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:40

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.02(g) Date Analyzed: 08/05/2024 13:48

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 46.4 % Solids: 53.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.7	0.14
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.7	0.14
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.37	0.052
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.93	0.33
335-76-2	Perfluorodecanoic acid (PFDA)	0.60		0.37	0.054
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.37	0.054
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.37		0.37	0.045
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.44		0.37	0.056
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.7		0.37	0.063
307-24-4	Perfluorohexanoic acid (PFHxA)	0.54		0.37	0.063
375-95-1	Perfluorononanoic acid (PFNA)	1.7		0.37	0.050
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.061	J	0.37	0.059
335-67-1	Perfluorooctanoic acid (PFOA)	0.93		0.37	0.069
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.37	0.046
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.37	0.059
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.0		0.37	0.054
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.76		0.37	0.10
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.1	J	3.7	0.12
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.69	J	3.7	0.074
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.37	0.041

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86

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-326 (0-0.5) DL Lab Sample ID: 480-222067-86 DL

Matrix: Solid Lab File ID: PB240805A36.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:40

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.02(g) Date Analyzed: 08/05/2024 16:54

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 46.4 % Solids: 53.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	98		0.74	0.35

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	85		50-150

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-327 (0-0.5) Lab Sample ID: 480-222067-87

Matrix: Solid Lab File ID: PB240805A14.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:45

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.03(g) Date Analyzed: 08/05/2024 13:56

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 38.5 % Solids: 61.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.2	0.12
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.2	0.12
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.079	J x J	0.32	0.045
375-22-4	Perfluorobutanoic acid (PFBA)	0.54	J	0.81	0.29
335-76-2	Perfluorodecanoic acid (PFDA)	0.95		0.32	0.047
307-55-1	Perfluorododecanoic acid (PFDoA)	0.28	J	0.32	0.047
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.61		0.32	0.039
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.5		0.32	0.048
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.3		0.32	0.055
307-24-4	Perfluorohexanoic acid (PFHxA)	1.5		0.32	0.055
375-95-1	Perfluorononanoic acid (PFNA)	3.8		0.32	0.044
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.56		0.32	0.052
335-67-1	Perfluorooctanoic acid (PFOA)	2.6		0.32	0.060
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.049	J	0.32	0.040
72629-94-8	Perfluorotridecanoic acid (PFTriA)	3.4		0.32	0.052
2058-94-8	Perfluoroundecanoic acid (PFUnA)	7.1		0.32	0.047
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.2		0.32	0.087
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.7	J	3.2	0.10
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.3	J	3.2	0.065
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.21	J	0.32	0.036

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87

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-327 (0-0.5) DL Lab Sample ID: 480-222067-87 DL

Matrix: Solid Lab File ID: PB240805A38.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:45

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.03(g) Date Analyzed: 08/05/2024 17:10

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 38.5 % Solids: 61.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	110		0.65	0.30

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	71		50-150

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Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-328 (0-0.5) | Lab Sample ID: 480-222067-88

Matrix: Solid | Lab File ID: PB240805A15.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 08:50

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.00(g) | Date Analyzed: 08/05/2024 14:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 34.8 % Solids: 65.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.1	0.12
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.1	0.12
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.11	J	0.31	0.043
375-22-4	Perfluorobutanoic acid (PFBA)	0.46	J	0.77	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	1.6		0.31	0.044
307-55-1	Perfluorododecanoic acid (PFDoA)	0.62		0.31	0.044
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.96		0.31	0.037
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.0		0.31	0.046
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.7		0.31	0.052
307-24-4	Perfluorohexanoic acid (PFHxA)	1.6		0.31	0.052
375-95-1	Perfluorononanoic acid (PFNA)	6.1		0.31	0.041
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.68		0.31	0.049
335-67-1	Perfluorooctanoic acid (PFOA)	3.8		0.31	0.057
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.13	J	0.31	0.038
72629-94-8	Perfluorotridecanoic acid (PFTriA)	7.5	~~FJ~~ J	0.31	0.049
2058-94-8	Perfluoroundecanoic acid (PFUnA)	22		0.31	0.044
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.3	~~FJ~~ J	0.31	0.083
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.5	J	3.1	0.095
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.7	~~J~~ ~~FJ~~ J	3.1	0.061
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.38		0.31	0.034

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-328 (0-0.5) Lab Sample ID: 480-222067-88

Matrix: Solid Lab File ID: PB240802A38.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 08:50

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.00(g) Date Analyzed: 08/02/2024 20:37

Con. Extract Vol.: 10(mL) Dilution Factor: 20

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 34.8 % Solids: 65.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207108 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	140		6.1	2.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	83		50-150

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Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-329 (0-0.5) | Lab Sample ID: 480-222067-89

Matrix: Solid | Lab File ID: PB240805A18.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 08:55

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.00(g) | Date Analyzed: 08/05/2024 14:28

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.6 % Solids: 84.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.089
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.089
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.033
375-22-4	Perfluorobutanoic acid (PFBA)	0.96		0.59	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	J	0.24	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	0.21	J	0.24	0.034
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.24	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	J	0.24	0.036
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.30		0.24	0.040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.25		0.24	0.040
375-95-1	Perfluorononanoic acid (PFNA)	0.35		0.24	0.032
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.038
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.9		0.24	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.31		0.24	0.044
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.14	J J	0.24	0.030
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.6		0.24	0.038
2058-94-8	Perfluoroundecanoic acid (PFUnA)	3.8		0.24	0.034
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.3		0.24	0.064
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.4	0.073
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.15	J	2.4	0.047
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.084	J	0.24	0.026

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-329 (0.5-1.5) Lab Sample ID: 480-222067-90

Matrix: Solid Lab File ID: PB240805A19.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 09:00

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.05(g) Date Analyzed: 08/05/2024 14:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.0 % Solids: 85.0 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.087
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.087
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.033
375-22-4	Perfluorobutanoic acid (PFBA)	1.2		0.58	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	J	0.23	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	0.24	✗ J	0.23	0.034
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.24		0.23	0.035
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.34		0.23	0.040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.31		0.23	0.040
375-95-1	Perfluorononanoic acid (PFNA)	0.35		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.037
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	6.3		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.37		0.23	0.043
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.086	✗ ✗ J	0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.4		0.23	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	4.3		0.23	0.034
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.8		0.23	0.063
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.3	0.072
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.12	J	2.3	0.047
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.087	J	0.23	0.026

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Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-329 (1.5-2) | Lab Sample ID: 480-222067-91

Matrix: Solid | Lab File ID: PB240805A21.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 09:02

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.04(g) | Date Analyzed: 08/05/2024 14:53

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 36.6 % Solids: 63.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.1	0.12
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.1	0.12
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.31	0.044
375-22-4	Perfluorobutanoic acid (PFBA)	1.9		0.78	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	0.31		0.31	0.045
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.31	0.045
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.31	0.038
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.36		0.31	0.047
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.40		0.31	0.053
307-24-4	Perfluorohexanoic acid (PFHxA)	0.59		0.31	0.053
375-95-1	Perfluorononanoic acid (PFNA)	0.48		0.31	0.042
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.31	0.050
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	13		0.31	0.15
335-67-1	Perfluorooctanoic acid (PFOA)	0.39		0.31	0.058
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.056	J	0.31	0.039
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.0		0.31	0.050
2058-94-8	Perfluoroundecanoic acid (PFUnA)	7.5		0.31	0.045
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.8		0.31	0.084
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.1	0.097
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.064	J	3.1	0.063
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.087	J	0.31	0.034

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-330 (0-0.5) Lab Sample ID: 480-222067-92

Matrix: Solid Lab File ID: PB240805A22.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 09:05

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.01(g) Date Analyzed: 08/05/2024 15:01

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 18.5 % Solids: 81.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.092
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.092
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.034
375-22-4	Perfluorobutanoic acid (PFBA)	0.77		0.61	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	0.27		0.24	0.036
307-55-1	Perfluorododecanoic acid (PFDoA)	0.13	J	0.24	0.036
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.24	0.029
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.29		0.24	0.037
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	J	0.24	0.042
307-24-4	Perfluorohexanoic acid (PFHxA)	0.32		0.24	0.042
375-95-1	Perfluorononanoic acid (PFNA)	0.51		0.24	0.033
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.039
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.6		0.24	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.46		0.24	0.045
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.049	J	0.24	0.031
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.47		0.24	0.039
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.72		0.24	0.036
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.3		0.24	0.066
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.4	0.076
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.17	J	2.4	0.049
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.027

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

93

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-330 (0.5-1.5) | Lab Sample ID: 480-222067-93

Matrix: Solid | Lab File ID: PB240805A23.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 09:08

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.11(g) | Date Analyzed: 08/05/2024 15:09

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 14.7 % Solids: 85.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.086
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.086
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	0.87		0.57	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	0.27		0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	0.13	J	0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.30		0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.21	J	0.23	0.039
307-24-4	Perfluorohexanoic acid (PFHxA)	0.38		0.23	0.039
375-95-1	Perfluorononanoic acid (PFNA)	0.58		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.037
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	4.0		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.51		0.23	0.042
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.049	J	0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.57		0.23	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.71		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.5		0.23	0.062
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.3	0.071
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.17	J	2.3	0.046
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

94

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-330 (1.5-3) Lab Sample ID: 480-222067-94

Matrix: Solid Lab File ID: PB240805A24.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 09:10

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.01(g) Date Analyzed: 08/05/2024 15:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.2 % Solids: 84.8 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.088
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.033
375-22-4	Perfluorobutanoic acid (PFBA)	0.84		0.59	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	0.28		0.24	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	0.12	J	0.24	0.034
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.24	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.29		0.24	0.035
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	J	0.24	0.040
307-24-4	Perfluorohexanoic acid (PFHxA)	0.34		0.24	0.040
375-95-1	Perfluorononanoic acid (PFNA)	0.55		0.24	0.032
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.038
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.7		0.24	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.53		0.24	0.044
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.071	J	0.24	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.43		0.24	0.038
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.74		0.24	0.034
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.5		0.24	0.064
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.4	0.073
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.095	J	2.4	0.047
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.026

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-331 (0-0.5) Lab Sample ID: 480-222067-95

Matrix: Solid Lab File ID: PB240805A25.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 09:20

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.20(g) Date Analyzed: 08/05/2024 15:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 77.3 % Solids: 22.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		8.5	0.32
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		8.5	0.32
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.85	0.12
375-22-4	Perfluorobutanoic acid (PFBA)	0.80	J	2.1	0.76
335-76-2	Perfluorodecanoic acid (PFDA)	3.9		0.85	0.12
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.85	0.12
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.35	J	0.85	0.10
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.5		0.85	0.13
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.8		0.85	0.14
307-24-4	Perfluorohexanoic acid (PFHxA)	1.9		0.85	0.14
375-95-1	Perfluorononanoic acid (PFNA)	4.1		0.85	0.11
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.9		0.85	0.14
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	130		0.85	0.39
335-67-1	Perfluorooctanoic acid (PFOA)	2.6		0.85	0.16
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.40	J	0.85	0.11
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.85	0.14
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.85	0.12
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.2		0.85	0.23
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.76	J	8.5	0.26
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	17		8.5	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.26	J	0.85	0.093

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PFAS ORGANICS ANALYSIS DATA SHEET

96

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-332 (0-0.5) | Lab Sample ID: 480-222067-96

Matrix: Solid | Lab File ID: PB240805A26.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 09:15

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.05(g) | Date Analyzed: 08/05/2024 15:33

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 32.8 % Solids: 67.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.9	0.11
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.9	0.11
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.29	0.041
375-22-4	Perfluorobutanoic acid (PFBA)	0.77		0.74	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.32		0.29	0.043
307-55-1	Perfluorododecanoic acid (PFDoA)	0.070	J	0.29	0.043
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.29	0.035
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.58		0.29	0.044
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.65		0.29	0.050
307-24-4	Perfluorohexanoic acid (PFHxA)	0.76		0.29	0.050
375-95-1	Perfluorononanoic acid (PFNA)	0.79		0.29	0.040
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.29	0.047
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	16	X J	0.29	0.14
335-67-1	Perfluorooctanoic acid (PFOA)	0.63		0.29	0.055
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.29	0.037
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.23	J	0.29	0.047
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.29	0.043
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.9		0.29	0.080
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.9	0.091
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.065	J	2.9	0.059
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.29	0.032

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

97

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-333 (0-0.5) | Lab Sample ID: 480-222067-97

Matrix: Solid | Lab File ID: PB240805A27.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 09:55

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.20(g) | Date Analyzed: 08/05/2024 15:41

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.8 % Solids: 94.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.029	J	0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.26		0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.32		0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.29		0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.48		0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.9		0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	0.19	J	0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.38		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.23	J	2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.17	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

98

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-333 (0.5-1.5) | Lab Sample ID: 480-222067-98

Matrix: Solid | Lab File ID: PB240805A28.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 09:59

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.03(g) | Date Analyzed: 08/05/2024 15:49

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 | Units: ug/Kg

Preparation Batch No.: 207059 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.080
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.080
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.031	J	0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27		0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.41		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.28		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.58		0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.4		0.21	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.27		0.21	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.42		0.21	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.26	J	2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.18	J	2.1	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

99

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-333 (1.5-3) Lab Sample ID: 480-222067-99

Matrix: Solid Lab File ID: PB240805A29.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:05

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.23(g) Date Analyzed: 08/05/2024 15:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 14.7 % Solids: 85.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.084
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.084
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.060	J	0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	0.25	J	0.56	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.15	J	0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.45		0.22	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.4		0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.57		0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.86		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.6		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.78		0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.77		0.22	0.061
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.48	J	2.2	0.069
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.081	J	2.2	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

100

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-334 (0-0.5) Lab Sample ID: 480-222067-100

Matrix: Solid Lab File ID: PB240805A30.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:15

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:21

Sample wt/vol: 5.12(g) Date Analyzed: 08/05/2024 16:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.9 % Solids: 90.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207158 Units: ug/Kg

Preparation Batch No.: 207059 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.081
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.081
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	J	0.22	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.083	J	0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.12	J	0.22	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	0.058	J	0.22	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.070	J	0.22	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.97		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.089	J	0.22	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.064	J	0.22	0.059
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.077	J	2.2	0.067
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.068	J	2.2	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

101

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-334 (0.5-1.5) Lab Sample ID: 480-222067-101

Matrix: Solid Lab File ID: PB240805B04.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:17

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.07(g) Date Analyzed: 08/05/2024 18:48

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.7 % Solids: 96.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.030	J	0.20	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.051	J	0.20	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.085	J	0.20	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.20	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.051	J	0.20	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.48		0.20	0.095
335-67-1	Perfluorooctanoic acid (PFOA)	0.071	J	0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.20	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.20	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.059	J	0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.074	J	2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.047	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

102

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-334 (1.5-4) | Lab Sample ID: 480-222067-102

Matrix: Solid | Lab File ID: PB240805B05.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:20

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.11(g) | Date Analyzed: 08/05/2024 18:56

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 20.8 % Solids: 79.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.5	0.093
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.5	0.093
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.25	0.035
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.62	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.25	0.036
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.25	0.036
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.25	0.030
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.073	J	0.25	0.037
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.54		0.25	0.042
307-24-4	Perfluorohexanoic acid (PFHxA)	0.088	J	0.25	0.042
375-95-1	Perfluorononanoic acid (PFNA)	0.094	~~J~~ J	0.25	0.033
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.25	0.040
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.25	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.22	J	0.25	0.046
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.25	0.031
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.25	0.040
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.25	0.036
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.11	J	0.25	0.067
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.39	J	2.5	0.077
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.5	0.049
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.25	0.027

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

103

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-335 (0-0.5) | Lab Sample ID: 480-222067-103

Matrix: Solid | Lab File ID: PB240805B06.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:22

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.16(g) | Date Analyzed: 08/05/2024 19:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.5 % Solids: 93.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.035	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.036	~~J~~ I J	0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.043	J	0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.35		0.21	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.056	~~J~~ I J	0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.1	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

104

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-335 (0.5-1.5) | Lab Sample ID: 480-222067-104

Matrix: Solid | Lab File ID: PB240805B07.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:24

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.01(g) | Date Analyzed: 08/05/2024 19:12

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.7 % Solids: 90.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.083
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.083
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.55	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.045	J	0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.039	J	0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.035
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.37		0.22	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.035
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.039	J	0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.2	0.068
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.2	0.044
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

105

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-335 (1.5-4) | Lab Sample ID: 480-222067-105

Matrix: Solid | Lab File ID: PB240805B08.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:26

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.10(g) | Date Analyzed: 08/05/2024 19:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 16.9 % Solids: 83.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.4	0.089
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.4	0.089
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.24	0.033
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.59	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.24	0.034
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.24	0.034
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.24	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.24	0.035
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.063	J J J	0.24	0.040
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.24	0.040
375-95-1	Perfluorononanoic acid (PFNA)	0.051	J	0.24	0.032
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.24	0.038
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.58	J J	0.24	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.24	0.044
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.24	0.030
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.24	0.038
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.24	0.034
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.24	0.064
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.4	0.073
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.4	0.047
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.24	0.026

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

106

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-336 (0-0.5) | Lab Sample ID: 480-222067-106

Matrix: Solid | Lab File ID: PB240805B09.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:30

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.10(g) | Date Analyzed: 08/05/2024 19:28

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.7 % Solids: 93.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.16	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.21		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.15	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.36		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.12	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.086	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	UJ	0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.4		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.14	J	0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.057	J	0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.068	J	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.30		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.13	J	0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.20	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.027	J	0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

106

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-336 (0-0.5) | Lab Sample ID: 480-222067-106

Matrix: Solid | Lab File ID: PB240805B09.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:30

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.10(g) | Date Analyzed: 08/05/2024 19:28

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 6.7 % Solids: 93.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	102		50-150
STL02280	M2-8:2 FTS	115		50-150
STL00996	13C2 PFDA	94		50-150
STL00998	13C2 PFDoA	81		50-150
STL00993	13C2 PFHxA	95		50-150
STL02116	13C2 PFTeDA	56		50-150
STL00997	13C2 PFUnA	91		50-150
STL00992	13C4 PFBA	87		50-150
STL01892	13C4 PFHpA	94		50-150
STL00990	13C4 PFOA	93		50-150
STL00995	13C5 PFNA	93		50-150
STL01893	13C5 PFPeA	84		50-150
STL01056	13C8 FOSA	45	*5	50-150
STL00994	18O2 PFHxS	82		50-150
STL02118	d3-NMeFOSAA	95		50-150
STL02117	d5-NEtFOSAA	92		50-150
STL00991	13C4 PFOS	84		50-150
STL02337	13C3 PFBS	79		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

107

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-336 (0.5-1.5) | Lab Sample ID: 480-222067-107

Matrix: Solid | Lab File ID: PB240805B10.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:32

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.01(g) | Date Analyzed: 08/05/2024 19:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.1 % Solids: 92.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.081
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.081
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	J	0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	J	0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.14	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.29		0.21	0.037
307-24-4	Perfluorohexanoic acid (PFHxA)	0.11	J	0.21	0.037
375-95-1	Perfluorononanoic acid (PFNA)	0.063	J	0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.1		0.21	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.078	J	0.21	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.045	J	0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.057	J	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.27		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.12	J	0.21	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.067
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.22	J	2.1	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

108

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-336 (1.5-4) | Lab Sample ID: 480-222067-108

Matrix: Solid | Lab File ID: PB240805B11.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:34

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.25(g) | Date Analyzed: 08/05/2024 19:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.080
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.080
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.54	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.036	J	0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.50		0.21	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND	UJ	0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND	UJ	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.047	J	2.1	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

108

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-336 (1.5-4) | Lab Sample ID: 480-222067-108

Matrix: Solid | Lab File ID: PB240805B11.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:34

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.25(g) | Date Analyzed: 08/05/2024 19:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 11.1 % Solids: 88.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02279	M2-6:2 FTS	80		50-150
STL02280	M2-8:2 FTS	80		50-150
STL00996	13C2 PFDA	85		50-150
STL00998	13C2 PFDoA	79		50-150
STL00993	13C2 PFHxA	91		50-150
STL02116	13C2 PFTeDA	43	~~*~~	50-150
STL00997	13C2 PFUnA	83		50-150
STL00992	13C4 PFBA	84		50-150
STL01892	13C4 PFHpA	86		50-150
STL00990	13C4 PFOA	87		50-150
STL00995	13C5 PFNA	87		50-150
STL01893	13C5 PFPeA	81		50-150
STL01056	13C8 FOSA	59		50-150
STL00994	18O2 PFHxS	72		50-150
STL02118	d3-NMeFOSAA	83		50-150
STL02117	d5-NEtFOSAA	92		50-150
STL00991	13C4 PFOS	72		50-150
STL02337	13C3 PFBS	71		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

109

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (0-0.5) | Lab Sample ID: 480-222067-109

Matrix: Solid | Lab File ID: PB240805B12.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:36

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.21(g) | Date Analyzed: 08/05/2024 19:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.4 % Solids: 94.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.076
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.076
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.15	J	0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.18	J	0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20		0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.72		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.17	J	0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.9		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	0.30		0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	0.088	J	0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.22		0.20	0.032
335-67-1	Perfluorooctanoic acid (PFOA)	0.47		0.20	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.11	J	0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.18	J	0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.69		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.16	J	0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.16	J	2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.29	J	2.0	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.13	J	0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

109

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (0-0.5) DL Lab Sample ID: 480-222067-109 DL

Matrix: Solid Lab File ID: PB240805B28.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:36

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.21(g) Date Analyzed: 08/05/2024 22:02

Con. Extract Vol.: 10(mL) Dilution Factor: 2

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.4 % Solids: 94.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	56		0.41	0.19

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	80		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

110

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (0.5-1.5) Lab Sample ID: 480-222067-110

Matrix: Solid Lab File ID: PB240805B13.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:38

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.03(g) Date Analyzed: 08/05/2024 20:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.7 % Solids: 95.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.27		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.17	J	0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.87		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.6		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.69		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.098	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.22		0.21	0.033
335-67-1	Perfluorooctanoic acid (PFOA)	0.53		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.10	J	0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.12	J	0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.52		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.27		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.21	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.41	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.097	J	0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

110

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (0.5-1.5) DL Lab Sample ID: 480-222067-110 DL

Matrix: Solid Lab File ID: PB240805B30.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:38

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.03(g) Date Analyzed: 08/05/2024 22:18

Con. Extract Vol.: 10(mL) Dilution Factor: 5

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.7 % Solids: 95.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	70		1.0	0.48

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	81		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

111

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (1.5-4) | Lab Sample ID: 480-222067-111

Matrix: Solid | Lab File ID: PB240805B15.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:40

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.04(g) | Date Analyzed: 08/05/2024 20:16

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.4 % Solids: 87.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.085
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.085
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.035	J	0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.57	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.12	J	0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.085	J	0.23	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.59		0.23	0.039
307-24-4	Perfluorohexanoic acid (PFHxA)	0.043	J	0.23	0.039
375-95-1	Perfluorononanoic acid (PFNA)	0.061	J	0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	34		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.064	J	0.23	0.042
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.23	0.061
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.3	0.070
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.12	J	2.3	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

112

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (0-0.5) | Lab Sample ID: 480-222067-112

Matrix: Solid | Lab File ID: PB240805B16.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:42

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.03(g) | Date Analyzed: 08/05/2024 20:25

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.7 % Solids: 94.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	0.21	J	0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.46		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	0.41		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.38		0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.22		0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.32		0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.26		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.1		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.28		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.44		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.14	J	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.21		0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.45		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.2	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	4.6		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

113

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (0.5-1.5) Lab Sample ID: 480-222067-113

Matrix: Solid Lab File ID: PB240805B17.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:44

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.12(g) Date Analyzed: 08/05/2024 20:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 7.4 % Solids: 92.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.079
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.079
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	0.19	J	0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.36		0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	0.18	J	0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.22		0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	J	0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.35		0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	11		0.21	0.098
335-67-1	Perfluorooctanoic acid (PFOA)	0.23		0.21	0.039
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.15	J	0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.055	J	0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.081	J	0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.30		0.21	0.057
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.74	J	2.1	0.065
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.9	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

114

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (1.5-4) Lab Sample ID: 480-222067-114

Matrix: Solid Lab File ID: PB240805B18.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:46

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.13(g) Date Analyzed: 08/05/2024 20:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 13.5 % Solids: 86.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.085
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.085
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	0.35	J	0.56	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.30		0.23	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.46		0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.32		0.23	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.35		0.23	0.038
375-95-1	Perfluorononanoic acid (PFNA)	2.1		0.23	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.8	J	0.23	0.10
335-67-1	Perfluorooctanoic acid (PFOA)	0.49		0.23	0.042
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.71		0.23	0.061
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.57	J	2.3	0.070
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		2.3	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

115

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-339 (0-0.5) | Lab Sample ID: 480-222067-115

Matrix: Solid | Lab File ID: PB240805B19.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 12:05

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.02(g) | Date Analyzed: 08/05/2024 20:49

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.2 % Solids: 95.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.15	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.15	J	0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.054	J	0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.056	J	0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.044	J	0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.061	~~J~~ J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.44		0.21	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.18	J	0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.55		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.066	J	0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.71	J	2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

116

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-339 (0.5-1.5) Lab Sample ID: 480-222067-116

Matrix: Solid Lab File ID: PB240805B20.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 12:10

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.06(g) Date Analyzed: 08/05/2024 20:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 4.3 % Solids: 95.7 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.077
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.077
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.059	J	0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.038	J	0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.043	J	0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.048	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.72		0.21	0.096
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.10	J	0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.43		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.50	J	2.1	0.041
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

117

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-339 (1.5-2.5) Lab Sample ID: 480-222067-117

Matrix: Solid Lab File ID: PB240805B21.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 12:15

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.16(g) Date Analyzed: 08/05/2024 21:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 9.4 % Solids: 90.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.080
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.080
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.030
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.53	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.036	J	0.21	0.031
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.031
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.026
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.064	J	0.21	0.032
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.17	J	0.21	0.036
307-24-4	Perfluorohexanoic acid (PFHxA)	0.041	~~J~~ I J	0.21	0.036
375-95-1	Perfluorononanoic acid (PFNA)	0.26		0.21	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.034
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	9.1		0.21	0.099
335-67-1	Perfluorooctanoic acid (PFOA)	0.073	J	0.21	0.040
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.21	0.027
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.21	0.034
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.097	~~J~~ I J	0.21	0.031
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.21	0.058
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		2.1	0.066
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.10	J	2.1	0.043
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.024

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

118

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-340 (0-0.5) Lab Sample ID: 480-222067-118

Matrix: Solid Lab File ID: PB240805B22.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 10:50

Extraction Method: SHAKE Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.13(g) Date Analyzed: 08/05/2024 21:13

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 3.5 % Solids: 96.5 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 Units: ug/Kg

Preparation Batch No.: 207060 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.076
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.076
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.028
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.51	0.18
335-76-2	Perfluorodecanoic acid (PFDA)	0.11	J	0.20	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	0.16	J	0.20	0.029
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.053	J	0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.33		0.20	0.030
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.45		0.20	0.034
307-24-4	Perfluorohexanoic acid (PFHxA)	0.26		0.20	0.034
375-95-1	Perfluorononanoic acid (PFNA)	0.14	J	0.20	0.027
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.032
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	6.2		0.20	0.094
335-67-1	Perfluorooctanoic acid (PFOA)	0.30		0.20	0.037
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.13	J	0.20	0.025
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.46		0.20	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.40		0.20	0.029
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.26		0.20	0.055
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.4	J	2.0	0.063
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	5.5		2.0	0.040
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.022	J	0.20	0.022

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

119

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-340 (0.5-1.5) | Lab Sample ID: 480-222067-119

Matrix: Solid | Lab File ID: PB240805B23.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:52

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.08(g) | Date Analyzed: 08/05/2024 21:21

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 5.3 % Solids: 94.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.1	0.078
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.1	0.078
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.029
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.52	0.19
335-76-2	Perfluorodecanoic acid (PFDA)	0.17	J	0.21	0.030
307-55-1	Perfluorododecanoic acid (PFDoA)	0.26		0.21	0.030
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.079	J	0.21	0.025
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.45		0.21	0.031
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.51		0.21	0.035
307-24-4	Perfluorohexanoic acid (PFHxA)	0.33		0.21	0.035
375-95-1	Perfluorononanoic acid (PFNA)	0.18	J	0.21	0.028
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.045	J	0.21	0.033
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	6.7		0.21	0.097
335-67-1	Perfluorooctanoic acid (PFOA)	0.33		0.21	0.038
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.15	J	0.21	0.026
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.78		0.21	0.033
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.95		0.21	0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.35		0.21	0.056
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.9	J	2.1	0.064
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.5		2.1	0.042
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.032	J	0.21	0.023

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

120

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-340 (1.5-4) | Lab Sample ID: 480-222067-120

Matrix: Solid | Lab File ID: PB240805B24.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:54

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.12(g) | Date Analyzed: 08/05/2024 21:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.4 % Solids: 87.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.084
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.084
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.031
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.56	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	1.1		0.22	0.032
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.032
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.044	J	0.22	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.32		0.22	0.033
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.42		0.22	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.19	J	0.22	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.30		0.22	0.030
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.036
335-67-1	Perfluorooctanoic acid (PFOA)	0.34		0.22	0.041
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.22	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.22	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.032
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.15	J	0.22	0.060
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.48	J	2.2	0.069
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	8.9	J	2.2	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

120

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-340 (1.5-4) DL | Lab Sample ID: 480-222067-120 DL

Matrix: Solid | Lab File ID: PB240805B32.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 10:54

Extraction Method: SHAKE | Date Extracted: 08/01/2024 07:23

Sample wt/vol: 5.12(g) | Date Analyzed: 08/05/2024 22:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 2

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.4 % Solids: 87.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207161 | Units: ug/Kg

Preparation Batch No.: 207060 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	58	~~FZ~~ J	0.45	0.21

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	73		50-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

121

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-05 Lab Sample ID: 480-222067-121

Matrix: Solid Lab File ID: PB240807A28.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 12:00

Extraction Method: SHAKE Date Extracted: 08/05/2024 09:06

Sample wt/vol: 5.19(g) Date Analyzed: 08/07/2024 16:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 35.8 % Solids: 64.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207292 Units: ug/Kg

Preparation Batch No.: 207162 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.0	0.11
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.0	0.11
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.12	J	0.30	0.042
375-22-4	Perfluorobutanoic acid (PFBA)	0.50	J	0.75	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	1.9		0.30	0.044
307-55-1	Perfluorododecanoic acid (PFDoA)	1.3		0.30	0.044
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.4		0.30	0.036
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.4		0.30	0.045
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	8.0		0.30	0.051
307-24-4	Perfluorohexanoic acid (PFHxA)	1.9		0.30	0.051
375-95-1	Perfluorononanoic acid (PFNA)	7.6		0.30	0.041
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.71		0.30	0.048
335-67-1	Perfluorooctanoic acid (PFOA)	5.2		0.30	0.056
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.41		0.30	0.038
72629-94-8	Perfluorotridecanoic acid (PFTriA)	7.8		0.30	0.048
2058-94-8	Perfluoroundecanoic acid (PFUnA)	32		0.30	0.044
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.7		0.30	0.081
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.3	J	3.0	0.093
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.4	J	3.0	0.060
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.60		0.30	0.033

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-05 DL Lab Sample ID: 480-222067-121 DL

Matrix: Solid Lab File ID: PB240807A12.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 12:00

Extraction Method: SHAKE Date Extracted: 08/05/2024 09:06

Sample wt/vol: 5.19(g) Date Analyzed: 08/07/2024 14:41

Con. Extract Vol.: 10(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 35.8 % Solids: 64.2 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207292 Units: ug/Kg

Preparation Batch No.: 207162 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	190		3.0	1.4

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	74		50-150

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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-DUP-06 Lab Sample ID: 480-222067-122

Matrix: Solid Lab File ID: PB240807A30.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 13:00

Extraction Method: SHAKE Date Extracted: 08/05/2024 09:06

Sample wt/vol: 5.24(g) Date Analyzed: 08/07/2024 17:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 16.7 % Solids: 83.3 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207292 Units: ug/Kg

Preparation Batch No.: 207162 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.086
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.086
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.57	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	0.62		0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.090	J	0.23	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.29		0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.39		0.23	0.039
307-24-4	Perfluorohexanoic acid (PFHxA)	0.17	J	0.23	0.039
375-95-1	Perfluorononanoic acid (PFNA)	0.42		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.037
335-67-1	Perfluorooctanoic acid (PFOA)	0.27		0.23	0.042
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.029
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.23	0.037
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	J	0.23	0.062
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.20	J	2.3	0.071
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.1	~~J~~ J	2.3	0.046
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-DUP-06 DL | Lab Sample ID: 480-222067-122 DL

Matrix: Solid | Lab File ID: PB240807A13.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/24/2024 13:00

Extraction Method: SHAKE | Date Extracted: 08/05/2024 09:06

Sample wt/vol: 5.24(g) | Date Analyzed: 08/07/2024 14:49

Con. Extract Vol.: 10(mL) | Dilution Factor: 10

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 16.7 % Solids: 83.3 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207292 | Units: ug/Kg

Preparation Batch No.: 207162 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	110	J	2.3	1.1

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	73		50-150

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FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-EB-02 Lab Sample ID: 480-222067-123

Matrix: Water Lab File ID: PB240801C24.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/24/2024 12:30

Extraction Method: 3535 Date Extracted: 07/31/2024 13:51

Sample wt/vol: 278.3(mL) Date Analyzed: 08/02/2024 06:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207090 Units: ng/L

Preparation Batch No.: 207030 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	1.4
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	1.5
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.46
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.5	1.1
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.33
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.39
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.16
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.33
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.35
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.66
375-95-1	Perfluorononanoic acid (PFNA)	0.31	J J	1.8	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.37
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.1		1.8	0.45
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.27
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.24
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	0.44
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.5	1.6
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		1.8	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.31

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-EB-01 Lab Sample ID: 480-222067-124

Matrix: Water Lab File ID: PB240801C25.d

Analysis Method: BR-LC-009 r8 Date Collected: 07/23/2024 15:45

Extraction Method: 3535 Date Extracted: 07/31/2024 13:51

Sample wt/vol: 273.6(mL) Date Analyzed: 08/02/2024 06:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207090 Units: ng/L

Preparation Batch No.: 207030 Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	1.5
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	1.6
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.47
375-22-4	Perfluorobutanoic acid (PFBA)	1.2	J	4.6	1.1
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.34
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.39
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.16
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.34
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.36
307-24-4	Perfluorohexanoic acid (PFHxA)	0.97	J	1.8	0.67
375-95-1	Perfluorononanoic acid (PFNA)	0.20	J	1.8	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.37
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.8	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	0.47	J	1.8	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.27
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.25
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.79	J	1.8	0.45
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.4		4.6	1.6
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.7		1.8	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.31

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Burlington | Job No.: 480-222067-1

SDG No.:

Client Sample ID: DCFTC-SB-319 (1.5-4) | Lab Sample ID: 480-222067-125

Matrix: Solid | Lab File ID: PB240801B25.d

Analysis Method: BR-LC-009 r8 | Date Collected: 07/23/2024 13:40

Extraction Method: SHAKE | Date Extracted: 07/29/2024 10:44

Sample wt/vol: 5.05(g) | Date Analyzed: 08/02/2024 00:17

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: C-18 ID: 4.6(mm)

% Moisture: 12.5 % Solids: 87.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 207089 | Units: ug/Kg

Preparation Batch No.: 206920 | Instrument ID: 305

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.3	0.085
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.3	0.085
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.051	J	0.23	0.032
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.57	0.20
335-76-2	Perfluorodecanoic acid (PFDA)	0.91		0.23	0.033
307-55-1	Perfluorododecanoic acid (PFDoA)	0.066	J	0.23	0.033
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.21	J	0.23	0.027
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.35		0.23	0.034
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.6		0.23	0.038
307-24-4	Perfluorohexanoic acid (PFHxA)	0.31		0.23	0.038
375-95-1	Perfluorononanoic acid (PFNA)	0.95		0.23	0.031
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.43		0.23	0.036
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	24		0.23	0.11
335-67-1	Perfluorooctanoic acid (PFOA)	0.56		0.23	0.042
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.23	0.028
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.12	J	0.23	0.036
2058-94-8	Perfluoroundecanoic acid (PFUnA)	4.6		0.23	0.033
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.40		0.23	0.061
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.0		2.3	0.070
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.8		2.3	0.045
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.025

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-222079-1
Laboratory: Eurofins, Buffalo, New York, Cleveland, Ohio
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: November 9, 2024

TCLP + SPLP PFAS			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-SB-301 (0-0.5)	480-222079-1	Soil
2	DCFTC-SB-312 (1.5-4)	480-222079-2	Soil
3	DCFTC-SB-315 (0.5-1.5)	480-222079-3	Soil
4	DCFTC-SB-321 (1.5-4)	480-222079-4	Soil
5	DCFTC-SB-323 (0-0.5)	480-222079-5	Soil
6	DCFTC-SB-322 (0-0.5)	480-222079-6	Soil
7	DCFTC-SB-324 (0.5-1.5)	480-222079-7	Soil
8	DCFTC-SB-337 (1.5-4)	480-222079-8	Soil
9	DCFTC-SB-338 (1.5-4)	480-222079-9	Soil
10	DCFTC-SB-339 0.5-1.5)	480-222079-10	Soil

A Data Usability Summary Review was performed on the analytical data for ten soil samples collected on July 23-24, 2024 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Environmental Samples by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS (TCLP + SPLP)	USEPA Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the New York State Department of Environmental Conservation (NYSDEC) Data Review Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All holding time criteria were met.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- Several surrogates in various samples recovered above QC limits, however, the associated compounds were non-detect or previously qualified for ion ratio deficiencies. No further action was required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples (LCS)

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples exhibited compounds with an ion ratio outside of QC limits and were flagged (I) by the laboratory and further qualified as estimated (J) by the reviewer.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/13/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (0-0.5) | Lab Sample ID: 480-222079-1

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples44.d

Analysis Method: 1633 | Date Collected: 07/23/2024 08:00

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 131.7(mL) | Date Analyzed: 08/03/2024 22:07

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		3.8	0.95
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.9	0.57
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.9	0.47
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.48
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.9	0.51
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.47
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.47
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.47
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.47
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.59	J	1.9	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.47
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.47
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.8	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.8	0.98
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.8	0.95
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.64

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (0-0.5) | Lab Sample ID: 480-222079-1

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples44.d

Analysis Method: 1633 | Date Collected: 07/23/2024 08:00

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 131.7(mL) | Date Analyzed: 08/03/2024 22:07

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.47
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.5	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.5	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.44
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.47
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.47
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.47
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.47
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.47
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.8	0.95
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.5	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.5	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.47

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (0-0.5) Lab Sample ID: 480-222079-1

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples44.d

Analysis Method: 1633 Date Collected: 07/23/2024 08:00

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 131.7(mL) Date Analyzed: 08/03/2024 22:07

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	108		5-130
STL01893	13C5 PFPeA	115		40-130
STL02577	13C5 PFHxA	109		40-130
STL01892	13C4 PFHpA	105		40-130
STL01052	13C8 PFOA	118		40-130
STL02578	13C9 PFNA	106		40-130
STL02579	13C6 PFDA	99.3		40-130
STL02580	13C7 PFUnA	86.9		30-130
STL02116	13C2 PFTeDA	88.6		10-130
STL02337	13C3 PFBS	113		40-135
STL02581	13C3 PFHxS	112		40-130
STL01054	13C8 PFOS	108		40-130
STL01056	13C8 PFOSA	95.2		40-130
STL02118	d3-NMeFOSAA	97.0		40-170
STL02117	d5-NEtFOSAA	152	~~*5~~	25-135
STL02395	M2-4:2 FTS	109		40-200
STL02279	M2-6:2 FTS	102		40-200
STL02280	M2-8:2 FTS	104		40-300
STL02255	13C3 HFPO-DA	105		40-130
STL02277	d7-N-MeFOSE-M	59.2		10-130
STL02278	d9-N-EtFOSE-M	57.3		10-130
STL02704	d5-NEtPFOSA	61.9		10-130
STL02705	D3-NMeFOSA	64.0		10-130
STL02703	13C2-PFDoDA	89.2		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1 SPLP

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (0-0.5) | Lab Sample ID: 480-222079-1

Matrix: Solid (SPLP East) | Lab File ID: ICAL_client_samples28.d

Analysis Method: 1633 | Date Collected: 07/23/2024 08:00

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 133.6(mL) | Date Analyzed: 08/03/2024 17:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		3.7	0.94
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.9	0.56
307-24-4	Perfluorohexanoic acid (PFHxA)	0.53	J	1.9	0.47
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.48
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.9	0.51
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.47
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.47
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.47
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.47
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.47
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.47
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.7	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.7	0.96
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.7	0.94
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.63

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1 SPLP

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-301 (0-0.5) | Lab Sample ID: 480-222079-1

Matrix: Solid (SPLP East) | Lab File ID: ICAL_client_samples28.d

Analysis Method: 1633 | Date Collected: 07/23/2024 08:00

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 133.6(mL) | Date Analyzed: 08/03/2024 17:42

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.47
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.4	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.4	2.3
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.43
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.47
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.47
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.47
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.47
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.47
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.7	0.94
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.4	2.3
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.4	2.3
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.47

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (1.5-4`) | Lab Sample ID: 480-222079-2

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples45.d

Analysis Method: 1633 | Date Collected: 07/23/2024 11:47

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.6(mL) | Date Analyzed: 08/03/2024 22:24

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		3.9	0.97
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.9	0.58
307-24-4	Perfluorohexanoic acid (PFHxA)	0.76	J	1.9	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.88	J	1.9	0.50
335-67-1	Perfluorooctanoic acid (PFOA)	0.89	J	1.9	0.52
375-95-1	Perfluorononanoic acid (PFNA)	0.61	J	1.9	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.49
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.49
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.49
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.49
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.49
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.51	J	1.9	0.49
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.49
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.49
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.49
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.49
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.9	1.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.9	0.97
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.49
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.49
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.65

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (1.5-4`) Lab Sample ID: 480-222079-2

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples45.d

Analysis Method: 1633 Date Collected: 07/23/2024 11:47

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.6(mL) Date Analyzed: 08/03/2024 22:24

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.49
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.7	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.7	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.45
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.49
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.49
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.49
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.49
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.49
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.49
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.9	0.97
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.7	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.7	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.49
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.49

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (1.5-4`) Lab Sample ID: 480-222079-2

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples45.d

Analysis Method: 1633 Date Collected: 07/23/2024 11:47

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.6(mL) Date Analyzed: 08/03/2024 22:24

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	99.4		5-130
STL01893	13C5 PFPeA	104		40-130
STL02577	13C5 PFHxA	101		40-130
STL01892	13C4 PFHpA	98.0		40-130
STL01052	13C8 PFOA	107		40-130
STL02578	13C9 PFNA	100		40-130
STL02579	13C6 PFDA	90.1		40-130
STL02580	13C7 PFUnA	86.5		30-130
STL02116	13C2 PFTeDA	92.4		10-130
STL02337	13C3 PFBS	109		40-135
STL02581	13C3 PFHxS	104		40-130
STL01054	13C8 PFOS	103		40-130
STL01056	13C8 PFOSA	90.2		40-130
STL02118	d3-NMeFOSAA	94.2		40-170
STL02117	d5-NEtFOSAA	167	~~*~~	25-135
STL02395	M2-4:2 FTS	105		40-200
STL02279	M2-6:2 FTS	99.6		40-200
STL02280	M2-8:2 FTS	102		40-300
STL02255	13C3 HFPO-DA	98.0		40-130
STL02277	d7-N-MeFOSE-M	64.7		10-130
STL02278	d9-N-EtFOSE-M	60.8		10-130
STL02704	d5-NEtPFOSA	67.0		10-130
STL02705	D3-NMeFOSA	68.6		10-130
STL02703	13C2-PFDoDA	91.0		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2
SPLP

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (1.5-4`) | Lab Sample ID: 480-222079-2

Matrix: Solid (SPLP East) | Lab File ID: ICAL_client_samples29.d

Analysis Method: 1633 | Date Collected: 07/23/2024 11:47

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 131.6(mL) | Date Analyzed: 08/03/2024 17:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		3.8	0.95
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.0	J	1.9	0.57
307-24-4	Perfluorohexanoic acid (PFHxA)	1.9		1.9	0.47
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.92	J	1.9	0.48
335-67-1	Perfluorooctanoic acid (PFOA)	1.3	J	1.9	0.51
375-95-1	Perfluorononanoic acid (PFNA)	0.75	J	1.9	0.47
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.47
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.47
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.47
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.52	J	1.9	0.47
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.47
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.8	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.8	0.98
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.8	0.95
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.64

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2
SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-312 (1.5-4`) Lab Sample ID: 480-222079-2

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples29.d

Analysis Method: 1633 Date Collected: 07/23/2024 11:47

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 131.6(mL) Date Analyzed: 08/03/2024 17:59

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.47
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.5	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.5	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.44
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.47
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.47
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.47
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.47
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.47
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.8	0.95
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.5	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.5	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.47

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (0.5-1.5) | Lab Sample ID: 480-222079-3

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples46.d

Analysis Method: 1633 | Date Collected: 07/23/2024 13:17

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 130.6(mL) | Date Analyzed: 08/03/2024 22:40

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	21		3.8	0.96
2706-90-3	Perfluoropentanoic acid (PFPeA)	40		1.9	0.57
307-24-4	Perfluorohexanoic acid (PFHxA)	21		1.9	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	16		1.9	0.49
335-67-1	Perfluorooctanoic acid (PFOA)	21		1.9	0.52
375-95-1	Perfluorononanoic acid (PFNA)	12		1.9	0.48
335-76-2	Perfluorodecanoic acid (PFDA)	14		1.9	0.48
2058-94-8	Perfluoroundecanoic acid (PFUnA)	3.8		1.9	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.48
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.48
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.48
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.1		1.9	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.3		1.9	0.48
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.48
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.48
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.8	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.5		3.8	0.99
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.3	J	3.8	0.96
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.48
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.48
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.64

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (0.5-1.5) | Lab Sample ID: 480-222079-3

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples46.d

Analysis Method: 1633 | Date Collected: 07/23/2024 13:17

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 130.6(mL) | Date Analyzed: 08/03/2024 22:40

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.48
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.6	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.6	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.44
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.48
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.48
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.48
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.48
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.48
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.48
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.8	0.96
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.6	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.6	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (0.5-1.5) | Lab Sample ID: 480-222079-3

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples46.d

Analysis Method: 1633 | Date Collected: 07/23/2024 13:17

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 130.6(mL) | Date Analyzed: 08/03/2024 22:40

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	102		5-130
STL01893	13C5 PFPeA	102		40-130
STL02577	13C5 PFHxA	101		40-130
STL01892	13C4 PFHpA	102		40-130
STL01052	13C8 PFOA	108		40-130
STL02578	13C9 PFNA	102		40-130
STL02579	13C6 PFDA	54.2		40-130
STL02580	13C7 PFUnA	70.5		30-130
STL02116	13C2 PFTeDA	87.2		10-130
STL02337	13C3 PFBS	111		40-135
STL02581	13C3 PFHxS	108		40-130
STL01054	13C8 PFOS	106		40-130
STL01056	13C8 PFOSA	93.0		40-130
STL02118	d3-NMeFOSAA	97.5		40-170
STL02117	d5-NEtFOSAA	183	*5+	25-135
STL02395	M2-4:2 FTS	105		40-200
STL02279	M2-6:2 FTS	96.8		40-200
STL02280	M2-8:2 FTS	110		40-300
STL02255	13C3 HFPO-DA	96.2		40-130
STL02277	d7-N-MeFOSE-M	60.9		10-130
STL02278	d9-N-EtFOSE-M	57.0		10-130
STL02704	d5-NEtPFOSA	68.6		10-130
STL02705	D3-NMeFOSA	70.7		10-130
STL02703	13C2-PFDoDA	93.0		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3
SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (0.5-1.5) Lab Sample ID: 480-222079-3

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples30.d

Analysis Method: 1633 Date Collected: 07/23/2024 13:17

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 133.9(mL) Date Analyzed: 08/03/2024 18:15

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	18		3.7	0.93
2706-90-3	Perfluoropentanoic acid (PFPeA)	33		1.9	0.56
307-24-4	Perfluorohexanoic acid (PFHxA)	20		1.9	0.47
375-85-9	Perfluoroheptanoic acid (PFHpA)	14		1.9	0.48
335-67-1	Perfluorooctanoic acid (PFOA)	18		1.9	0.50
375-95-1	Perfluorononanoic acid (PFNA)	12		1.9	0.47
335-76-2	Perfluorodecanoic acid (PFDA)	5.3		1.9	0.47
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.1	J	1.9	0.47
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.47
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.47
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.4		1.9	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.5		1.9	0.47
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.47
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.7	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	5.7		3.7	0.96
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.3	J	3.7	0.93
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.63

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3
SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (0.5-1.5) Lab Sample ID: 480-222079-3

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples30.d

Analysis Method: 1633 Date Collected: 07/23/2024 13:17

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 133.9(mL) Date Analyzed: 08/03/2024 18:15

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.47
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.3	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.3	2.3
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.43
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.47
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.47
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.47
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.47
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.47
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.7	0.93
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	3.1	JJ	9.3	2.3
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.3	2.3
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.47

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3
SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-315 (0.5-1.5) Lab Sample ID: 480-222079-3

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples30.d

Analysis Method: 1633 Date Collected: 07/23/2024 13:17

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 133.9(mL) Date Analyzed: 08/03/2024 18:15

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	89.0		5-130
STL01893	13C5 PFPeA	93.0		40-130
STL02577	13C5 PFHxA	89.2		40-130
STL01892	13C4 PFHpA	85.9		40-130
STL01052	13C8 PFOA	94.5		40-130
STL02578	13C9 PFNA	85.6		40-130
STL02579	13C6 PFDA	85.3		40-130
STL02580	13C7 PFUnA	81.7		30-130
STL02116	13C2 PFTeDA	79.3		10-130
STL02337	13C3 PFBS	93.5		40-135
STL02581	13C3 PFHxS	90.4		40-130
STL01054	13C8 PFOS	90.0		40-130
STL01056	13C8 PFOSA	77.8		40-130
STL02118	d3-NMeFOSAA	80.2		40-170
STL02117	d5-NEtFOSAA	138	5+	25-135
STL02395	M2-4:2 FTS	90.3		40-200
STL02279	M2-6:2 FTS	83.6		40-200
STL02280	M2-8:2 FTS	88.6		40-300
STL02255	13C3 HFPO-DA	89.1		40-130
STL02277	d7-N-MeFOSE-M	50.8		10-130
STL02278	d9-N-EtFOSE-M	48.6		10-130
STL02704	d5-NEtPFOSA	57.7		10-130
STL02705	D3-NMeFOSA	62.0		10-130
STL02703	13C2-PFDoDA	82.0		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) | Lab Sample ID: 480-222079-4

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples49.d

Analysis Method: 1633 | Date Collected: 07/23/2024 14:26

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.2(mL) | Date Analyzed: 08/03/2024 23:30

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.8		3.9	0.98
2706-90-3	Perfluoropentanoic acid (PFPeA)	22		2.0	0.59
307-24-4	Perfluorohexanoic acid (PFHxA)	18		2.0	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	35		2.0	0.50
335-67-1	Perfluorooctanoic acid (PFOA)	140		2.0	0.53
335-76-2	Perfluorodecanoic acid (PFDA)	3.1		2.0	0.49
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.49
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.49
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.49
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.4		2.0	0.49
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	8.1		2.0	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	140		2.0	0.49
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	18		2.0	0.49
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1200		2.0	0.49
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.49
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.49
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	75		3.9	0.98
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.49
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.49
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.49
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.8	2.9

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) Lab Sample ID: 480-222079-4

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples49.d

Analysis Method: 1633 Date Collected: 07/23/2024 14:26

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.2(mL) Date Analyzed: 08/03/2024 23:30

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.8	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.63	J J	1.5	0.45
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.49
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.49
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.49
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		2.0	0.49
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		2.0	0.49
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.49
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.9	0.98
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.8	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.8	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.49
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.49

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) | Lab Sample ID: 480-222079-4

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples49.d

Analysis Method: 1633 | Date Collected: 07/23/2024 14:26

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.2(mL) | Date Analyzed: 08/03/2024 23:30

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	104		5-130
STL01893	13C5 PFPeA	106		40-130
STL02577	13C5 PFHxA	107		40-130
STL01892	13C4 PFHpA	103		40-130
STL01052	13C8 PFOA	112		40-130
STL02578	13C9 PFNA	103		40-130
STL02579	13C6 PFDA	103		40-130
STL02580	13C7 PFUnA	97.1		30-130
STL02116	13C2 PFTeDA	99.2		10-130
STL02337	13C3 PFBS	108		40-135
STL02581	13C3 PFHxS	106		40-130
STL01054	13C8 PFOS	109		40-130
STL01056	13C8 PFOSA	102		40-130
STL02118	d3-NMeFOSAA	102		40-170
STL02117	d5-NEtFOSAA	159	*5+	25-135
STL02395	M2-4:2 FTS	99.3		40-200
STL02279	M2-6:2 FTS	84.4		40-200
STL02280	M2-8:2 FTS	109		40-300
STL02255	13C3 HFPO-DA	97.7		40-130
STL02277	d7-N-MeFOSE-M	82.5		10-130
STL02278	d9-N-EtFOSE-M	83.1		10-130
STL02704	d5-NEtPFOSA	76.3		10-130
STL02705	D3-NMeFOSA	80.2		10-130
STL02703	13C2-PFDoDA	98.7		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) | Lab Sample ID: 480-222079-4

Matrix: Solid (TCLP) | Lab File ID: open11.d

Analysis Method: 1633 | Date Collected: 07/23/2024 14:26

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.2(mL) | Date Analyzed: 08/13/2024 10:39

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-95-1	Perfluorononanoic acid (PFNA)	31		2.0	0.49

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	96.9		5-130
STL01893	13C5 PFPeA	108		40-130
STL02577	13C5 PFHxA	98.8		40-130
STL01892	13C4 PFHpA	103		40-130
STL01052	13C8 PFOA	113		40-130
STL02578	13C9 PFNA	104		40-130
STL02579	13C6 PFDA	101		40-130
STL02580	13C7 PFUnA	92.5		30-130
STL02116	13C2 PFTeDA	78.2		10-130
STL02337	13C3 PFBS	157	~~*~~	40-135
STL02581	13C3 PFHxS	145	~~*~~	40-130
STL01054	13C8 PFOS	111		40-130
STL01056	13C8 PFOSA	98.5		40-130
STL02118	d3-NMeFOSAA	99.7		40-170
STL02117	d5-NEtFOSAA	96.5		25-135
STL02395	M2-4:2 FTS	132		40-200
STL02279	M2-6:2 FTS	96.9		40-200
STL02280	M2-8:2 FTS	143		40-300
STL02255	13C3 HFPO-DA	98.1		40-130
STL02277	d7-N-MeFOSE-M	73.8		10-130
STL02278	d9-N-EtFOSE-M	71.8		10-130
STL02704	d5-NEtPFOSA	72.1		10-130
STL02705	D3-NMeFOSA	75.3		10-130
STL02703	13C2-PFDoDA	96.6		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) DL | Lab Sample ID: 480-222079-4 DL

Matrix: Solid (TCLP) | Lab File ID: open23.d

Analysis Method: 1633 | Date Collected: 07/23/2024 14:26

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.2(mL) | Date Analyzed: 08/13/2024 14:31

Con. Extract Vol.: 5(mL) | Dilution Factor: 10

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	820		39	10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	106		5-130
STL01893	13C5 PFPeA	104		40-130
STL02577	13C5 PFHxA	102	Y	40-130
STL01892	13C4 PFHpA	103		40-130
STL01052	13C8 PFOA	88.4		40-130
STL02578	13C9 PFNA	97.9		40-130
STL02579	13C6 PFDA	94.2		40-130
STL02580	13C7 PFUnA	90.7		30-130
STL02116	13C2 PFTeDA	83.7		10-130
STL02337	13C3 PFBS	102		40-135
STL02581	13C3 PFHxS	95.6	Y	40-130
STL01054	13C8 PFOS	107		40-130
STL01056	13C8 PFOSA	88.4		40-130
STL02118	d3-NMeFOSAA	93.7		40-170
STL02117	d5-NEtFOSAA	85.1		25-135
STL02395	M2-4:2 FTS	114		40-200
STL02279	M2-6:2 FTS	109		40-200
STL02280	M2-8:2 FTS	62.4		40-300
STL02255	13C3 HFPO-DA	97.1		40-130
STL02277	d7-N-MeFOSE-M	70.7		10-130
STL02278	d9-N-EtFOSE-M	66.3		10-130
STL02704	d5-NEtPFOSA	62.6		10-130
STL02705	D3-NMeFOSA	69.9		10-130
STL02703	13C2-PFDoDA	81.6		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) Lab Sample ID: 480-222079-4

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples31.d

Analysis Method: 1633 Date Collected: 07/23/2024 14:26

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 131.5(mL) Date Analyzed: 08/03/2024 18:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	6.3		3.8	0.95
2706-90-3	Perfluoropentanoic acid (PFPeA)	22		1.9	0.57
307-24-4	Perfluorohexanoic acid (PFHxA)	19		1.9	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	36		1.9	0.48
335-67-1	Perfluorooctanoic acid (PFOA)	140		1.9	0.51
375-95-1	Perfluorononanoic acid (PFNA)	54		1.9	0.48
335-76-2	Perfluorodecanoic acid (PFDA)	3.9		1.9	0.48
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.48
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.5		1.9	0.48
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	7.9		1.9	0.48
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	140		1.9	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	29		1.9	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1000		1.9	0.48
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.48
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.48
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.8	1.1
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	96		3.8	0.95
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.48
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.48
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.64
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.48

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) Lab Sample ID: 480-222079-4

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples31.d

Analysis Method: 1633 Date Collected: 07/23/2024 14:26

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 131.5(mL) Date Analyzed: 08/03/2024 18:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.5	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.5	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.44
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.48
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.48
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.48
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.48
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.48
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.48
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.8	0.95
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.5	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.5	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) | Lab Sample ID: 480-222079-4

Matrix: Solid (SPLP East) | Lab File ID: ICAL_client_samples31.d

Analysis Method: 1633 | Date Collected: 07/23/2024 14:26

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 131.5(mL) | Date Analyzed: 08/03/2024 18:32

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	99.2		5-130
STL01893	13C5 PFPeA	105		40-130
STL02577	13C5 PFHxA	96.4		40-130
STL01892	13C4 PFHpA	97.8		40-130
STL01052	13C8 PFOA	108		40-130
STL02578	13C9 PFNA	99.6		40-130
STL02579	13C6 PFDA	98.6		40-130
STL02580	13C7 PFUnA	95.0		30-130
STL02116	13C2 PFTeDA	95.4		10-130
STL02337	13C3 PFBS	105		40-135
STL02581	13C3 PFHxS	104		40-130
STL01054	13C8 PFOS	105		40-130
STL01056	13C8 PFOSA	104		40-130
STL02118	d3-NMeFOSAA	102		40-170
STL02117	d5-NEtFOSAA	161	~~*5~~	25-135
STL02395	M2-4:2 FTS	97.7		40-200
STL02279	M2-6:2 FTS	80.1		40-200
STL02280	M2-8:2 FTS	102		40-300
STL02255	13C3 HFPO-DA	94.6		40-130
STL02277	d7-N-MeFOSE-M	83.5		10-130
STL02278	d9-N-EtFOSE-M	85.3		10-130
STL02704	d5-NEtPFOSA	80.5		10-130
STL02705	D3-NMeFOSA	84.6		10-130
STL02703	13C2-PFDoDA	99.2		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-321 (1.5-4) DL | Lab Sample ID: 480-222079-4 DL

Matrix: Solid (SPLP East) | Lab File ID: open20.d

Analysis Method: 1633 | Date Collected: 07/23/2024 14:26

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 131.5(mL) | Date Analyzed: 08/13/2024 13:41

Con. Extract Vol.: 5(mL) | Dilution Factor: 10

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	930		38	9.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	115		5-130
STL01893	13C5 PFPeA	107		40-130
STL02577	13C5 PFHxA	104		40-130
STL01892	13C4 PFHpA	104		40-130
STL01052	13C8 PFOA	114		40-130
STL02578	13C9 PFNA	105		40-130
STL02579	13C6 PFDA	104		40-130
STL02580	13C7 PFUnA	93.9		30-130
STL02116	13C2 PFTeDA	90.9		10-130
STL02337	13C3 PFBS	113		40-135
STL02581	13C3 PFHxS	108		40-130
STL01054	13C8 PFOS	114		40-130
STL01056	13C8 PFOSA	97.7		40-130
STL02118	d3-NMeFOSAA	99.3		40-170
STL02117	d5-NEtFOSAA	98.4		25-135
STL02395	M2-4:2 FTS	111		40-200
STL02279	M2-6:2 FTS	103		40-200
STL02280	M2-8:2 FTS	118		40-300
STL02255	13C3 HFPO-DA	104		40-130
STL02277	d7-N-MeFOSE-M	79.5		10-130
STL02278	d9-N-EtFOSE-M	78.8		10-130
STL02704	d5-NEtPFOSA	73.1		10-130
STL02705	D3-NMeFOSA	77.8		10-130
STL02703	13C2-PFDoDA	100		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) Lab Sample ID: 480-222079-5

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples50.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:05

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.4(mL) Date Analyzed: 08/03/2024 23:47

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	27		3.9	0.97
2706-90-3	Perfluoropentanoic acid (PFPeA)	120		1.9	0.58
307-24-4	Perfluorohexanoic acid (PFHxA)	57		1.9	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	48		1.9	0.50
335-67-1	Perfluorooctanoic acid (PFOA)	110		1.9	0.53
335-76-2	Perfluorodecanoic acid (PFDA)	15		1.9	0.49
2058-94-8	Perfluoroundecanoic acid (PFUnA)	17		1.9	0.49
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.49
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.49
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.2		1.9	0.49
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	5.4		1.9	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	110		1.9	0.49
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	75		1.9	0.49
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.49
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.49
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	160		3.9	1.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	270		3.9	0.97
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.49
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.49
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.49

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) Lab Sample ID: 480-222079-5

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples50.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:05

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.4(mL) Date Analyzed: 08/03/2024 23:47

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.7	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.7	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.54	J	1.5	0.45
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.49
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.49
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.49
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1 -sulfonic acid (9Cl-PF3O	ND		1.9	0.49
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.49
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.49
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.9	0.97
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	21		9.7	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	6.0	J	9.7	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.49
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.49

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) Lab Sample ID: 480-222079-5

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples50.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:05

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.4(mL) Date Analyzed: 08/03/2024 23:47

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	99.6		5-130
STL01893	13C5 PFPeA	101		40-130
STL02577	13C5 PFHxA	100		40-130
STL01892	13C4 PFHpA	99.5		40-130
STL01052	13C8 PFOA	113		40-130
STL02578	13C9 PFNA	98.2		40-130
STL02579	13C6 PFDA	102		40-130
STL02580	13C7 PFUnA	95.7		30-130
STL02116	13C2 PFTeDA	107		10-130
STL02337	13C3 PFBS	112		40-135
STL02581	13C3 PFHxS	107		40-130
STL01054	13C8 PFOS	71.7		40-130
STL01056	13C8 PFOSA	131	+5+	40-130
STL02118	d3-NMeFOSAA	138		40-170
STL02117	d5-NEtFOSAA	217	+5+	25-135
STL02395	M2-4:2 FTS	98.5		40-200
STL02279	M2-6:2 FTS	93.8		40-200
STL02280	M2-8:2 FTS	84.8		40-300
STL02255	13C3 HFPO-DA	95.7		40-130
STL02277	d7-N-MeFOSE-M	112		10-130
STL02278	d9-N-EtFOSE-M	115		10-130
STL02704	d5-NEtPFOSA	102		10-130
STL02705	D3-NMeFOSA	101		10-130
STL02703	13C2-PFDoDA	99.3		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) | Lab Sample ID: 480-222079-5

Matrix: Solid (TCLP) | Lab File ID: open12.d

Analysis Method: 1633 | Date Collected: 07/24/2024 08:05

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.4(mL) | Date Analyzed: 08/13/2024 10:56

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-95-1	Perfluorononanoic acid (PFNA)	140		1.9	0.49

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	75.8		5-130
STL01893	13C5 PFPeA	109		40-130
STL02577	13C5 PFHxA	100		40-130
STL01892	13C4 PFHpA	101		40-130
STL01052	13C8 PFOA	112		40-130
STL02578	13C9 PFNA	103		40-130
STL02579	13C6 PFDA	97.0		40-130
STL02580	13C7 PFUnA	91.8		30-130
STL02116	13C2 PFTeDA	82.3		10-130
STL02337	13C3 PFBS	109		40-135
STL02581	13C3 PFHxS	106		40-130
STL01054	13C8 PFOS	109		40-130
STL01056	13C8 PFOSA	123		40-130
STL02118	d3-NMeFOSAA	121		40-170
STL02117	d5-NEtFOSAA	116		25-135
STL02395	M2-4:2 FTS	97.2		40-200
STL02279	M2-6:2 FTS	93.9		40-200
STL02280	M2-8:2 FTS	94.1	J	40-300
STL02255	13C3 HFPO-DA	95.4		40-130
STL02277	d7-N-MeFOSE-M	99.2		10-130
STL02278	d9-N-EtFOSE-M	93.4		10-130
STL02704	d5-NEtPFOSA	93.8		10-130
STL02705	D3-NMeFOSA	97.0		10-130
STL02703	13C2-PFDoDA	75.6		10-130

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) DL Lab Sample ID: 480-222079-5 DL

Matrix: Solid (TCLP) Lab File ID: open24.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:05

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 128.4(mL) Date Analyzed: 08/13/2024 14:48

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5800		19	4.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	121		5-130
STL01893	13C5 PFPeA	120		40-130
STL02577	13C5 PFHxA	115		40-130
STL01892	13C4 PFHpA	116		40-130
STL01052	13C8 PFOA	119		40-130
STL02578	13C9 PFNA	112		40-130
STL02579	13C6 PFDA	112		40-130
STL02580	13C7 PFUnA	97.3		30-130
STL02116	13C2 PFTeDA	99.7		10-130
STL02337	13C3 PFBS	121		40-135
STL02581	13C3 PFHxS	66.1		40-130
STL01054	13C8 PFOS	121		40-130
STL01056	13C8 PFOSA	107		40-130
STL02118	d3-NMeFOSAA	110		40-170
STL02117	d5-NEtFOSAA	108		25-135
STL02395	M2-4:2 FTS	121		40-200
STL02279	M2-6:2 FTS	117		40-200
STL02280	M2-8:2 FTS	127		40-300
STL02255	13C3 HFPO-DA	104		40-130
STL02277	d7-N-MeFOSE-M	86.5		10-130
STL02278	d9-N-EtFOSE-M	83.7		10-130
STL02704	d5-NEtPFOSA	80.1		10-130
STL02705	D3-NMeFOSA	86.4		10-130
STL02703	13C2-PFDoDA	100		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) Lab Sample ID: 480-222079-5

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples32.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:05

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 129.6(mL) Date Analyzed: 08/03/2024 18:49

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	23		3.9	0.96
2706-90-3	Perfluoropentanoic acid (PFPeA)	100		1.9	0.58
307-24-4	Perfluorohexanoic acid (PFHxA)	57		1.9	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	53		1.9	0.49
335-67-1	Perfluorooctanoic acid (PFOA)	120		1.9	0.52
375-95-1	Perfluorononanoic acid (PFNA)	170		1.9	0.48
335-76-2	Perfluorodecanoic acid (PFDA)	32		1.9	0.48
2058-94-8	Perfluoroundecanoic acid (PFUnA)	95		1.9	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	0.51	J	1.9	0.48
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1.8	J	1.9	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.0		1.9	0.48
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	5.3		1.9	0.48
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	110		1.9	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	69		1.9	0.48
68259-12-1	Perfluorononanesulfonic acid (PFNS)	3.4		1.9	0.48
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.48
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	170		3.9	0.99
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	480		3.9	0.96
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.3	J J	1.9	0.48
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.48
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.48

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) Lab Sample ID: 480-222079-5

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples32.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:05

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 129.6(mL) Date Analyzed: 08/03/2024 18:49

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.6	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.6	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.44
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.48
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.48
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.48
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1 -sulfonic acid (9Cl-PF3O	ND		1.9	0.48
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.48
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.48
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.7	J	3.9	0.96
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	27		9.6	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	2.9	J	9.6	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.48

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) Lab Sample ID: 480-222079-5

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples32.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:05

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 129.6(mL) Date Analyzed: 08/03/2024 18:49

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	92.2		5-130
STL01893	13C5 PFPeA	99.4		40-130
STL02577	13C5 PFHxA	94.8		40-130
STL01892	13C4 PFHpA	97.2		40-130
STL01052	13C8 PFOA	103		40-130
STL02578	13C9 PFNA	98.0		40-130
STL02579	13C6 PFDA	97.7		40-130
STL02580	13C7 PFUnA	90.8		30-130
STL02116	13C2 PFTeDA	92.5		10-130
STL02337	13C3 PFBS	107		40-135
STL02581	13C3 PFHxS	103		40-130
STL01054	13C8 PFOS	106		40-130
STL01056	13C8 PFOSA	145	~~*5+~~	40-130
STL02118	d3-NMeFOSAA	147		40-170
STL02117	d5-NEtFOSAA	202	~~*5+~~	25-135
STL02395	M2-4:2 FTS	88.0		40-200
STL02279	M2-6:2 FTS	87.2		40-200
STL02280	M2-8:2 FTS	96.3		40-300
STL02255	13C3 HFPO-DA	95.1		40-130
STL02277	d7-N-MeFOSE-M	111		10-130
STL02278	d9-N-EtFOSE-M	107		10-130
STL02704	d5-NEtPFOSA	115		10-130
STL02705	D3-NMeFOSA	117		10-130
STL02703	13C2-PFDoDA	94.1		10-130

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SPLP

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-323 (0-0.5) DL | Lab Sample ID: 480-222079-5 DL

Matrix: Solid (SPLP East) | Lab File ID: open21.d

Analysis Method: 1633 | Date Collected: 07/24/2024 08:05

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 129.6(mL) | Date Analyzed: 08/13/2024 13:58

Con. Extract Vol.: 5(mL) | Dilution Factor: 10

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	10000		19	4.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	115		5-130
STL01893	13C5 PFPeA	116		40-130
STL02577	13C5 PFHxA	108		40-130
STL01892	13C4 PFHpA	115		40-130
STL01052	13C8 PFOA	119		40-130
STL02578	13C9 PFNA	113		40-130
STL02579	13C6 PFDA	108		40-130
STL02580	13C7 PFUnA	75.5		30-130
STL02116	13C2 PFTeDA	91.3		10-130
STL02337	13C3 PFBS	120		40-135
STL02581	13C3 PFHxS	112		40-130
STL01054	13C8 PFOS	119		40-130
STL01056	13C8 PFOSA	113		40-130
STL02118	d3-NMeFOSAA	117		40-170
STL02117	d5-NEtFOSAA	109		25-135
STL02395	M2-4:2 FTS	111		40-200
STL02279	M2-6:2 FTS	115		40-200
STL02280	M2-8:2 FTS	122		40-300
STL02255	13C3 HFPO-DA	101		40-130
STL02277	d7-N-MeFOSE-M	77.0		10-130
STL02278	d9-N-EtFOSE-M	77.8		10-130
STL02704	d5-NEtPFOSA	80.4		10-130
STL02705	D3-NMeFOSA	88.3		10-130
STL02703	13C2-PFDoDA	95.2		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0-0.5) | Lab Sample ID: 480-222079-6

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples51.d

Analysis Method: 1633 | Date Collected: 07/24/2024 07:45

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 125.8(mL) | Date Analyzed: 08/04/2024 00:03

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	180		4.0	0.99
2706-90-3	Perfluoropentanoic acid (PFPeA)	380		2.0	0.60
307-24-4	Perfluorohexanoic acid (PFHxA)	130		2.0	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	200		2.0	0.51
335-67-1	Perfluorooctanoic acid (PFOA)	210		2.0	0.54
335-76-2	Perfluorodecanoic acid (PFDA)	15		2.0	0.50
2058-94-8	Perfluoroundecanoic acid (PFUnA)	3.8		2.0	0.50
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50
375-73-5	Perfluorobutanesulfonic acid (PFBS)	6.6		2.0	0.50
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	5.6		2.0	0.50
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	62		2.0	0.50
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.4		2.0	0.50
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	110		2.0	0.50
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.50
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.5	J	4.0	0.99
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.67
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0-0.5) Lab Sample ID: 480-222079-6

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples51.d

Analysis Method: 1633 Date Collected: 07/24/2024 07:45

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 125.8(mL) Date Analyzed: 08/04/2024 00:03

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.9	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.9	2.5
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.60	J	1.5	0.46
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.50
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		2.0	0.50
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		2.0	0.50
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	0.99
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	22		9.9	2.5
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	3.7	J	9.9	2.5
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50

b

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0-0.5) | Lab Sample ID: 480-222079-6

Matrix: Solid (TCLP) | Lab File ID: open13.d

Analysis Method: 1633 | Date Collected: 07/24/2024 07:45

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 125.8(mL) | Date Analyzed: 08/13/2024 11:12

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-95-1	Perfluorononanoic acid (PFNA)	94		2.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	95.1		5-130
STL01893	13C5 PFPeA	101		40-130
STL02577	13C5 PFHxA	99.6		40-130
STL01892	13C4 PFHpA	99.0		40-130
STL01052	13C8 PFOA	115		40-130
STL02578	13C9 PFNA	102		40-130
STL02579	13C6 PFDA	99.0		40-130
STL02580	13C7 PFUnA	60.0		30-130
STL02116	13C2 PFTeDA	75.2		10-130
STL02337	13C3 PFBS	108		40-135
STL02581	13C3 PFHxS	105		40-130
STL01054	13C8 PFOS	110		40-130
STL01056	13C8 PFOSA	89.7		40-130
STL02118	d3-NMeFOSAA	91.0		40-170
STL02117	d5-NEtFOSAA	90.5		25-135
STL02395	M2-4:2 FTS	122		40-200
STL02279	M2-6:2 FTS	72.5		40-200
STL02280	M2-8:2 FTS	61.8		40-300
STL02255	13C3 HFPO-DA	94.7		40-130
STL02277	d7-N-MeFOSE-M	68.8		10-130
STL02278	d9-N-EtFOSE-M	68.2		10-130
STL02704	d5-NEtPFOSA	70.4		10-130
STL02705	D3-NMeFOSA	72.2		10-130
STL02703	13C2-PFDoDA	91.8		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1
SDG No.:
Client Sample ID: DCFTC-SB-322 (0-0.5) | Lab Sample ID: 480-222079-6
Matrix: Solid (SPLP East) | Lab File ID: ICAL_client_samples33.d
Analysis Method: 1633 | Date Collected: 07/24/2024 07:45
Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37
Sample wt/vol: 115.6(mL) | Date Analyzed: 08/03/2024 19:05
Con. Extract Vol.: 5(mL) | Dilution Factor: 1
Injection Volume: 10(uL) | GC Column: ID:
% Moisture: % Solids: | GPC Cleanup:(Y/N) N
Cleanup Factor:
Analysis Batch No.: 622204 | Units: ng/L
Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	65		4.3	1.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	140		2.2	0.65
307-24-4	Perfluorohexanoic acid (PFHxA)	89		2.2	0.54
375-85-9	Perfluoroheptanoic acid (PFHpA)	150		2.2	0.55
335-67-1	Perfluorooctanoic acid (PFOA)	200		2.2	0.58
375-95-1	Perfluorononanoic acid (PFNA)	120		2.2	0.54
335-76-2	Perfluorodecanoic acid (PFDA)	35		2.2	0.54
2058-94-8	Perfluoroundecanoic acid (PFUnA)	4.5		2.2	0.54
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.2	0.54
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		2.2	0.54
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		2.2	0.54
375-73-5	Perfluorobutanesulfonic acid (PFBS)	6.0		2.2	0.54
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	5.3		2.2	0.54
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	72		2.2	0.54
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	3.6		2.2	0.54
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	360		2.2	0.54
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		2.2	0.54
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.2	0.54
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.3	1.2
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.0		4.3	1.1
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	3.3	J	4.3	1.1
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		2.2	0.54
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.2	0.54
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.2	0.54
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.2	0.72

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0-0.5) Lab Sample ID: 480-222079-6

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples33.d

Analysis Method: 1633 Date Collected: 07/24/2024 07:45

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 115.6(mL) Date Analyzed: 08/03/2024 19:05

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.2	0.54
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		11	3.2
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		11	2.7
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.6	0.50
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.2	0.54
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.2	0.54
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.2	0.54
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		2.2	0.54
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		2.2	0.54
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.2	0.54
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.3	1.1
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		11	2.7
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		11	2.7
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.2	0.54
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.2	0.54

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-322 (0-0.5) Lab Sample ID: 480-222079-6

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples33.d

Analysis Method: 1633 Date Collected: 07/24/2024 07:45

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 115.6(mL) Date Analyzed: 08/03/2024 19:05

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	99.6		5-130
STL01893	13C5 PFPeA	105		40-130
STL02577	13C5 PFHxA	97.6		40-130
STL01892	13C4 PFHpA	103		40-130
STL01052	13C8 PFOA	110		40-130
STL02578	13C9 PFNA	101		40-130
STL02579	13C6 PFDA	98.6		40-130
STL02580	13C7 PFUnA	94.1		30-130
STL02116	13C2 PFTeDA	93.4		10-130
STL02337	13C3 PFBS	108		40-135
STL02581	13C3 PFHxS	106		40-130
STL01054	13C8 PFOS	107		40-130
STL01056	13C8 PFOSA	97.9		40-130
STL02118	d3-NMeFOSAA	103		40-170
STL02117	d5-NEtFOSAA	147	~~*5+~~	25-135
STL02395	M2-4:2 FTS	93.6		40-200
STL02279	M2-6:2 FTS	88.2		40-200
STL02280	M2-8:2 FTS	98.9		40-300
STL02255	13C3 HFPO-DA	104		40-130
STL02277	d7-N-MeFOSE-M	77.5		10-130
STL02278	d9-N-EtFOSE-M	77.0		10-130
STL02704	d5-NEtPFOSA	79.4		10-130
STL02705	D3-NMeFOSA	80.5		10-130
STL02703	13C2-PFDoDA	98.7		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) | Lab Sample ID: 480-222079-7

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples52.d

Analysis Method: 1633 | Date Collected: 07/24/2024 08:22

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 126.9(mL) | Date Analyzed: 08/04/2024 00:20

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	32		3.9	0.99
2706-90-3	Perfluoropentanoic acid (PFPeA)	120		2.0	0.59
307-24-4	Perfluorohexanoic acid (PFHxA)	50		2.0	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	47		2.0	0.50
335-67-1	Perfluorooctanoic acid (PFOA)	110		2.0	0.53
335-76-2	Perfluorodecanoic acid (PFDA)	31		2.0	0.49
2058-94-8	Perfluoroundecanoic acid (PFUnA)	39		2.0	0.49
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.49
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.49
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.5		2.0	0.49
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	5.6		2.0	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	72		2.0	0.49
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	9.2		2.0	0.49
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.7		2.0	0.49
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.49
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	64		3.9	1.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	69		3.9	0.99
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.8	J	2.0	0.49
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.49
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.66
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.93	J	2.0	0.49

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) Lab Sample ID: 480-222079-7

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples52.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:22

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 126.9(mL) Date Analyzed: 08/04/2024 00:20

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.9	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.9	2.5
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.45
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.49
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.49
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.49
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1 -sulfonic acid (9Cl-PF3O	ND		2.0	0.49
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		2.0	0.49
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.49
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	4.8		3.9	0.99
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	25		9.9	2.5
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12		9.9	2.5
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.49
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.49

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) Lab Sample ID: 480-222079-7

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples52.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:22

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 126.9(mL) Date Analyzed: 08/04/2024 00:20

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	107		5-130
STL01893	13C5 PFPeA	112		40-130
STL02577	13C5 PFHxA	109		40-130
STL01892	13C4 PFHpA	108		40-130
STL01052	13C8 PFOA	118		40-130
STL02578	13C9 PFNA	110		40-130
STL02579	13C6 PFDA	105		40-130
STL02580	13C7 PFUnA	99.2		30-130
STL02116	13C2 PFTeDA	104		10-130
STL02337	13C3 PFBS	118		40-135
STL02581	13C3 PFHxS	113		40-130
STL01054	13C8 PFOS	116		40-130
STL01056	13C8 PFOSA	124		40-130
STL02118	d3-NMeFOSAA	129		40-170
STL02117	d5-NEtFOSAA	259	*5	25-135
STL02395	M2-4:2 FTS	108		40-200
STL02279	M2-6:2 FTS	101		40-200
STL02280	M2-8:2 FTS	111		40-300
STL02255	13C3 HFPO-DA	103		40-130
STL02277	d7-N-MeFOSE-M	113		10-130
STL02278	d9-N-EtFOSE-M	103		10-130
STL02704	d5-NEtPFOSA	96.6		10-130
STL02705	D3-NMeFOSA	97.5		10-130
STL02703	13C2-PFDoDA	104		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) | Lab Sample ID: 480-222079-7

Matrix: Solid (TCLP) | Lab File ID: open14.d

Analysis Method: 1633 | Date Collected: 07/24/2024 08:22

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 126.9(mL) | Date Analyzed: 08/13/2024 11:29

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-95-1	Perfluorononanoic acid (PFNA)	100		2.0	0.49

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	94.1		5-130
STL01893	13C5 PFPeA	103		40-130
STL02577	13C5 PFHxA	97.9		40-130
STL01892	13C4 PFHpA	98.9		40-130
STL01052	13C8 PFOA	110		40-130
STL02578	13C9 PFNA	98.4		40-130
STL02579	13C6 PFDA	100		40-130
STL02580	13C7 PFUnA	54.8		30-130
STL02116	13C2 PFTeDA	89.3		10-130
STL02337	13C3 PFBS	111		40-135
STL02581	13C3 PFHxS	103		40-130
STL01054	13C8 PFOS	109		40-130
STL01056	13C8 PFOSA	111		40-130
STL02118	d3-NMeFOSAA	109		40-170
STL02117	d5-NEtFOSAA	107		25-135
STL02395	M2-4:2 FTS	97.1		40-200
STL02279	M2-6:2 FTS	100		40-200
STL02280	M2-8:2 FTS	107		40-300
STL02255	13C3 HFPO-DA	94.0		40-130
STL02277	d7-N-MeFOSE-M	87.3		10-130
STL02278	d9-N-EtFOSE-M	81.1		10-130
STL02704	d5-NEtPFOSA	81.1		10-130
STL02705	D3-NMeFOSA	84.5		10-130
STL02703	13C2-PFDoDA	95.9		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) DL Lab Sample ID: 480-222079-7 DL

Matrix: Solid (TCLP) Lab File ID: open25.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:22

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 126.9(mL) Date Analyzed: 08/13/2024 15:04

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2100		20	4.9

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	111		5-130
STL01893	13C5 PFPeA	108		40-130
STL02577	13C5 PFHxA	101		40-130
STL01892	13C4 PFHpA	108		40-130
STL01052	13C8 PFOA	109		40-130
STL02578	13C9 PFNA	144	*5*	40-130
STL02579	13C6 PFDA	101		40-130
STL02580	13C7 PFUnA	71.4		30-130
STL02116	13C2 PFTeDA	83.8		10-130
STL02337	13C3 PFBS	104		40-135
STL02581	13C3 PFHxS	53.8	I	40-130
STL01054	13C8 PFOS	111		40-130
STL01056	13C8 PFOSA	97.2		40-130
STL02118	d3-NMeFOSAA	99.8		40-170
STL02117	d5-NEtFOSAA	97.5		25-135
STL02395	M2-4:2 FTS	105		40-200
STL02279	M2-6:2 FTS	77.6		40-200
STL02280	M2-8:2 FTS	96.3		40-300
STL02255	13C3 HFPO-DA	102		40-130
STL02277	d7-N-MeFOSE-M	83.0		10-130
STL02278	d9-N-EtFOSE-M	75.7		10-130
STL02704	d5-NEtPFOSA	72.7		10-130
STL02705	D3-NMeFOSA	75.3		10-130
STL02703	13C2-PFDoDA	97.4		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) Lab Sample ID: 480-222079-7

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples34.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:22

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 130.5(mL) Date Analyzed: 08/03/2024 19:22

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	29		3.8	0.96
2706-90-3	Perfluoropentanoic acid (PFPeA)	110		1.9	0.57
307-24-4	Perfluorohexanoic acid (PFHxA)	51		1.9	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	45		1.9	0.49
335-67-1	Perfluorooctanoic acid (PFOA)	120		1.9	0.52
375-95-1	Perfluorononanoic acid (PFNA)	110		1.9	0.48
335-76-2	Perfluorodecanoic acid (PFDA)	43		1.9	0.48
2058-94-8	Perfluoroundecanoic acid (PFUnA)	61		1.9	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.48
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.5		1.9	0.48
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	5.4		1.9	0.48
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	72		1.9	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	10		1.9	0.48
68259-12-1	Perfluorononanesulfonic acid (PFNS)	4.7		1.9	0.48
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.48
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.8	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	68		3.8	0.99
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120		3.8	0.96
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.2	F J	1.9	0.48
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.48
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.64
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.48

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) Lab Sample ID: 480-222079-7

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples34.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:22

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 130.5(mL) Date Analyzed: 08/03/2024 19:22

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.6	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.6	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.44
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.48
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.48
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.48
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.48
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.48
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.48
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	15		3.8	0.96
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	35		9.6	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	2.5	J	9.6	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1
SDG No.:
Client Sample ID: DCFTC-SB-324 (0.5-1.5) Lab Sample ID: 480-222079-7
Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples34.d
Analysis Method: 1633 Date Collected: 07/24/2024 08:22
Extraction Method: 1633 Date Extracted: 08/02/2024 12:37
Sample wt/vol: 130.5(mL) Date Analyzed: 08/03/2024 19:22
Con. Extract Vol.: 5(mL) Dilution Factor: 1
Injection Volume: 10(uL) GC Column: ID:
% Moisture: % Solids: GPC Cleanup:(Y/N) N
Cleanup Factor:
Analysis Batch No.: 622204 Units: ng/L
Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	99.0		5-130
STL01893	13C5 PFPeA	106		40-130
STL02577	13C5 PFHxA	99.2		40-130
STL01892	13C4 PFHpA	101		40-130
STL01052	13C8 PFOA	109		40-130
STL02578	13C9 PFNA	101		40-130
STL02579	13C6 PFDA	94.9		40-130
STL02580	13C7 PFUnA	89.4		30-130
STL02116	13C2 PFTeDA	98.7		10-130
STL02337	13C3 PFBS	105		40-135
STL02581	13C3 PFHxS	103		40-130
STL01054	13C8 PFOS	104		40-130
STL01056	13C8 PFOSA	116		40-130
STL02118	d3-NMeFOSAA	118		40-170
STL02117	d5-NEtFOSAA	185	*5+	25-135
STL02395	M2-4:2 FTS	100		40-200
STL02279	M2-6:2 FTS	94.8		40-200
STL02280	M2-8:2 FTS	100		40-300
STL02255	13C3 HFPO-DA	98.4		40-130
STL02277	d7-N-MeFOSE-M	84.9		10-130
STL02278	d9-N-EtFOSE-M	85.2		10-130
STL02704	d5-NEtPFOSA	90.9		10-130
STL02705	D3-NMeFOSA	96.2		10-130
STL02703	13C2-PFDoDA	98.5		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-324 (0.5-1.5) DL Lab Sample ID: 480-222079-7 DL

Matrix: Solid (SPLP East) Lab File ID: open22.d

Analysis Method: 1633 Date Collected: 07/24/2024 08:22

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 130.5(mL) Date Analyzed: 08/13/2024 14:15

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2700		19	4.8

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	105		5-130
STL01893	13C5 PFPeA	102		40-130
STL02577	13C5 PFHxA	95.0		40-130
STL01892	13C4 PFHpA	98.0		40-130
STL01052	13C8 PFOA	96.8		40-130
STL02578	13C9 PFNA	69.5		40-130
STL02579	13C6 PFDA	95.2		40-130
STL02580	13C7 PFUnA	52.5		30-130
STL02116	13C2 PFTeDA	84.3		10-130
STL02337	13C3 PFBS	99.1	F	40-135
STL02581	13C3 PFHxS	98.0		40-130
STL01054	13C8 PFOS	106		40-130
STL01056	13C8 PFOSA	90.8		40-130
STL02118	d3-NMeFOSAA	93.6		40-170
STL02117	d5-NEtFOSAA	88.0		25-135
STL02395	M2-4:2 FTS	107		40-200
STL02279	M2-6:2 FTS	74.8		40-200
STL02280	M2-8:2 FTS	91.1		40-300
STL02255	13C3 HFPO-DA	91.1		40-130
STL02277	d7-N-MeFOSE-M	64.8		10-130
STL02278	d9-N-EtFOSE-M	63.2		10-130
STL02704	d5-NEtPFOSA	69.0		10-130
STL02705	D3-NMeFOSA	76.1		10-130
STL02703	13C2-PFDoDA	87.6		10-130

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (1.5-4) | Lab Sample ID: 480-222079-8

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples53.d

Analysis Method: 1633 | Date Collected: 07/24/2024 10:40

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 129(mL) | Date Analyzed: 08/04/2024 00:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		3.9	0.97
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.9		1.9	0.58
307-24-4	Perfluorohexanoic acid (PFHxA)	3.1		1.9	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.1		1.9	0.49
335-67-1	Perfluorooctanoic acid (PFOA)	6.7		1.9	0.52
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.48
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.48
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.0		1.9	0.48
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.9		1.9	0.48
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	42		1.9	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	18		1.9	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	380		1.9	0.48
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.48
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.48
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.2	J	3.9	1.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.3	J	3.9	0.97
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.48
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.48
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.48

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (1.5-4) Lab Sample ID: 480-222079-8

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples53.d

Analysis Method: 1633 Date Collected: 07/24/2024 10:40

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 129(mL) Date Analyzed: 08/04/2024 00:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.7	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.7	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.45
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.48
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.48
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.48
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.48
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.48
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.48
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.9	0.97
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.7	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.7	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.48

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (1.5-4) Lab Sample ID: 480-222079-8

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples53.d

Analysis Method: 1633 Date Collected: 07/24/2024 10:40

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 129(mL) Date Analyzed: 08/04/2024 00:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	114		5-130
STL01893	13C5 PFPeA	116		40-130
STL02577	13C5 PFHxA	110		40-130
STL01892	13C4 PFHpA	110		40-130
STL01052	13C8 PFOA	121		40-130
STL02578	13C9 PFNA	111		40-130
STL02579	13C6 PFDA	107		40-130
STL02580	13C7 PFUnA	97.7		30-130
STL02116	13C2 PFTeDA	98.0		10-130
STL02337	13C3 PFBS	123		40-135
STL02581	13C3 PFHxS	116		40-130
STL01054	13C8 PFOS	114		40-130
STL01056	13C8 PFOSA	100		40-130
STL02118	d3-NMeFOSAA	103		40-170
STL02117	d5-NEtFOSAA	183	F5F	25-135
STL02395	M2-4:2 FTS	112		40-200
STL02279	M2-6:2 FTS	105		40-200
STL02280	M2-8:2 FTS	109		40-300
STL02255	13C3 HFPO-DA	109		40-130
STL02277	d7-N-MeFOSE-M	75.1		10-130
STL02278	d9-N-EtFOSE-M	75.7		10-130
STL02704	d5-NEtPFOSA	75.7		10-130
STL02705	D3-NMeFOSA	79.8		10-130
STL02703	13C2-PFDoDA	101		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (1.5-4) | Lab Sample ID: 480-222079-8

Matrix: Solid (TCLP) | Lab File ID: open15.d

Analysis Method: 1633 | Date Collected: 07/24/2024 10:40

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 129(mL) | Date Analyzed: 08/13/2024 11:45

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-95-1	Perfluorononanoic acid (PFNA)	10		1.9	0.48

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	85.1		5-130
STL01893	13C5 PFPeA	93.9		40-130
STL02577	13C5 PFHxA	88.9		40-130
STL01892	13C4 PFHpA	87.9		40-130
STL01052	13C8 PFOA	95.5		40-130
STL02578	13C9 PFNA	87.9		40-130
STL02579	13C6 PFDA	83.0		40-130
STL02580	13C7 PFUnA	78.9		30-130
STL02116	13C2 PFTeDA	65.8		10-130
STL02337	13C3 PFBS	93.0		40-135
STL02581	13C3 PFHxS	93.3		40-130
STL01054	13C8 PFOS	91.2		40-130
STL01056	13C8 PFOSA	75.5		40-130
STL02118	d3-NMeFOSAA	77.8		40-170
STL02117	d5-NEtFOSAA	76.7		25-135
STL02395	M2-4:2 FTS	86.7		40-200
STL02279	M2-6:2 FTS	65.3		40-200
STL02280	M2-8:2 FTS	90.4		40-300
STL02255	13C3 HFPO-DA	82.3		40-130
STL02277	d7-N-MeFOSE-M	56.1		10-130
STL02278	d9-N-EtFOSE-M	54.0		10-130
STL02704	d5-NEtPFOSA	57.4		10-130
STL02705	D3-NMeFOSA	58.7		10-130
STL02703	13C2-PFDoDA	65.1		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (1.5-4) Lab Sample ID: 480-222079-8

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples37.d

Analysis Method: 1633 Date Collected: 07/24/2024 10:40

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 128.7(mL) Date Analyzed: 08/03/2024 20:11

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		3.9	0.97
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.2		1.9	0.58
307-24-4	Perfluorohexanoic acid (PFHxA)	3.3		1.9	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.6		1.9	0.50
335-67-1	Perfluorooctanoic acid (PFOA)	11		1.9	0.52
375-95-1	Perfluorononanoic acid (PFNA)	19		1.9	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	0.55	J	1.9	0.49
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.49
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.49
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.49
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.3		1.9	0.49
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	3.7		1.9	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	64		1.9	0.49
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	16		1.9	0.49
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	620		1.9	0.49
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.49
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.49
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.1	J	3.9	1.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.6	J	3.9	0.97
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.49
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.49
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.65

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (1.5-4) Lab Sample ID: 480-222079-8

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples37.d

Analysis Method: 1633 Date Collected: 07/24/2024 10:40

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 128.7(mL) Date Analyzed: 08/03/2024 20:11

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.49
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.7	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.7	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.45
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.49
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.49
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.49
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.49
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.49
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.49
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.9	0.97
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.7	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.7	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.49
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.49

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-337 (1.5-4) | Lab Sample ID: 480-222079-8

Matrix: Solid (SPLP East) | Lab File ID: ICAL_client_samples37.d

Analysis Method: 1633 | Date Collected: 07/24/2024 10:40

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 128.7(mL) | Date Analyzed: 08/03/2024 20:11

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	94.8		5-130
STL01893	13C5 PFPeA	99.6		40-130
STL02577	13C5 PFHxA	94.1		40-130
STL01892	13C4 PFHpA	92.7		40-130
STL01052	13C8 PFOA	103		40-130
STL02578	13C9 PFNA	96.5		40-130
STL02579	13C6 PFDA	95.2		40-130
STL02580	13C7 PFUnA	88.7		30-130
STL02116	13C2 PFTeDA	92.1		10-130
STL02337	13C3 PFBS	99.3		40-135
STL02581	13C3 PFHxS	101		40-130
STL01054	13C8 PFOS	100		40-130
STL01056	13C8 PFOSA	92.1		40-130
STL02118	d3-NMeFOSAA	92.3		40-170
STL02117	d5-NEtFOSAA	134		25-135
STL02395	M2-4:2 FTS	93.4		40-200
STL02279	M2-6:2 FTS	88.3		40-200
STL02280	M2-8:2 FTS	103		40-300
STL02255	13C3 HFPO-DA	91.4		40-130
STL02277	d7-N-MeFOSE-M	57.7		10-130
STL02278	d9-N-EtFOSE-M	54.5		10-130
STL02704	d5-NEtPFOSA	72.7		10-130
STL02705	D3-NMeFOSA	76.1		10-130
STL02703	13C2-PFDoDA	91.3		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (1.5-4) Lab Sample ID: 480-222079-9

Matrix: Solid (TCLP) Lab File ID: ICAL_client_samples54.d

Analysis Method: 1633 Date Collected: 07/24/2024 10:46

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 130.1(mL) Date Analyzed: 08/04/2024 00:53

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	15		3.8	0.96
2706-90-3	Perfluoropentanoic acid (PFPeA)	39		1.9	0.58
307-24-4	Perfluorohexanoic acid (PFHxA)	20		1.9	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	18		1.9	0.49
335-67-1	Perfluorooctanoic acid (PFOA)	20		1.9	0.52
335-76-2	Perfluorodecanoic acid (PFDA)	0.78	J	1.9	0.48
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.48
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.48
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.56	J	1.9	0.48
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	16		1.9	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	16		1.9	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	440		1.9	0.48
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.48
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.48
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.8	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120		3.8	0.99
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	8.2		3.8	0.96
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.48
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.48
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.64
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.48

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (1.5-4) | Lab Sample ID: 480-222079-9

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples54.d

Analysis Method: 1633 | Date Collected: 07/24/2024 10:46

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 130.1(mL) | Date Analyzed: 08/04/2024 00:53

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.6	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.6	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.44
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.48
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.48
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.48
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1 -sulfonic acid (9Cl-PF3O	ND		1.9	0.48
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.48
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.48
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.8	0.96
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.6	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.6	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.48

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (1.5-4) Lab Sample ID: 480-222079-9

Matrix: Solid (TCLP) Lab File ID: open16.d

Analysis Method: 1633 Date Collected: 07/24/2024 10:46

Extraction Method: 1633 Date Extracted: 08/02/2024 12:49

Sample wt/vol: 130.1(mL) Date Analyzed: 08/13/2024 12:02

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 Units: ng/L

Preparation Batch No.: 622147 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-95-1	Perfluorononanoic acid (PFNA)	97		1.9	0.48

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	101		5-130
STL01893	13C5 PFPeA	109		40-130
STL02577	13C5 PFHxA	102		40-130
STL01892	13C4 PFHpA	102		40-130
STL01052	13C8 PFOA	118		40-130
STL02578	13C9 PFNA	103		40-130
STL02579	13C6 PFDA	103		40-130
STL02580	13C7 PFUnA	51.1		30-130
STL02116	13C2 PFTeDA	88.4		10-130
STL02337	13C3 PFBS	115		40-135
STL02581	13C3 PFHxS	110		40-130
STL01054	13C8 PFOS	111		40-130
STL01056	13C8 PFOSA	93.5		40-130
STL02118	d3-NMeFOSAA	94.2		40-170
STL02117	d5-NEtFOSAA	93.3		25-135
STL02395	M2-4:2 FTS	104		40-200
STL02279	M2-6:2 FTS	79.6		40-200
STL02280	M2-8:2 FTS	80.6		40-300
STL02255	13C3 HFPO-DA	95.5		40-130
STL02277	d7-N-MeFOSE-M	69.9		10-130
STL02278	d9-N-EtFOSE-M	63.1		10-130
STL02704	d5-NEtPFOSA	67.6		10-130
STL02705	D3-NMeFOSA	70.1		10-130
STL02703	13C2-PFDoDA	80.7		10-130

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SPLP

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (1.5-4) | Lab Sample ID: 480-222079-9

Matrix: Solid (SPLP East) | Lab File ID: ICAL_client_samples38.d

Analysis Method: 1633 | Date Collected: 07/24/2024 10:46

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 126.6(mL) | Date Analyzed: 08/03/2024 20:28

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: | ID:

% Moisture: | % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	14		3.9	0.99
2706-90-3	Perfluoropentanoic acid (PFPeA)	35		2.0	0.59
307-24-4	Perfluorohexanoic acid (PFHxA)	18		2.0	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	17		2.0	0.50
335-67-1	Perfluorooctanoic acid (PFOA)	18		2.0	0.53
375-95-1	Perfluorononanoic acid (PFNA)	120		2.0	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	1.1	J	2.0	0.49
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.69	J	2.0	0.49
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.49
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.49
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.49
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.52	J	2.0	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	14		2.0	0.49
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	17		2.0	0.49
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	590		2.0	0.49
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.49
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.49
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	110		3.9	1.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	14		3.9	0.99
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.49
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.49
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.66

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SPLP

Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (1.5-4) | Lab Sample ID: 480-222079-9

Matrix: Solid (SPLP East) | Lab File ID: ICAL_client_samples38.d

Analysis Method: 1633 | Date Collected: 07/24/2024 10:46

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:37

Sample wt/vol: 126.6(mL) | Date Analyzed: 08/03/2024 20:28

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622146 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.49
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.9	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.9	2.5
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.45
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.49
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.49
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.49
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		2.0	0.49
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		2.0	0.49
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.49
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.9	0.99
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.9	2.5
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.9	2.5
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.49
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.49

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-338 (1.5-4) Lab Sample ID: 480-222079-9

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples38.d

Analysis Method: 1633 Date Collected: 07/24/2024 10:46

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 126.6(mL) Date Analyzed: 08/03/2024 20:28

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	97.3		5-130
STL01893	13C5 PFPeA	102		40-130
STL02577	13C5 PFHxA	96.1		40-130
STL01892	13C4 PFHpA	97.9		40-130
STL01052	13C8 PFOA	108		40-130
STL02578	13C9 PFNA	95.4		40-130
STL02579	13C6 PFDA	93.6		40-130
STL02580	13C7 PFUnA	86.8		30-130
STL02116	13C2 PFTeDA	83.7		10-130
STL02337	13C3 PFBS	96.9		40-135
STL02581	13C3 PFHxS	97.6		40-130
STL01054	13C8 PFOS	98.8		40-130
STL01056	13C8 PFOSA	91.1		40-130
STL02118	d3-NMeFOSAA	90.7		40-170
STL02117	d5-NEtFOSAA	128		25-135
STL02395	M2-4:2 FTS	90.7		40-200
STL02279	M2-6:2 FTS	85.1		40-200
STL02280	M2-8:2 FTS	97.7		40-300
STL02255	13C3 HFPO-DA	97.1		40-130
STL02277	d7-N-MeFOSE-M	61.5		10-130
STL02278	d9-N-EtFOSE-M	59.3		10-130
STL02704	d5-NEtPFOSA	70.0		10-130
STL02705	D3-NMeFOSA	72.7		10-130
STL02703	13C2-PFDoDA	89.8		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-339 0.5-1.5) | Lab Sample ID: 480-222079-10

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples55.d

Analysis Method: 1633 | Date Collected: 07/24/2024 12:10

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 129.4(mL) | Date Analyzed: 08/04/2024 01:10

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		3.9	0.97
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.4	J	1.9	0.58
307-24-4	Perfluorohexanoic acid (PFHxA)	1.6	J	1.9	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.49
335-67-1	Perfluorooctanoic acid (PFOA)	1.3	J	1.9	0.52
335-76-2	Perfluorodecanoic acid (PFDA)	1.8	J	1.9	0.48
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.7	J	1.9	0.48
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.48
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.48
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.48
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.88	J	1.9	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	14		1.9	0.48
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.48
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.48
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.9	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.9	0.99
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.5	J	3.9	0.97
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.48
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.48
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.48

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-339 0.5-1.5) | Lab Sample ID: 480-222079-10

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples55.d

Analysis Method: 1633 | Date Collected: 07/24/2024 12:10

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 129.4(mL) | Date Analyzed: 08/04/2024 01:10

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.7	2.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.7	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.44
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.48
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.48
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.48
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1 -sulfonic acid (9Cl-PF3O	ND		1.9	0.48
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.48
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.48
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.9	0.97
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.7	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.7	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.48
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-339 0.5-1.5) | Lab Sample ID: 480-222079-10

Matrix: Solid (TCLP) | Lab File ID: ICAL_client_samples55.d

Analysis Method: 1633 | Date Collected: 07/24/2024 12:10

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 129.4(mL) | Date Analyzed: 08/04/2024 01:10

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	100		5-130
STL01893	13C5 PFPeA	106		40-130
STL02577	13C5 PFHxA	98.4		40-130
STL01892	13C4 PFHpA	98.2		40-130
STL01052	13C8 PFOA	109		40-130
STL02578	13C9 PFNA	103		40-130
STL02579	13C6 PFDA	101		40-130
STL02580	13C7 PFUnA	96.2		30-130
STL02116	13C2 PFTeDA	98.2		10-130
STL02337	13C3 PFBS	109		40-135
STL02581	13C3 PFHxS	106		40-130
STL01054	13C8 PFOS	107		40-130
STL01056	13C8 PFOSA	92.7		40-130
STL02118	d3-NMeFOSAA	98.9		40-170
STL02117	d5-NEtFOSAA	148	~~*~~	25-135
STL02395	M2-4:2 FTS	94.9		40-200
STL02279	M2-6:2 FTS	93.7		40-200
STL02280	M2-8:2 FTS	102		40-300
STL02255	13C3 HFPO-DA	97.3		40-130
STL02277	d7-N-MeFOSE-M	83.7		10-130
STL02278	d9-N-EtFOSE-M	77.8		10-130
STL02704	d5-NEtPFOSA	69.8		10-130
STL02705	D3-NMeFOSA	71.3		10-130
STL02703	13C2-PFDoDA	102		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-339 0.5-1.5) | Lab Sample ID: 480-222079-10

Matrix: Solid (TCLP) | Lab File ID: open17.d

Analysis Method: 1633 | Date Collected: 07/24/2024 12:10

Extraction Method: 1633 | Date Extracted: 08/02/2024 12:49

Sample wt/vol: 129.4(mL) | Date Analyzed: 08/13/2024 12:19

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 623194 | Units: ng/L

Preparation Batch No.: 622147 | Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-95-1	Perfluorononanoic acid (PFNA)	1.7	J	1.9	0.48

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	97.8		5-130
STL01893	13C5 PFPeA	110		40-130
STL02577	13C5 PFHxA	106		40-130
STL01892	13C4 PFHpA	105		40-130
STL01052	13C8 PFOA	112		40-130
STL02578	13C9 PFNA	102		40-130
STL02579	13C6 PFDA	97.4		40-130
STL02580	13C7 PFUnA	53.9		30-130
STL02116	13C2 PFTeDA	87.1		10-130
STL02337	13C3 PFBS	111		40-135
STL02581	13C3 PFHxS	106		40-130
STL01054	13C8 PFOS	110		40-130
STL01056	13C8 PFOSA	90.1		40-130
STL02118	d3-NMeFOSAA	93.5		40-170
STL02117	d5-NEtFOSAA	92.3		25-135
STL02395	M2-4:2 FTS	99.7		40-200
STL02279	M2-6:2 FTS	95.1		40-200
STL02280	M2-8:2 FTS	100		40-300
STL02255	13C3 HFPO-DA	96.1		40-130
STL02277	d7-N-MeFOSE-M	71.3		10-130
STL02278	d9-N-EtFOSE-M	63.7		10-130
STL02704	d5-NEtPFOSA	63.0		10-130
STL02705	D3-NMeFOSA	67.9		10-130
STL02703	13C2-PFDoDA	93.3		10-130

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-339 0.5-1.5) Lab Sample ID: 480-222079-10

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples39.d

Analysis Method: 1633 Date Collected: 07/24/2024 12:10

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 132.4(mL) Date Analyzed: 08/03/2024 20:44

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		3.8	0.94
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.2	J	1.9	0.57
307-24-4	Perfluorohexanoic acid (PFHxA)	1.3	J	1.9	0.47
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.0	J	1.9	0.48
335-67-1	Perfluorooctanoic acid (PFOA)	1.3	J	1.9	0.51
375-95-1	Perfluorononanoic acid (PFNA)	2.5		1.9	0.47
335-76-2	Perfluorodecanoic acid (PFDA)	2.6		1.9	0.47
2058-94-8	Perfluoroundecanoic acid (PFUnA)	3.5		1.9	0.47
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.47
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.47
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.47
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.47
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.47
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.90	J	1.9	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.47
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	24		1.9	0.47
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.47
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.47
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.8	1.1
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.8	0.97
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.8	J	3.8	0.94
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.47
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.47
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.63

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PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-339 0.5-1.5) Lab Sample ID: 480-222079-10

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples39.d

Analysis Method: 1633 Date Collected: 07/24/2024 12:10

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 132.4(mL) Date Analyzed: 08/03/2024 20:44

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.47
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		9.4	2.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		9.4	2.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.4	0.43
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9	0.47
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9	0.47
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	ND		1.9	0.47
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	ND		1.9	0.47
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9	0.47
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.8	0.94
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		9.4	2.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		9.4	2.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.47
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9	0.47

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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SPLP

Lab Name: Eurofins Cleveland Job No.: 480-222079-1

SDG No.:

Client Sample ID: DCFTC-SB-339 0.5-1.5) Lab Sample ID: 480-222079-10

Matrix: Solid (SPLP East) Lab File ID: ICAL_client_samples39.d

Analysis Method: 1633 Date Collected: 07/24/2024 12:10

Extraction Method: 1633 Date Extracted: 08/02/2024 12:37

Sample wt/vol: 132.4(mL) Date Analyzed: 08/03/2024 20:44

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 622204 Units: ng/L

Preparation Batch No.: 622146 Instrument ID: Sciex 5500+

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	106		5-130
STL01893	13C5 PFPeA	110		40-130
STL02577	13C5 PFHxA	109		40-130
STL01892	13C4 PFHpA	107		40-130
STL01052	13C8 PFOA	117		40-130
STL02578	13C9 PFNA	110		40-130
STL02579	13C6 PFDA	101		40-130
STL02580	13C7 PFUnA	98.9		30-130
STL02116	13C2 PFTeDA	91.7		10-130
STL02337	13C3 PFBS	113		40-135
STL02581	13C3 PFHxS	114		40-130
STL01054	13C8 PFOS	113		40-130
STL01056	13C8 PFOSA	98.3		40-130
STL02118	d3-NMeFOSAA	101		40-170
STL02117	d5-NEtFOSAA	145	~~*~~	25-135
STL02395	M2-4:2 FTS	110		40-200
STL02279	M2-6:2 FTS	99.7		40-200
STL02280	M2-8:2 FTS	107		40-300
STL02255	13C3 HFPO-DA	103		40-130
STL02277	d7-N-MeFOSE-M	67.7		10-130
STL02278	d9-N-EtFOSE-M	60.7		10-130
STL02704	d5-NEtPFOSA	74.8		10-130
STL02705	D3-NMeFOSA	76.3		10-130
STL02703	13C2-PFDoDA	99.8		10-130

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-223595-1
Laboratory: Eurofins, Buffalo, New York, Cleveland, Ohio
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: November 9, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-EB-04	480-223595-1	Water
2	DCFTC-EB-05	480-223595-2	Water
3	DCFTC-BMW-104(0-0.5)	480-223595-3	Soil
4	DCFTC-BMW-104(0.5-1.5)	480-223595-4	Soil
4MS	DCFTC-BMW-104(0.5-1.5)MS	480-223595-4MS	Soil
4MSD	DCFTC-BMW-104(0.5-1.5)MSD	480-223595-4MSD	Soil
5	DCFTC-BMW-104(5-7)	480-223595-5	Soil
6	DCFTC-DUP-08	480-223595-6	Soil
7	DCFTC-BMW-104(7-7.5)	480-223595-7	Soil
8	DCFTC-BMW-105(0-0.5)	480-223595-8	Soil
9	DCFTC-BMW-105(0.5-1.5)	480-223595-9	Soil
10	DCFTC-BMW-105(4-6)	480-223595-10	Soil
11	DCFTC-BMW-105(6-7)	480-223595-11	Soil
12	DCFTC-BMW-103(9-10)	480-223595-12	Soil
13	DCFTC-EB-06	480-223595-13	Water

A Data Usability Summary Review was performed on the analytical data for ten soil samples and three aqueous equipment blank samples collected on September 6-17, 2024 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Environmental Samples by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	USEPA Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the New York State Department of Environmental Conservation (NYSDEC) Data Review Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All samples were extracted within 14 days for water samples, 28 days for soil samples, and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The field QC samples exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
DCFTC-EB-04	None - ND	-	-	-
DCFTC-EB-05	None - ND	-	-	-
DCFTC-EB-06	PFHxA	0.44	None	All Associated ND

Surrogate Spike Recoveries

- Several samples exhibited high surrogate recoveries, however, all associated compounds were non-detect and no qualifications were required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples (LCS)

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	DCFTC-BMW-104(0.5-1.5) ug/kg	DCFTC-DUP-08 ug/kg	RPD	Qualifier
PFBA	0.23	0.21	9%	None
PFPeA	0.14	0.14	0%	
PFHxA	0.15	0.15	0%	
PFHpA	0.12	0.087	32%	
PFOA	0.59	0.34	54%	None - <5X RL
PFNA	0.092	ND	NC	None
PFBS	0.077	0.076	1%	
PFHxS	ND	0.095	NC	
PFOS	0.19	0.15	24%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/13/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-EB-04 | Lab Sample ID: 480-223595-1

Matrix: Water | Lab File ID: 2024_09_26Asolidinj39.d

Analysis Method: 1633 | Date Collected: 09/06/2024 07:15

Extraction Method: 1633 | Date Extracted: 09/26/2024 08:42

Sample wt/vol: 151.5(mL) | Date Analyzed: 09/26/2024 19:21

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628559 | Units: ng/L

Preparation Batch No.: 628503 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		6.6	1.8
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.3	0.83
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.41
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.7	0.41
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.41
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.41
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.41
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.7	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.41
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.41
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.43
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.41
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.41
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.41
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.41
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.6	1.7
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.6	1.7
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.6	1.7
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.41
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.41
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.41
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.51

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-EB-04 | Lab Sample ID: 480-223595-1

Matrix: Water | Lab File ID: 2024_09_26Asolidinj39.d

Analysis Method: 1633 | Date Collected: 09/06/2024 07:15

Extraction Method: 1633 | Date Extracted: 09/26/2024 08:42

Sample wt/vol: 151.5(mL) | Date Analyzed: 09/26/2024 19:21

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628559 | Units: ng/L

Preparation Batch No.: 628503 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.43
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	4.1
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		17	4.1
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.6	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.6	1.7
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.3	0.83
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.3	1.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.6	1.7
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.6	1.7
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.3	0.83
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.3	2.1
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		41	10
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		41	12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.3	0.83

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-EB-05 | Lab Sample ID: 480-223595-2

Matrix: Water | Lab File ID: 2024_09_26Asolidinj42.d

Analysis Method: 1633 | Date Collected: 09/12/2024 15:45

Extraction Method: 1633 | Date Extracted: 09/26/2024 08:42

Sample wt/vol: 153(mL) | Date Analyzed: 09/26/2024 20:02

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628559 | Units: ng/L

Preparation Batch No.: 628503 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		6.5	1.7
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.3	0.82
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.41
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.6	0.41
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.41
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.41
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.41
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.41
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.41
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.42
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.41
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.41
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.41
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.41
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.5	1.6
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.5	1.6
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.5	1.6
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.41
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.41
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.41
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.51

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-EB-05 | Lab Sample ID: 480-223595-2

Matrix: Water | Lab File ID: 2024_09_26Asolidinj42.d

Analysis Method: 1633 | Date Collected: 09/12/2024 15:45

Extraction Method: 1633 | Date Extracted: 09/26/2024 08:42

Sample wt/vol: 153(mL) | Date Analyzed: 09/26/2024 20:02

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628559 | Units: ng/L

Preparation Batch No.: 628503 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.43
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		16	4.1
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		16	4.1
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.5	1.6
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.5	1.6
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.3	0.82
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.3	1.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.5	1.6
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.5	1.6
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.3	0.82
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.2	2.0
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		41	10
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		41	12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.41
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.3	0.82

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(0-0.5) Lab Sample ID: 480-223595-3

Matrix: Solid Lab File ID: 2024_09_27solidinj20.d

Analysis Method: 1633 Date Collected: 09/11/2024 09:20

Extraction Method: 1633 Shake Date Extracted: 09/25/2024 14:46

Sample wt/vol: 1.53(g) Date Analyzed: 09/27/2024 12:33

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 29.6 % Solids: 70.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628692 Units: ug/Kg

Preparation Batch No.: 628451 Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.30	J	0.93	0.23
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.14	J	0.46	0.12
307-24-4	Perfluorohexanoic acid (PFHxA)	0.11	J	0.23	0.058
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.16	J	0.23	0.058
335-67-1	Perfluorooctanoic acid (PFOA)	0.48		0.23	0.058
375-95-1	Perfluorononanoic acid (PFNA)	0.43		0.23	0.058
335-76-2	Perfluorodecanoic acid (PFDA)	0.15	J	0.23	0.058
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.17	J	0.23	0.058
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.058
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.23	0.058
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.23	0.058
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.058
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.23	0.058
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.23	0.058
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23	0.058
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.76		0.23	0.058
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.23	0.058
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.23	0.058
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.93	0.23
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.93	0.23
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.93	0.23
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.058
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.23	0.058
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.23	0.058
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.23	0.058

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(0-0.5) | Lab Sample ID: 480-223595-3

Matrix: Solid | Lab File ID: 2024_09_27solidinj20.d

Analysis Method: 1633 | Date Collected: 09/11/2024 09:20

Extraction Method: 1633 Shake | Date Extracted: 09/25/2024 14:46

Sample wt/vol: 1.53(g) | Date Analyzed: 09/27/2024 12:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 29.6 % Solids: 70.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628692 | Units: ug/Kg

Preparation Batch No.: 628451 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.23	0.058
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.3	0.58
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.3	0.58
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.93	0.23
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.93	0.23
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.46	0.12
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.46	0.12
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.93	0.23
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.93	0.23
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.46	0.12
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		1.2	0.29
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.8	1.5
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.8	1.5
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.058
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.46	0.12

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(0-0.5) Lab Sample ID: 480-223595-3

Matrix: Solid Lab File ID: 2024_09_27solidinj20.d

Analysis Method: 1633 Date Collected: 09/11/2024 09:20

Extraction Method: 1633 Shake Date Extracted: 09/25/2024 14:46

Sample wt/vol: 1.53(g) Date Analyzed: 09/27/2024 12:33

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 29.6 % Solids: 70.4 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628692 Units: ug/Kg

Preparation Batch No.: 628451 Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	79.8		20-150
STL01893	13C5 PFPeA	74.5		20-150
STL02577	13C5 PFHxA	72.7		20-150
STL01892	13C4 PFHpA	75.3		20-150
STL01052	13C8 PFOA	79.6		20-150
STL02578	13C9 PFNA	76.5		20-150
STL02579	13C6 PFDA	101		20-150
STL02580	13C7 PFUnA	92.3		20-150
STL02116	13C2 PFTeDA	88.8		20-150
STL02337	13C3 PFBS	98.9		20-150
STL02581	13C3 PFHxS	89.9		20-150
STL01054	13C8 PFOS	87.4		20-150
STL01056	13C8 FOSA	87.5		20-150
STL02118	d3-NMeFOSAA	110		20-150
STL02117	d5-NEtFOSAA	104		20-150
STL02395	M2-4:2 FTS	165	*5+	20-150
STL02279	M2-6:2 FTS	150		20-150
STL02280	M2-8:2 FTS	154	*5+	20-150
STL02255	13C3 HFPO-DA	80.7		20-150
STL02277	d7-N-MeFOSE-M	88.3		20-150
STL02278	d9-N-EtFOSE-M	91.5		20-150
STL02704	d5-NEtPFOSA	74.3		20-150
STL02705	d3-NMePFOSA	77.7		20-150
STL02703	13C2-PFDoDA	92.6		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(0.5-1.5) | Lab Sample ID: 480-223595-4

Matrix: Solid | Lab File ID: 2024_09_27solidinj21.d

Analysis Method: 1633 | Date Collected: 09/11/2024 09:25

Extraction Method: 1633 Shake | Date Extracted: 09/25/2024 14:46

Sample wt/vol: 1.50(g) | Date Analyzed: 09/27/2024 12:47

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 27.8 % Solids: 72.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628692 | Units: ug/Kg

Preparation Batch No.: 628451 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.23	J	0.92	0.23
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.14	J	0.46	0.12
307-24-4	Perfluorohexanoic acid (PFHxA)	0.15	J	0.23	0.058
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.12	J	0.23	0.058
335-67-1	Perfluorooctanoic acid (PFOA)	0.59		0.23	0.058
375-95-1	Perfluorononanoic acid (PFNA)	0.092	J	0.23	0.058
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.23	0.058
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.058
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.058
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.23	0.058
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.23	0.058
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.077	J	0.23	0.058
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.23	0.058
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.23	0.058
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23	0.058
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.19	J	0.23	0.058
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.23	0.058
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.23	0.058
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.92	0.23
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.92	0.23
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.92	0.23
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.058
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.23	0.058
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.23	0.058
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.23	0.058

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(0.5-1.5) | Lab Sample ID: 480-223595-4

Matrix: Solid | Lab File ID: 2024_09_27solidinj21.d

Analysis Method: 1633 | Date Collected: 09/11/2024 09:25

Extraction Method: 1633 Shake | Date Extracted: 09/25/2024 14:46

Sample wt/vol: 1.50(g) | Date Analyzed: 09/27/2024 12:47

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 27.8 % Solids: 72.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628692 | Units: ug/Kg

Preparation Batch No.: 628451 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.23	0.058
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.3	0.58
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.3	0.58
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.92	0.23
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.92	0.23
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.46	0.12
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.46	0.12
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.92	0.23
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.92	0.23
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.46	0.12
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		1.2	0.29
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.8	1.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.8	1.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.058
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.46	0.12

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PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(0.5-1.5) | Lab Sample ID: 480-223595-4

Matrix: Solid | Lab File ID: 2024_09_27solidinj21.d

Analysis Method: 1633 | Date Collected: 09/11/2024 09:25

Extraction Method: 1633 Shake | Date Extracted: 09/25/2024 14:46

Sample wt/vol: 1.50(g) | Date Analyzed: 09/27/2024 12:47

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 27.8 % Solids: 72.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628692 | Units: ug/Kg

Preparation Batch No.: 628451 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	89.3		20-150
STL01893	13C5 PFPeA	83.8		20-150
STL02577	13C5 PFHxA	80.1		20-150
STL01892	13C4 PFHpA	83.5		20-150
STL01052	13C8 PFOA	86.9		20-150
STL02578	13C9 PFNA	84.1		20-150
STL02579	13C6 PFDA	105		20-150
STL02580	13C7 PFUnA	100		20-150
STL02116	13C2 PFTeDA	93.0		20-150
STL02337	13C3 PFBS	113		20-150
STL02581	13C3 PFHxS	109		20-150
STL01054	13C8 PFOS	95.6		20-150
STL01056	13C8 FOSA	102		20-150
STL02118	d3-NMeFOSAA	124		20-150
STL02117	d5-NEtFOSAA	120		20-150
STL02395	M2-4:2 FTS	196	*5+	20-150
STL02279	M2-6:2 FTS	178	*5+	20-150
STL02280	M2-8:2 FTS	176	*5+	20-150
STL02255	13C3 HFPO-DA	92.5		20-150
STL02277	d7-N-MeFOSE-M	106		20-150
STL02278	d9-N-EtFOSE-M	109		20-150
STL02704	d5-NEtPFOSA	87.2		20-150
STL02705	d3-NMePFOSA	90.4		20-150
STL02703	13C2-PFDoDA	98.0		20-150

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(5-7) | Lab Sample ID: 480-223595-5

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj11.d

Analysis Method: 1633 | Date Collected: 09/11/2024 09:45

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.55(g) | Date Analyzed: 09/27/2024 19:06

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 20.5 % Solids: 79.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.81	0.20
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.41	0.10
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.20	0.051
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.054	J	0.20	0.051
335-67-1	Perfluorooctanoic acid (PFOA)	0.16	J	0.20	0.051
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.20	0.051
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.20	0.051
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.20	0.051
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.20	0.051
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.20	0.051
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.20	0.051
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.20	0.051
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.20	0.051
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.20	0.051
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20	0.051
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.13	J	0.20	0.051
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.20	0.051
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.20	0.051
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.81	0.20
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.81	0.20
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.81	0.20
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.20	0.051
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.20	0.051
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.20	0.051
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.20	0.051

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(5-7) | Lab Sample ID: 480-223595-5

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj11.d

Analysis Method: 1633 | Date Collected: 09/11/2024 09:45

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.55(g) | Date Analyzed: 09/27/2024 19:06

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 20.5 % Solids: 79.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.20	0.051
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.0	0.51
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.0	0.51
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.81	0.20
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.81	0.20
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.41	0.10
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.41	0.10
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.81	0.20
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.81	0.20
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.41	0.10
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		1.0	0.25
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.1	1.3
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.1	1.3
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.20	0.051
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.41	0.10

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(5-7) | Lab Sample ID: 480-223595-5

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj11.d

Analysis Method: 1633 | Date Collected: 09/11/2024 09:45

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.55(g) | Date Analyzed: 09/27/2024 19:06

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 20.5 % Solids: 79.5 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	81.2		20-150
STL01893	13C5 PFPeA	78.2		20-150
STL02577	13C5 PFHxA	75.8		20-150
STL01892	13C4 PFHpA	77.5		20-150
STL01052	13C8 PFOA	81.3		20-150
STL02578	13C9 PFNA	78.4		20-150
STL02579	13C6 PFDA	104		20-150
STL02580	13C7 PFUnA	103		20-150
STL02116	13C2 PFTeDA	89.0		20-150
STL02337	13C3 PFBS	101		20-150
STL02581	13C3 PFHxS	94.8		20-150
STL01054	13C8 PFOS	87.9		20-150
STL01056	13C8 FOSA	88.9		20-150
STL02118	d3-NMeFOSAA	104		20-150
STL02117	d5-NEtFOSAA	103		20-150
STL02395	M2-4:2 FTS	179	~~*5+~~	20-150
STL02279	M2-6:2 FTS	150		20-150
STL02280	M2-8:2 FTS	143		20-150
STL02255	13C3 HFPO-DA	87.3		20-150
STL02277	d7-N-MeFOSE-M	94.6		20-150
STL02278	d9-N-EtFOSE-M	95.7		20-150
STL02704	d5-NEtPFOSA	72.0		20-150
STL02705	d3-NMePFOSA	77.7		20-150
STL02703	13C2-PFDoDA	90.9		20-150

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-DUP-08 | Lab Sample ID: 480-223595-6

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj12.d

Analysis Method: 1633 | Date Collected: 09/11/2024 12:00

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.56(g) | Date Analyzed: 09/27/2024 19:19

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 16.9 % Solids: 83.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.21	J	0.77	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.14	J	0.39	0.096
307-24-4	Perfluorohexanoic acid (PFHxA)	0.15	J	0.19	0.048
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.087	J	0.19	0.048
335-67-1	Perfluorooctanoic acid (PFOA)	0.34		0.19	0.048
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.19	0.048
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.19	0.048
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.048
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.048
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.076	J	0.19	0.048
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.048
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.095	J	0.19	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.15	J	0.19	0.048
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.048
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.048
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.77	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.77	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.77	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.048
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.048
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.048
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.048

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6

Lab Name: Eurofins Cleveland Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-DUP-08 Lab Sample ID: 480-223595-6

Matrix: Solid Lab File ID: 2024_09_27solidwatinj12.d

Analysis Method: 1633 Date Collected: 09/11/2024 12:00

Extraction Method: 1633 Shake Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.56(g) Date Analyzed: 09/27/2024 19:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 16.9 % Solids: 83.1 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 Units: ug/Kg

Preparation Batch No.: 628673 Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.048
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.77	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.77	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.39	0.096
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.39	0.096
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.77	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.77	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.39	0.096
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.96	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.8	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.8	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.39	0.096

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(7-7.5) | Lab Sample ID: 480-223595-7

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj13.d

Analysis Method: 1633 | Date Collected: 09/13/2024 12:30

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.52(g) | Date Analyzed: 09/27/2024 19:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 15.1 % Solids: 84.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.77	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.39	0.097
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.19	0.048
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.048
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.19	0.048
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.19	0.048
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.19	0.048
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.048
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.048
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.048
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.048
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.048
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.048
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.048
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.77	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.77	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.77	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.048
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.048
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.048
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.048

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PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-104(7-7.5) | Lab Sample ID: 480-223595-7

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj13.d

Analysis Method: 1633 | Date Collected: 09/13/2024 12:30

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.52(g) | Date Analyzed: 09/27/2024 19:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 15.1 % Solids: 84.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.048
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.77	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.77	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.39	0.097
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.39	0.097
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.77	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.77	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.39	0.097
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.97	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.8	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.8	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.19	0.048
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.39	0.097

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(0-0.5) | Lab Sample ID: 480-223595-8

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj14.d

Analysis Method: 1633 | Date Collected: 09/11/2024 10:20

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.45(g) | Date Analyzed: 09/27/2024 19:46

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 16.1 % Solids: 83.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.82	0.21
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.41	0.10
307-24-4	Perfluorohexanoic acid (PFHxA)	0.062	J	0.21	0.051
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.074	J	0.21	0.051
335-67-1	Perfluorooctanoic acid (PFOA)	0.45		0.21	0.051
375-95-1	Perfluorononanoic acid (PFNA)	0.29		0.21	0.051
335-76-2	Perfluorodecanoic acid (PFDA)	0.060	J	0.21	0.051
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.067	J	0.21	0.051
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.21	0.051
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.21	0.051
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.21	0.051
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.21	0.051
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.21	0.051
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.21	0.051
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21	0.051
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.36		0.21	0.051
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.21	0.051
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.21	0.051
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.82	0.21
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.82	0.21
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.82	0.21
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.21	0.051
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.21	0.051
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.21	0.051
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.21	0.051

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(0-0.5) | Lab Sample ID: 480-223595-8

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj14.d

Analysis Method: 1633 | Date Collected: 09/11/2024 10:20

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.45(g) | Date Analyzed: 09/27/2024 19:46

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 16.1 % Solids: 83.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.21	0.051
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.1	0.51
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.1	0.51
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.82	0.21
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.82	0.21
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.41	0.10
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.41	0.10
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.82	0.21
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.82	0.21
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.41	0.10
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		1.0	0.26
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.1	1.3
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.1	1.3
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.21	0.051
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.41	0.10

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(0.5-1.5) | Lab Sample ID: 480-223595-9

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj15.d

Analysis Method: 1633 | Date Collected: 09/11/2024 10:25

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.56(g) | Date Analyzed: 09/27/2024 20:00

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 28.4 % Solids: 71.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.90	0.22
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.45	0.11
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.056
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.079	J	0.22	0.056
335-67-1	Perfluorooctanoic acid (PFOA)	0.53		0.22	0.056
375-95-1	Perfluorononanoic acid (PFNA)	0.12	J	0.22	0.056
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.056
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.056
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.056
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.22	0.056
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.22	0.056
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.056
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.22	0.056
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.056
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.056
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	J	0.22	0.056
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.22	0.056
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.22	0.056
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.90	0.22
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.90	0.22
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.90	0.22
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.056
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.22	0.056
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.22	0.056
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.22	0.056

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(0.5-1.5) Lab Sample ID: 480-223595-9

Matrix: Solid Lab File ID: 2024_09_27solidwatinj15.d

Analysis Method: 1633 Date Collected: 09/11/2024 10:25

Extraction Method: 1633 Shake Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.56(g) Date Analyzed: 09/27/2024 20:00

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 28.4 % Solids: 71.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 Units: ug/Kg

Preparation Batch No.: 628673 Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.22	0.056
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.2	0.56
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.2	0.56
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.90	0.22
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.90	0.22
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.45	0.11
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.45	0.11
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.90	0.22
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.90	0.22
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.45	0.11
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		1.1	0.28
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.6	1.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.6	1.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.056
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.45	0.11

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(0.5-1.5) Lab Sample ID: 480-223595-9

Matrix: Solid Lab File ID: 2024_09_27solidwatinj15.d

Analysis Method: 1633 Date Collected: 09/11/2024 10:25

Extraction Method: 1633 Shake Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.56(g) Date Analyzed: 09/27/2024 20:00

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: 28.4 % Solids: 71.6 GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 Units: ug/Kg

Preparation Batch No.: 628673 Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	78.1		20-150
STL01893	13C5 PFPeA	73.3		20-150
STL02577	13C5 PFHxA	70.4		20-150
STL01892	13C4 PFHpA	73.9		20-150
STL01052	13C8 PFOA	75.7		20-150
STL02578	13C9 PFNA	81.3		20-150
STL02579	13C6 PFDA	93.6		20-150
STL02580	13C7 PFUnA	90.9		20-150
STL02116	13C2 PFTeDA	81.9		20-150
STL02337	13C3 PFBS	94.1		20-150
STL02581	13C3 PFHxS	89.5		20-150
STL01054	13C8 PFOS	80.9		20-150
STL01056	13C8 FOSA	76.9		20-150
STL02118	d3-NMeFOSAA	90.0		20-150
STL02117	d5-NEtFOSAA	88.8		20-150
STL02395	M2-4:2 FTS	155	~~5+~~	20-150
STL02279	M2-6:2 FTS	139		20-150
STL02280	M2-8:2 FTS	133		20-150
STL02255	13C3 HFPO-DA	79.2		20-150
STL02277	d7-N-MeFOSE-M	85.1		20-150
STL02278	d9-N-EtFOSE-M	84.9		20-150
STL02704	d5-NEtPFOSA	66.8		20-150
STL02705	d3-NMePFOSA	71.2		20-150
STL02703	13C2-PFDoDA	85.0		20-150

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(4-6) | Lab Sample ID: 480-223595-10

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj18.d

Analysis Method: 1633 | Date Collected: 09/11/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.48(g) | Date Analyzed: 09/27/2024 20:41

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 23.4 % Solids: 76.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.88	0.22
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.44	0.11
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.22	0.055
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.22	0.055
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.22	0.055
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.22	0.055
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.22	0.055
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.22	0.055
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.22	0.055
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.22	0.055
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.22	0.055
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.22	0.055
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.22	0.055
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.22	0.055
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22	0.055
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.22	0.055
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.22	0.055
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.22	0.055
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.88	0.22
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.88	0.22
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.88	0.22
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.22	0.055
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.22	0.055
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.22	0.055
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.22	0.055

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(4-6) | Lab Sample ID: 480-223595-10

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj18.d

Analysis Method: 1633 | Date Collected: 09/11/2024 10:45

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.48(g) | Date Analyzed: 09/27/2024 20:41

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 23.4 % Solids: 76.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.22	0.055
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.2	0.55
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.2	0.55
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.88	0.22
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.88	0.22
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.44	0.11
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.44	0.11
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.88	0.22
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.88	0.22
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.44	0.11
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		1.1	0.28
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.5	1.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.5	1.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.22	0.055
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.44	0.11

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PFAS ORGANICS ANALYSIS DATA SHEET

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Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(6-7) | Lab Sample ID: 480-223595-11

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj19.d

Analysis Method: 1633 | Date Collected: 09/13/2024 08:30

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.50(g) | Date Analyzed: 09/27/2024 20:54

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 26.1 % Solids: 73.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.90	0.23
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.45	0.11
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.23	0.056
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.23	0.056
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.23	0.056
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.23	0.056
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.23	0.056
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.23	0.056
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.23	0.056
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.23	0.056
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.23	0.056
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.23	0.056
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.23	0.056
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.23	0.056
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23	0.056
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.23	0.056
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.23	0.056
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.23	0.056
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.90	0.23
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.90	0.23
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.90	0.23
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.23	0.056
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.23	0.056
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.23	0.056
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.23	0.056

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(6-7) | Lab Sample ID: 480-223595-11

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj19.d

Analysis Method: 1633 | Date Collected: 09/13/2024 08:30

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.50(g) | Date Analyzed: 09/27/2024 20:54

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 26.1 % Solids: 73.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.23	0.056
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		2.3	0.56
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		2.3	0.56
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.90	0.23
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.90	0.23
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.45	0.11
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.45	0.11
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.90	0.23
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.90	0.23
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.45	0.11
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		1.1	0.28
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		5.6	1.4
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		5.6	1.4
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.23	0.056
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.45	0.11

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

11

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-105(6-7) | Lab Sample ID: 480-223595-11

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj19.d

Analysis Method: 1633 | Date Collected: 09/13/2024 08:30

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.50(g) | Date Analyzed: 09/27/2024 20:54

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 26.1 % Solids: 73.9 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	83.9		20-150
STL01893	13C5 PFPeA	76.3		20-150
STL02577	13C5 PFHxA	77.1		20-150
STL01892	13C4 PFHpA	80.0		20-150
STL01052	13C8 PFOA	80.5		20-150
STL02578	13C9 PFNA	84.2		20-150
STL02579	13C6 PFDA	106		20-150
STL02580	13C7 PFUnA	104		20-150
STL02116	13C2 PFTeDA	90.8		20-150
STL02337	13C3 PFBS	104		20-150
STL02581	13C3 PFHxS	91.9		20-150
STL01054	13C8 PFOS	88.4		20-150
STL01056	13C8 FOSA	94.5		20-150
STL02118	d3-NMeFOSAA	109		20-150
STL02117	d5-NEtFOSAA	104		20-150
STL02395	M2-4:2 FTS	177	~~*5+~~	20-150
STL02279	M2-6:2 FTS	156	~~*5+~~	20-150
STL02280	M2-8:2 FTS	142		20-150
STL02255	13C3 HFPO-DA	86.2		20-150
STL02277	d7-N-MeFOSE-M	103		20-150
STL02278	d9-N-EtFOSE-M	105		20-150
STL02704	d5-NEtPFOSA	76.8		20-150
STL02705	d3-NMePFOSA	85.1		20-150
STL02703	13C2-PFDoDA	97.6		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

12

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-103(9-10) | Lab Sample ID: 480-223595-12

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj20.d

Analysis Method: 1633 | Date Collected: 09/17/2024 12:30

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.46(g) | Date Analyzed: 09/27/2024 21:08

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.3 % Solids: 88.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.77	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.39	0.097
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.19	0.048
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.19	0.048
335-67-1	Perfluorooctanoic acid (PFOA)	0.095	J	0.19	0.048
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.19	0.048
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.19	0.048
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.19	0.048
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.19	0.048
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.19	0.048
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		0.19	0.048
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.19	0.048
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		0.19	0.048
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.19	0.048
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19	0.048
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.19	0.048
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		0.19	0.048
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.19	0.048
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		0.77	0.19
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		0.77	0.19
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		0.77	0.19
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.19	0.048
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		0.19	0.048
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		0.19	0.048
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.19	0.048

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

12

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-103(9-10) | Lab Sample ID: 480-223595-12

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj20.d

Analysis Method: 1633 | Date Collected: 09/17/2024 12:30

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.46(g) | Date Analyzed: 09/27/2024 21:08

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.3 % Solids: 88.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.19	0.048
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		1.9	0.48
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		1.9	0.48
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.77	0.19
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.77	0.19
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		0.39	0.097
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		0.39	0.097
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		0.77	0.19
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		0.77	0.19
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		0.39	0.097
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		0.97	0.24
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		4.8	1.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		4.8	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.46		0.19	0.048
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		0.39	0.097

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

12

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-BMW-103(9-10) | Lab Sample ID: 480-223595-12

Matrix: Solid | Lab File ID: 2024_09_27solidwatinj20.d

Analysis Method: 1633 | Date Collected: 09/17/2024 12:30

Extraction Method: 1633 Shake | Date Extracted: 09/27/2024 08:09

Sample wt/vol: 1.46(g) | Date Analyzed: 09/27/2024 21:08

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: 11.3 % Solids: 88.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628811 | Units: ug/Kg

Preparation Batch No.: 628673 | Instrument ID: LCMS03

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	75.9		20-150
STL01893	13C5 PFPeA	69.9		20-150
STL02577	13C5 PFHxA	68.2		20-150
STL01892	13C4 PFHpA	69.7		20-150
STL01052	13C8 PFOA	75.7		20-150
STL02578	13C9 PFNA	76.2		20-150
STL02579	13C6 PFDA	85.1		20-150
STL02580	13C7 PFUnA	85.2		20-150
STL02116	13C2 PFTeDA	73.8		20-150
STL02337	13C3 PFBS	90.0		20-150
STL02581	13C3 PFHxS	79.9		20-150
STL01054	13C8 PFOS	77.6		20-150
STL01056	13C8 FOSA	81.7		20-150
STL02118	d3-NMeFOSAA	105		20-150
STL02117	d5-NEtFOSAA	100		20-150
STL02395	M2-4:2 FTS	154	+5+	20-150
STL02279	M2-6:2 FTS	152	+5+	20-150
STL02280	M2-8:2 FTS	118		20-150
STL02255	13C3 HFPO-DA	80.3		20-150
STL02277	d7-N-MeFOSE-M	88.7		20-150
STL02278	d9-N-EtFOSE-M	89.8		20-150
STL02704	d5-NEtPFOSA	70.4		20-150
STL02705	d3-NMePFOSA	73.1		20-150
STL02703	13C2-PFDoDA	74.9		20-150

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

13

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-EB-06 | Lab Sample ID: 480-223595-13

Matrix: Water | Lab File ID: 2024_09_26Asolidinj43.d

Analysis Method: 1633 | Date Collected: 09/17/2024 12:00

Extraction Method: 1633 | Date Extracted: 09/26/2024 08:42

Sample wt/vol: 150.9(mL) | Date Analyzed: 09/26/2024 20:15

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628559 | Units: ng/L

Preparation Batch No.: 628503 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		6.6	1.8
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.3	0.83
307-24-4	Perfluorohexanoic acid (PFHxA)	0.44	J	1.7	0.41
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.7	0.41
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.41
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.41
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.41
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.7	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.41
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.41
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.43
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.41
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.41
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.41
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.41
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.6	1.7
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.6	1.7
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.6	1.7
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.41
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.41
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.41
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.51

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

13

Lab Name: Eurofins Cleveland | Job No.: 480-223595-1

SDG No.:

Client Sample ID: DCFTC-EB-06 | Lab Sample ID: 480-223595-13

Matrix: Water | Lab File ID: 2024_09_26Asolidinj43.d

Analysis Method: 1633 | Date Collected: 09/17/2024 12:00

Extraction Method: 1633 | Date Extracted: 09/26/2024 08:42

Sample wt/vol: 150.9(mL) | Date Analyzed: 09/26/2024 20:15

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 628559 | Units: ng/L

Preparation Batch No.: 628503 | Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.43
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	4.1
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		17	4.1
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.6	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.6	1.7
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.3	0.83
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.3	1.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.6	1.7
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.6	1.7
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.3	0.83
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.3	2.1
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		41	10
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		41	12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.3	0.83

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-223813-1
Laboratory: Eurofins, Buffalo, New York, Cleveland, Ohio
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: November 9, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-EB-07	480-223813-1	Water
2	DCFTC-EB-08	480-223813-2	Water

A Data Usability Summary Review was performed on the analytical data for two aqueous equipment blank samples collected on September 24-26, 2024 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Environmental Samples by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	USEPA Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the New York State Department of Environmental Conservation (NYSDEC) Data Review Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries

- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The field QC samples exhibited the following contamination.

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
DCFTC-EB-07	None - ND	-	-	-
DCFTC-EB-08	PFHxA	0.41	None	Applies to other packages

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples (LCS)

- The LCS samples exhibited acceptable percent recoveries (%R) except for the following.

LCS ID	Compound	LCS %R	Qualifier	Affected Samples
240-629918/3-A	PFTeDA	163%	None	All Associated ND

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/13/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland | Job No.: 480-223813-1

SDG No.:

Client Sample ID: DCFTC-EB-07 | Lab Sample ID: 480-223813-1

Matrix: Water | Lab File ID: 2024_10_07waterinj11.d

Analysis Method: 1633 | Date Collected: 09/24/2024 13:30

Extraction Method: 1633 | Date Extracted: 10/07/2024 10:23

Sample wt/vol: 169.6(mL) | Date Analyzed: 10/07/2024 18:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 629819 | Units: ng/L

Preparation Batch No.: 629759 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		5.9	1.6
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.9	0.74
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.5	0.37
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.37
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.5	0.37
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.5	0.37
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.5	0.37
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.5	0.37
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.37
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.37
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.38
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.37
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.37
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		5.9	1.5
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		5.9	1.5
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		5.9	1.5
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.46

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-223813-1

SDG No.:

Client Sample ID: DCFTC-EB-07 | Lab Sample ID: 480-223813-1

Matrix: Water | Lab File ID: 2024_10_07waterinj11.d

Analysis Method: 1633 | Date Collected: 09/24/2024 13:30

Extraction Method: 1633 | Date Extracted: 10/07/2024 10:23

Sample wt/vol: 169.6(mL) | Date Analyzed: 10/07/2024 18:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 629819 | Units: ng/L

Preparation Batch No.: 629759 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.38
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		15	3.7
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		15	3.7
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		5.9	1.5
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		5.9	1.5
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.9	0.74
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.9	0.90
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		5.9	1.5
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		5.9	1.5
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.9	0.74
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.4	1.8
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		37	9.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		37	11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.9	0.74

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland Job No.: 480-223813-1

SDG No.:

Client Sample ID: DCFTC-EB-08 Lab Sample ID: 480-223813-2

Matrix: Water Lab File ID: 2024_10_08waterinj19.d

Analysis Method: 1633 Date Collected: 09/26/2024 07:15

Extraction Method: 1633 Date Extracted: 10/08/2024 10:16

Sample wt/vol: 170.1(mL) Date Analyzed: 10/08/2024 19:33

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 629980 Units: ng/L

Preparation Batch No.: 629918 Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		5.9	1.6
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.9	0.73
307-24-4	Perfluorohexanoic acid (PFHxA)	0.41	J	1.5	0.37
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.37
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.5	0.37
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.5	0.37
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.5	0.37
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.5	0.37
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.37
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.37
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.38
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.37
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.37
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		5.9	1.5
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		5.9	1.5
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		5.9	1.5
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.46

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-223813-1

SDG No.:

Client Sample ID: DCFTC-EB-08 | Lab Sample ID: 480-223813-2

Matrix: Water | Lab File ID: 2024_10_08waterinj19.d

Analysis Method: 1633 | Date Collected: 09/26/2024 07:15

Extraction Method: 1633 | Date Extracted: 10/08/2024 10:16

Sample wt/vol: 170.1(mL) | Date Analyzed: 10/08/2024 19:33

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 629980 | Units: ng/L

Preparation Batch No.: 629918 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.38
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		15	3.7
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		15	3.7
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		5.9	1.5
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		5.9	1.5
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.9	0.73
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.9	0.90
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		5.9	1.5
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		5.9	1.5
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.9	0.73
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.3	1.8
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		37	9.2
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		37	11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.9	0.73

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-226019-1
Laboratory: Eurofins, Cleveland, Ohio
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: May 12, 2025

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-BMW-101 (39-49)	480-226019-1	Water
2	DCFTC-BMW-101 (19-29)	480-226019-2	Water
3	DCFTC-BMW-101 (3-13)	480-226019-3	Water
4	DCFTC-BMW-102 (35-45)	480-226019-4	Water
5	DCFTC-BMW-102 (21-31)	480-226019-5	Water
6	DCFTC-BMW-103 (37-47)	480-226019-6	Water
7	DCFTC-BMW-103 (25-45)	480-226019-7	Water
8	DCFTC-BMW-105 (20-30)	480-226019-8	Water
9	DCFTC-BMW-105 (38-43)	480-226019-9	Water
9MS	DCFTC-BMW-105 (38-43)MS	480-226019-9MS	Water
9MSD	DCFTC-BMW-105 (38-43)MSD	480-226019-9MSD	Water
10	DCFTC-PT-DUP-01	480-226019-10	Water

A Data Usability Summary Review was performed on the analytical data for ten water samples collected on November 19-December 4, 2024 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Environmental Samples by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	EPA Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the USEPA Data Review Guidelines as follows:

- USEPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFAS) Analyzed Using EPA Method 537, November 2018;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contamination and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All holding time criteria were met.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- The samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples exhibited compounds with high ion ratios that were flagged (I) by the laboratory indicating the value is the EMPC. These results were qualified estimated (J).

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	DCFTC-BMW-105 (38-43) ng/L	DCFTC-PT-DUP-01 ng/L	RPD	Qualifier
PFBA	4.5	4.2	7%	None
PFPeA	2.6	2.5	4%	
PFHxA	2.4	1.8	29%	
PFHpA	0.91	0.86	6%	
PFOA	4.1	3.5	16%	
PFBS	9.8	8.9	10%	
PFHxS	0.87	0.88	1%	
PFOS	1.0	0.78	25%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 5/13/25

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-101 (39-49) | Lab Sample ID: 480-226019-1

Matrix: Water | Lab File ID: 2024_12_9water2inj13.d

Analysis Method: 1633 | Date Collected: 11/19/2024 10:25

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 177.3(mL) | Date Analyzed: 12/10/2024 03:35

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	8.5		5.6	1.5
2706-90-3	Perfluoropentanoic acid (PFPeA)	10		2.8	0.71
307-24-4	Perfluorohexanoic acid (PFHxA)	3.8		1.4	0.35
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.0		1.4	0.35
335-67-1	Perfluorooctanoic acid (PFOA)	2.4		1.4	0.35
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.4	0.35
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.4	0.35
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.4	0.35
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.4	0.35
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.4	0.35
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.4	0.35
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.63	J	1.4	0.35
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.4	0.35
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.4		1.4	0.36
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.4	0.35
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.78	J	1.4	0.35
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.4	0.35
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.4	0.35
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		5.6	1.4
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.8	J	5.6	1.4
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		5.6	1.4
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.4	0.35
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.4	0.35
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.4	0.35
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.4	0.44

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-101 (39-49) | Lab Sample ID: 480-226019-1

Matrix: Water | Lab File ID: 2024_12_9water2inj13.d

Analysis Method: 1633 | Date Collected: 11/19/2024 10:25

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 177.3(mL) | Date Analyzed: 12/10/2024 03:35

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.4	0.37
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		14	3.5
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		14	3.5
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		5.6	1.4
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		5.6	1.4
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.8	0.71
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.8	0.86
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		5.6	1.4
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		5.6	1.4
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.8	0.71
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.1	1.8
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		35	8.8
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		35	11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.4	0.35
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.8	0.71

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-101 (19-29) | Lab Sample ID: 480-226019-2

Matrix: Water | Lab File ID: 2024_12_9water2inj14.d

Analysis Method: 1633 | Date Collected: 11/20/2024 11:05

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 168.1(mL) | Date Analyzed: 12/10/2024 03:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	9.0		5.9	1.6
2706-90-3	Perfluoropentanoic acid (PFPeA)	10		3.0	0.74
307-24-4	Perfluorohexanoic acid (PFHxA)	4.0		1.5	0.37
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.8		1.5	0.37
335-67-1	Perfluorooctanoic acid (PFOA)	2.4		1.5	0.37
375-95-1	Perfluorononanoic acid (PFNA)	0.39	J	1.5	0.37
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.5	0.37
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.5	0.37
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.37
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.62	J	1.5	0.37
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.5	0.38
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.68	J	1.5	0.37
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.37
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		5.9	1.5
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.8	J	5.9	1.5
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		5.9	1.5
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.46

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-101 (19-29) Lab Sample ID: 480-226019-2

Matrix: Water Lab File ID: 2024_12_9water2inj14.d

Analysis Method: 1633 Date Collected: 11/20/2024 11:05

Extraction Method: 1633 Date Extracted: 12/09/2024 10:17

Sample wt/vol: 168.1(mL) Date Analyzed: 12/10/2024 03:52

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 Units: ng/L

Preparation Batch No.: 638057 Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.39
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		15	3.7
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		15	3.7
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		5.9	1.5
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		5.9	1.5
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.0	0.74
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.0	0.91
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		5.9	1.5
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		5.9	1.5
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.0	0.74
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.4	1.9
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		37	9.3
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		37	11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.0	0.74

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-101 (3-13) | Lab Sample ID: 480-226019-3

Matrix: Water | Lab File ID: 2024_12_9water2inj15.d

Analysis Method: 1633 | Date Collected: 11/20/2024 13:30

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 159.7(mL) | Date Analyzed: 12/10/2024 04:09

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	8.4		6.3	1.7
2706-90-3	Perfluoropentanoic acid (PFPeA)	9.8		3.1	0.78
307-24-4	Perfluorohexanoic acid (PFHxA)	3.6		1.6	0.39
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.7		1.6	0.39
335-67-1	Perfluorooctanoic acid (PFOA)	2.1		1.6	0.39
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.39
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.39
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.39
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.39
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.39
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.39
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.61	J	1.6	0.39
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.6	0.40
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.57	J	1.6	0.39
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.39
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.3	1.6
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.7	J	6.3	1.6
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.3	1.6
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.39
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.39
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.39
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.49

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-101 (3-13) | Lab Sample ID: 480-226019-3

Matrix: Water | Lab File ID: 2024_12_9water2inj15.d

Analysis Method: 1633 | Date Collected: 11/20/2024 13:30

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 159.7(mL) | Date Analyzed: 12/10/2024 04:09

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.41
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		16	3.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		16	3.9
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.3	1.6
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.3	1.6
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.1	0.78
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.1	0.95
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.3	1.6
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.3	1.6
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.1	0.78
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.8	2.0
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		39	9.8
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		39	12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.1	0.78

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-102 (35-45) Lab Sample ID: 480-226019-4

Matrix: Water Lab File ID: 2024_12_9water2inj18.d

Analysis Method: 1633 Date Collected: 11/21/2024 12:30

Extraction Method: 1633 Date Extracted: 12/09/2024 10:17

Sample wt/vol: 154.3(mL) Date Analyzed: 12/10/2024 04:59

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 Units: ng/L

Preparation Batch No.: 638057 Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		6.5	1.7
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.2	0.81
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.41
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.6	0.41
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.41
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.41
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.41
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.41
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.6	0.41
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.42
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.41
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.41
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.41
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.41
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.5	1.6
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.5	1.6
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.5	1.6
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.41
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.41
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.41
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.50

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-102 (35-45) | Lab Sample ID: 480-226019-4

Matrix: Water | Lab File ID: 2024_12_9water2inj18.d

Analysis Method: 1633 | Date Collected: 11/21/2024 12:30

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 154.3(mL) | Date Analyzed: 12/10/2024 04:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.42
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		16	4.1
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		16	4.1
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.5	1.6
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.5	1.6
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.2	0.81
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.2	0.99
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.5	1.6
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.5	1.6
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.2	0.81
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.1	2.0
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		41	10
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		41	12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.41
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.2	0.81

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Cleveland Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-102 (21-31) Lab Sample ID: 480-226019-5

Matrix: Water Lab File ID: 2024_12_9water2inj19.d

Analysis Method: 1633 Date Collected: 11/21/2024 14:55

Extraction Method: 1633 Date Extracted: 12/09/2024 10:17

Sample wt/vol: 163.8(mL) Date Analyzed: 12/10/2024 05:15

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 Units: ng/L

Preparation Batch No.: 638057 Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		6.1	1.6
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.1	0.76
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.5	0.38
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.38
335-67-1	Perfluorooctanoic acid (PFOA)	0.41	J	1.5	0.38
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.5	0.38
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.5	0.38
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.38
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.5	0.38
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.38
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.38
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.5	0.38
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.38
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.39
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.38
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.40	J	1.5	0.38
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.38
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.38
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.1	1.5
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.1	1.5
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.1	1.5
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.38
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.38
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.38
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.47

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-102 (21-31) | Lab Sample ID: 480-226019-5

Matrix: Water | Lab File ID: 2024_12_9water2inj19.d

Analysis Method: 1633 | Date Collected: 11/21/2024 14:55

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 163.8(mL) | Date Analyzed: 12/10/2024 05:15

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.40
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		15	3.8
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		15	3.8
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.1	1.5
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.1	1.5
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.1	0.76
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.1	0.93
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.1	1.5
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.1	1.5
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.1	0.76
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.6	1.9
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		38	9.5
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		38	11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.38
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.1	0.76

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-103 (37-47) | Lab Sample ID: 480-226019-6

Matrix: Water | Lab File ID: 2024_12_9water2inj20.d

Analysis Method: 1633 | Date Collected: 11/25/2024 12:05

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 171.6(mL) | Date Analyzed: 12/10/2024 05:32

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.4	J	5.8	1.6
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.7	J	2.9	0.73
307-24-4	Perfluorohexanoic acid (PFHxA)	0.69	J	1.5	0.36
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.36
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.5	0.36
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.5	0.36
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.5	0.36
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.36
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.5	0.36
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.36
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.36
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.36	J	1.5	0.36
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.36
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.38
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.36
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.36
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.36
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.36
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		5.8	1.5
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		5.8	1.5
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		5.8	1.5
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.36
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.36
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.36
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.45

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-103 (37-47) | Lab Sample ID: 480-226019-6

Matrix: Water | Lab File ID: 2024_12_9water2inj20.d

Analysis Method: 1633 | Date Collected: 11/25/2024 12:05

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 171.6(mL) | Date Analyzed: 12/10/2024 05:32

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.38
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		15	3.6
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		15	3.6
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		5.8	1.5
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		5.8	1.5
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.9	0.73
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.9	0.89
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		5.8	1.5
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		5.8	1.5
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.9	0.73
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.3	1.8
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		36	9.1
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		36	11
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.36
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.9	0.73

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-103 (25-45) | Lab Sample ID: 480-226019-7

Matrix: Water | Lab File ID: 2024_12_9water2inj21.d

Analysis Method: 1633 | Date Collected: 11/25/2024 14:25

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 152.1(mL) | Date Analyzed: 12/10/2024 05:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.0	J	6.6	1.8
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.1	J	3.3	0.82
307-24-4	Perfluorohexanoic acid (PFHxA)	0.42	~~J~~ J	1.6	0.41
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.6	0.41
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.41
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.41
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.41
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.41
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.41
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.42
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.41
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.41
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.41
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.41
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.6	1.6
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.6	1.6
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.6	1.6
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.41
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.41
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.41
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.51

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-103 (25-45) | Lab Sample ID: 480-226019-7

Matrix: Water | Lab File ID: 2024_12_9water2inj21.d

Analysis Method: 1633 | Date Collected: 11/25/2024 14:25

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 152.1(mL) | Date Analyzed: 12/10/2024 05:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.43
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		16	4.1
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		16	4.1
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.6	1.6
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.6	1.6
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.3	0.82
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.3	1.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.6	1.6
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.6	1.6
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.3	0.82
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.2	2.1
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		41	10
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		41	12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.41
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.3	0.82

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Cleveland Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-105 (20-30) Lab Sample ID: 480-226019-8

Matrix: Water Lab File ID: 2024_12_9water2inj22.d

Analysis Method: 1633 Date Collected: 12/03/2024 15:45

Extraction Method: 1633 Date Extracted: 12/09/2024 10:17

Sample wt/vol: 153.4(mL) Date Analyzed: 12/10/2024 06:05

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 Units: ng/L

Preparation Batch No.: 638057 Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.2	J	6.5	1.7
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.4	J	3.3	0.81
307-24-4	Perfluorohexanoic acid (PFHxA)	1.7		1.6	0.41
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.82	J	1.6	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	4.2		1.6	0.41
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.41
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.41
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.41
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.41
375-73-5	Perfluorobutanesulfonic acid (PFBS)	11		1.6	0.41
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.6	0.42
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.41
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.2	~~J~~ J	1.6	0.41
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.41
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.41
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.5	1.6
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.5	1.6
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.5	1.6
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.41
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.41
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.41
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.51

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Cleveland Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-105 (20-30) Lab Sample ID: 480-226019-8

Matrix: Water Lab File ID: 2024_12_9water2inj22.d

Analysis Method: 1633 Date Collected: 12/03/2024 15:45

Extraction Method: 1633 Date Extracted: 12/09/2024 10:17

Sample wt/vol: 153.4(mL) Date Analyzed: 12/10/2024 06:05

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 Units: ng/L

Preparation Batch No.: 638057 Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.42
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		16	4.1
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		16	4.1
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.5	1.6
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.5	1.6
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.3	0.81
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.3	0.99
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.5	1.6
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.5	1.6
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.3	0.81
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.1	2.0
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		41	10
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		41	12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.41
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.3	0.81

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

9

Lab Name: Eurofins Cleveland Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-105 (38-43) Lab Sample ID: 480-226019-9

Matrix: Water Lab File ID: 2024_12_11waterinj14.d

Analysis Method: 1633 Date Collected: 12/04/2024 14:40

Extraction Method: 1633 Date Extracted: 12/11/2024 09:52

Sample wt/vol: 144.9(mL) Date Analyzed: 12/11/2024 18:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638417 Units: ng/L

Preparation Batch No.: 638356 Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.5	J	6.9	1.8
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.6	J	3.5	0.86
307-24-4	Perfluorohexanoic acid (PFHxA)	2.4		1.7	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.94	J	1.7	0.43
335-67-1	Perfluorooctanoic acid (PFOA)	4.1		1.7	0.43
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.43
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.43
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.43
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.7	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.43
375-73-5	Perfluorobutanesulfonic acid (PFBS)	9.8		1.7	0.43
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.43
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.87	J	1.7	0.45
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.43
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.0	~~J~~ J	1.7	0.43
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.43
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.43
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.9	1.7
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.9	1.7
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.9	1.7
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.43
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.43
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.43
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.53

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

9

Lab Name: Eurofins Cleveland Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-BMW-105 (38-43) Lab Sample ID: 480-226019-9

Matrix: Water Lab File ID: 2024_12_11waterinj14.d

Analysis Method: 1633 Date Collected: 12/04/2024 14:40

Extraction Method: 1633 Date Extracted: 12/11/2024 09:52

Sample wt/vol: 144.9(mL) Date Analyzed: 12/11/2024 18:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638417 Units: ng/L

Preparation Batch No.: 638356 Instrument ID: LCMS03

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.45
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	4.3
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		17	4.3
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.9	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.9	1.7
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.86
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.9	1.7
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.9	1.7
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.86
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.6	2.2
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		43	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		43	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.86

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

10

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-PT-DUP-01 | Lab Sample ID: 480-226019-10

Matrix: Water | Lab File ID: 2024_12_9water2inj26.d

Analysis Method: 1633 | Date Collected: 12/04/2024 12:00

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 160.6(mL) | Date Analyzed: 12/10/2024 07:12

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.2	J	6.2	1.7
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.5	J	3.1	0.78
307-24-4	Perfluorohexanoic acid (PFHxA)	1.8		1.6	0.39
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.86	J	1.6	0.39
335-67-1	Perfluorooctanoic acid (PFOA)	3.5		1.6	0.39
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.39
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.39
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.39
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.39
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.39
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.39
375-73-5	Perfluorobutanesulfonic acid (PFBS)	8.9		1.6	0.39
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.88	J	1.6	0.40
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.78	J	1.6	0.39
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.39
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.2	1.6
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.2	1.6
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.2	1.6
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.39
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.39
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.39
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.48

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

16

Lab Name: Eurofins Cleveland | Job No.: 480-226019-1

SDG No.:

Client Sample ID: DCFTC-PT-DUP-01 | Lab Sample ID: 480-226019-10

Matrix: Water | Lab File ID: 2024_12_9water2inj26.d

Analysis Method: 1633 | Date Collected: 12/04/2024 12:00

Extraction Method: 1633 | Date Extracted: 12/09/2024 10:17

Sample wt/vol: 160.6(mL) | Date Analyzed: 12/10/2024 07:12

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638122 | Units: ng/L

Preparation Batch No.: 638057 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.41
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		16	3.9
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		16	3.9
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		6.2	1.6
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		6.2	1.6
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.1	0.78
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.1	0.95
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		6.2	1.6
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		6.2	1.6
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.1	0.78
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		7.8	1.9
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		39	9.7
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		39	12
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.1	0.78

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-226218-1
Laboratory: Eurofins, Cleveland, Ohio
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: May 12, 2025

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-BMW-104 (34-39)	480-226218-1	Water
2	DCFTC-BMW-104 (24-29)	480-226218-2	Water
3	DCFTC BMW-104 (17-22)	480-226218-3	Water
4	DCFTC-BMW-104 (60-65)	480-226218-4	Water

A Data Usability Summary Review was performed on the analytical data for four water samples collected on December 6-9, 2024 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Environmental Samples by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	EPA Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the USEPA Data Review Guidelines as follows:

- USEPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFAS) Analyzed Using EPA Method 537, November 2018;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries

- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All holding time criteria were met.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- The samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	%R	Qualifier	Affected Samples
240-638895/3-A	5:3 FTCA	138%	None	All Associated ND

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 5/13/25

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland Job No.: 480-226218-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 (34-39) Lab Sample ID: 480-226218-1

Matrix: Water Lab File ID: 2024_12_16LD ICALinj21.d

Analysis Method: 1633 Date Collected: 12/06/2024 10:35

Extraction Method: 1633 Date Extracted: 12/16/2024 09:54

Sample wt/vol: 78.5(mL) Date Analyzed: 12/16/2024 21:30

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638973 Units: ng/L

Preparation Batch No.: 638895 Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		13	3.4
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		6.4	1.6
307-24-4	Perfluorohexanoic acid (PFHxA)	1.3	J	3.2	0.80
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		3.2	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	1.5	J	3.2	0.80
375-95-1	Perfluorononanoic acid (PFNA)	ND		3.2	0.80
335-76-2	Perfluorodecanoic acid (PFDA)	ND		3.2	0.80
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		3.2	0.80
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		3.2	0.80
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		3.2	0.80
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		3.2	0.80
375-73-5	Perfluorobutanesulfonic acid (PFBS)	10		3.2	0.80
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		3.2	0.80
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		3.2	0.82
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		3.2	0.80
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		3.2	0.80
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		3.2	0.80
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		3.2	0.80
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		13	3.2
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		13	3.2
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		13	3.2
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		3.2	0.80
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		3.2	0.80
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		3.2	0.80
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.2	0.99

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland | Job No.: 480-226218-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 (34-39) | Lab Sample ID: 480-226218-1

Matrix: Water | Lab File ID: 2024_12_16LD ICALinj21.d

Analysis Method: 1633 | Date Collected: 12/06/2024 10:35

Extraction Method: 1633 | Date Extracted: 12/16/2024 09:54

Sample wt/vol: 78.5(mL) | Date Analyzed: 12/16/2024 21:30

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638973 | Units: ng/L

Preparation Batch No.: 638895 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.2	0.83
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		32	8.0
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		32	8.0
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		13	3.2
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		13	3.2
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		6.4	1.6
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		6.4	1.9
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		13	3.2
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		13	3.2
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		6.4	1.6
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		16	4.0
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		80	20
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		80	24
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		3.2	0.80
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		6.4	1.6

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland Job No.: 480-226218-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 (24-29) Lab Sample ID: 480-226218-2

Matrix: Water Lab File ID: 2024_12_16LD ICALinj22.d

Analysis Method: 1633 Date Collected: 12/06/2024 11:40

Extraction Method: 1633 Date Extracted: 12/16/2024 09:54

Sample wt/vol: 78.1(mL) Date Analyzed: 12/16/2024 21:47

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638973 Units: ng/L

Preparation Batch No.: 638895 Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.0	J	13	3.4
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		6.4	1.6
307-24-4	Perfluorohexanoic acid (PFHxA)	1.3	J	3.2	0.80
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		3.2	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	1.4	J	3.2	0.80
375-95-1	Perfluorononanoic acid (PFNA)	ND		3.2	0.80
335-76-2	Perfluorodecanoic acid (PFDA)	ND		3.2	0.80
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		3.2	0.80
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		3.2	0.80
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		3.2	0.80
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		3.2	0.80
375-73-5	Perfluorobutanesulfonic acid (PFBS)	12		3.2	0.80
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		3.2	0.80
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		3.2	0.83
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		3.2	0.80
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		3.2	0.80
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		3.2	0.80
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		3.2	0.80
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		13	3.2
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		13	3.2
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		13	3.2
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		3.2	0.80
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		3.2	0.80
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		3.2	0.80
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.2	0.99

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-226218-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 (24-29) | Lab Sample ID: 480-226218-2

Matrix: Water | Lab File ID: 2024_12_16LD ICALinj22.d

Analysis Method: 1633 | Date Collected: 12/06/2024 11:40

Extraction Method: 1633 | Date Extracted: 12/16/2024 09:54

Sample wt/vol: 78.1(mL) | Date Analyzed: 12/16/2024 21:47

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638973 | Units: ng/L

Preparation Batch No.: 638895 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.2	0.83
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		32	8.0
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		32	8.0
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		13	3.2
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		13	3.2
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		6.4	1.6
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		6.4	2.0
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		13	3.2
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		13	3.2
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		6.4	1.6
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		16	4.0
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		80	20
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		80	24
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		3.2	0.80
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		6.4	1.6

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-226218-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 (17-22) | Lab Sample ID: 480-226218-3

Matrix: Water | Lab File ID: 2024_12_16LD ICALinj25.d

Analysis Method: 1633 | Date Collected: 12/06/2024 13:15

Extraction Method: 1633 | Date Extracted: 12/16/2024 09:54

Sample wt/vol: 143.1(mL) | Date Analyzed: 12/16/2024 22:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638973 | Units: ng/L

Preparation Batch No.: 638895 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.4	J	7.0	1.9
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.4	J	3.5	0.87
307-24-4	Perfluorohexanoic acid (PFHxA)	1.2	J	1.7	0.44
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.53	J	1.7	0.44
335-67-1	Perfluorooctanoic acid (PFOA)	1.0	J	1.7	0.44
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.44
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.44
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.44
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.7	0.44
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.44
375-73-5	Perfluorobutanesulfonic acid (PFBS)	9.4		1.7	0.44
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.44
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.48	J	1.7	0.45
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.44
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.44
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.44
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.0	1.7
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.0	1.7
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.0	1.7
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.44
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.44
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.44
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.54

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-226218-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 (17-22) | Lab Sample ID: 480-226218-3

Matrix: Water | Lab File ID: 2024_12_16LD ICALinj25.d

Analysis Method: 1633 | Date Collected: 12/06/2024 13:15

Extraction Method: 1633 | Date Extracted: 12/16/2024 09:54

Sample wt/vol: 143.1(mL) | Date Analyzed: 12/16/2024 22:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638973 | Units: ng/L

Preparation Batch No.: 638895 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.46
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	4.4
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		17	4.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.0	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.7
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.87
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	1.7
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.7
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.87
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.7	2.2
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		44	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		44	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.87

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-226218-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 (60-65) | Lab Sample ID: 480-226218-4

Matrix: Water | Lab File ID: 2024_12_16LD ICALinj26.d

Analysis Method: 1633 | Date Collected: 12/09/2024 11:30

Extraction Method: 1633 | Date Extracted: 12/16/2024 09:54

Sample wt/vol: 82.7(mL) | Date Analyzed: 12/16/2024 22:53

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638973 | Units: ng/L

Preparation Batch No.: 638895 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		12	3.2
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		6.0	1.5
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		3.0	0.76
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		3.0	0.76
335-67-1	Perfluorooctanoic acid (PFOA)	0.87	J	3.0	0.76
375-95-1	Perfluorononanoic acid (PFNA)	ND		3.0	0.76
335-76-2	Perfluorodecanoic acid (PFDA)	ND		3.0	0.76
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		3.0	0.76
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		3.0	0.76
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		3.0	0.76
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		3.0	0.76
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.9	J	3.0	0.76
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		3.0	0.76
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		3.0	0.78
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		3.0	0.76
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		3.0	0.76
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		3.0	0.76
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		3.0	0.76
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		12	3.0
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		12	3.0
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		12	3.0
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		3.0	0.76
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		3.0	0.76
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		3.0	0.76
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.0	0.94

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-226218-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 (60-65) | Lab Sample ID: 480-226218-4

Matrix: Water | Lab File ID: 2024_12_16LD ICALinj26.d

Analysis Method: 1633 | Date Collected: 12/09/2024 11:30

Extraction Method: 1633 | Date Extracted: 12/16/2024 09:54

Sample wt/vol: 82.7(mL) | Date Analyzed: 12/16/2024 22:53

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 638973 | Units: ng/L

Preparation Batch No.: 638895 | Instrument ID: LCMS04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.0	0.79
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		30	7.6
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		30	7.6
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		12	3.0
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		12	3.0
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		6.0	1.5
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		6.0	1.8
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		12	3.0
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		12	3.0
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		6.0	1.5
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		15	3.8
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND	++	76	19
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		76	23
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		3.0	0.76
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		6.0	1.5

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
DUTCHESS COUNTY FIRE TRAINING CENER, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: 480-228891-1
Laboratory: Eurofins, Cleveland, Ohio
Site: Dutchess County Fire Training Center, Hyde Park, New York
Date: May 12, 2025

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	DCFTC-BMW-101	480-228891-1	Water
2	DCFTC-BMW-102	480-228891-2	Water
2MS	DCFTC-BMW-102MS	480-228891-2MS	Water
2MSD	DCFTC-BMW-102MSD	480-228891-2MSD	Water
3	DCFTC-DUP-01	480-228891-3	Water
4	DCFTC-BMW-103	480-228891-4	Water
5	DCFTC-EB-01	480-228891-5	Water
6	DCFTC-MW-302	480-228891-6	Water
7	DCFTC-BMW-105	480-228891-7	Water
8	DCFTC-BMW-104	480-228891-8	Water
9	DCFTC-MW-301	480-228891-9	Water

A Data Usability Summary Review was performed on the analytical data for eight water samples and one aqueous equipment blank sample collected on April 21-22, 2025 by TRC at the Dutchess County Fire Training Center site in Hyde Park, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Environmental Samples by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS	EPA Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the USEPA Data Review Guidelines as follows:

- USEPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFAS) Analyzed Using EPA Method 537, November 2018;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contamination and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS)

Holding Times

- All holding time criteria were met.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- The samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples exhibited compounds with high ion ratios that were flagged (I) by the laboratory indicating the value is the EMPC. These results were qualified estimated (J).

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	DCFTC-BMW-102 ng/L	DCFTC-DUP-01 ng/L	RPD	Qualifier
PFBS	0.83	0.80	4%	None

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 5/13/25

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-101 | Lab Sample ID: 480-228891-1

Matrix: Water | Lab File ID: 2025_4_25draft,16.d

Analysis Method: 1633 | Date Collected: 04/21/2025 12:15

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 136.1(mL) | Date Analyzed: 04/25/2025 17:13

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	12		7.3	2.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	17		3.7	0.92
307-24-4	Perfluorohexanoic acid (PFHxA)	8.7		1.8	0.46
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.2		1.8	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	3.7		1.8	0.46
375-95-1	Perfluorononanoic acid (PFNA)	0.73	J	1.8	0.46
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.62	J	1.8	0.46
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.46
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.6		1.8	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.46
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.8	0.46
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.46
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.3	1.8
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	3.7	J	7.3	1.8
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.3	1.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.46
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.46
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.46
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.57

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

1

Lab Name: Eurofins Cleveland Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-101 Lab Sample ID: 480-228891-1

Matrix: Water Lab File ID: 2025_4_25draft,16.d

Analysis Method: 1633 Date Collected: 04/21/2025 12:15

Extraction Method: 1633 Date Extracted: 04/25/2025 08:18

Sample wt/vol: 136.1(mL) Date Analyzed: 04/25/2025 17:13

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 Units: ng/L

Preparation Batch No.: 653578 Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.48
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.6
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.6
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.3	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.8
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.7	0.92
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.7	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	1.8
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.7	0.92
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.2	2.3
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		46	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		46	14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.46
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	1.4	J	3.7	0.92

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-102 | Lab Sample ID: 480-228891-2

Matrix: Water | Lab File ID: 2025_4_25draft,17.d

Analysis Method: 1633 | Date Collected: 04/21/2025 13:50

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 142.5(mL) | Date Analyzed: 04/25/2025 17:29

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		7.0	1.9
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.5	0.88
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.44
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.44
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.44
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.44
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.44
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.83	J	1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.45
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.44
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.0	1.8
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.0	1.8
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.0	1.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.44
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.44
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.44
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.54

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Cleveland Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-102 Lab Sample ID: 480-228891-2

Matrix: Water Lab File ID: 2025_4_25draft,17.d

Analysis Method: 1633 Date Collected: 04/21/2025 13:50

Extraction Method: 1633 Date Extracted: 04/25/2025 08:18

Sample wt/vol: 142.5(mL) Date Analyzed: 04/25/2025 17:29

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 Units: ng/L

Preparation Batch No.: 653578 Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.46
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.4
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.0	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.8
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.88
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	1.8
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.8
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.88
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.8	2.2
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		44	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		44	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.88

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-DUP-01 Lab Sample ID: 480-228891-3

Matrix: Water Lab File ID: 2025_4_25draft,20.d

Analysis Method: 1633 Date Collected: 04/21/2025 12:00

Extraction Method: 1633 Date Extracted: 04/25/2025 08:18

Sample wt/vol: 134.7(mL) Date Analyzed: 04/25/2025 18:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 Units: ng/L

Preparation Batch No.: 653578 Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		7.4	2.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.7	0.93
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.9	0.46
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.9	0.46
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.46
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.46
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.46
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.46
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.46
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.80	J	1.9	0.46
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.9	0.46
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.48
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.9	0.46
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.46
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.9	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.9	0.46
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.4	1.9
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		7.4	1.9
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.4	1.9
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.46
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.9	0.46
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.9	0.46
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.58

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-DUP-01 | Lab Sample ID: 480-228891-3

Matrix: Water | Lab File ID: 2025_4_25draft,20.d

Analysis Method: 1633 | Date Collected: 04/21/2025 12:00

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 134.7(mL) | Date Analyzed: 04/25/2025 18:19

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.48
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		19	4.6
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		19	4.6
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.4	1.9
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.4	1.9
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.7	0.93
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.7	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.4	1.9
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.4	1.9
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.7	0.93
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.3	2.3
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		46	12
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		46	14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.46
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.7	0.93

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-103 | Lab Sample ID: 480-228891-4

Matrix: Water | Lab File ID: 2025_4_25draft,21.d

Analysis Method: 1633 | Date Collected: 04/21/2025 15:15

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 138.1(mL) | Date Analyzed: 04/25/2025 18:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.7	J	7.2	1.9
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.6	J	3.6	0.91
307-24-4	Perfluorohexanoic acid (PFHxA)	2.5		1.8	0.45
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.53	J	1.8	0.45
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.45
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.45
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.45
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.45
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.45
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.45
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.50	J	1.8	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.45
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.45
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.45
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.45
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.2	1.8
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	280		7.2	1.8
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.2	1.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.45
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.45
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.45
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.56

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

4

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-103 | Lab Sample ID: 480-228891-4

Matrix: Water | Lab File ID: 2025_4_25draft,21.d

Analysis Method: 1633 | Date Collected: 04/21/2025 15:15

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 138.1(mL) | Date Analyzed: 04/25/2025 18:36

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.47
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.5
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.5
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.2	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.2	1.8
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.6	0.91
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.6	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.2	1.8
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.2	1.8
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.6	0.91
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.1	2.3
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		45	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		45	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.45
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.6	0.91

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-EB-01 | Lab Sample ID: 480-228891-5

Matrix: Water | Lab File ID: 2025_4_25draft,22.d

Analysis Method: 1633 | Date Collected: 04/21/2025 14:00

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 142.7(mL) | Date Analyzed: 04/25/2025 18:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		7.0	1.9
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.5	0.88
307-24-4	Perfluorohexanoic acid (PFHxA)	1.4	J	1.8	0.44
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.44
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.44
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.44
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.44
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.45
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.44
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.44
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.0	1.8
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	130		7.0	1.8
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.0	1.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.44
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.44
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.44
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.54

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

5

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-EB-01 | Lab Sample ID: 480-228891-5

Matrix: Water | Lab File ID: 2025_4_25draft,22.d

Analysis Method: 1633 | Date Collected: 04/21/2025 14:00

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 142.7(mL) | Date Analyzed: 04/25/2025 18:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.46
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.4
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.0	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.8
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.88
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	1.8
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.8
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.88
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.8	2.2
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		44	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		44	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.88

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Cleveland Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-MW-302 Lab Sample ID: 480-228891-6

Matrix: Water Lab File ID: 2025_4_25draft,25.d

Analysis Method: 1633 Date Collected: 04/22/2025 09:50

Extraction Method: 1633 Date Extracted: 04/25/2025 08:18

Sample wt/vol: 141.4(mL) Date Analyzed: 04/25/2025 19:42

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 Units: ng/L

Preparation Batch No.: 653578 Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		7.1	1.9
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.5	0.88
307-24-4	Perfluorohexanoic acid (PFHxA)	0.62	J	1.8	0.44
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.44
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.44
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.44
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.44
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.44
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.44
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.44
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.83	J	1.8	0.44
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.44
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.54	J	1.8	0.46
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.44
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.0	J	1.8	0.44
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.44
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.1	1.8
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	84		7.1	1.8
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.1	1.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.44
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.44
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.44
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.55

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

6

Lab Name: Eurofins Cleveland Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-MW-302 Lab Sample ID: 480-228891-6

Matrix: Water Lab File ID: 2025_4_25draft,25.d

Analysis Method: 1633 Date Collected: 04/22/2025 09:50

Extraction Method: 1633 Date Extracted: 04/25/2025 08:18

Sample wt/vol: 141.4(mL) Date Analyzed: 04/25/2025 19:42

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 Units: ng/L

Preparation Batch No.: 653578 Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.46
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.4
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.1	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.1	1.8
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.88
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.1	1.8
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.1	1.8
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.88
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.8	2.2
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		44	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		44	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.88

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-105 | Lab Sample ID: 480-228891-7

Matrix: Water | Lab File ID: 2025_4_25draft,26.d

Analysis Method: 1633 | Date Collected: 04/22/2025 11:10

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 143.4(mL) | Date Analyzed: 04/25/2025 19:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.0	J	7.0	1.9
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.0	J	3.5	0.87
307-24-4	Perfluorohexanoic acid (PFHxA)	2.0	~~J~~ J	1.7	0.44
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.80	J	1.7	0.44
335-67-1	Perfluorooctanoic acid (PFOA)	4.4		1.7	0.44
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.44
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.44
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.44
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.7	0.44
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.44
375-73-5	Perfluorobutanesulfonic acid (PFBS)	7.9		1.7	0.44
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.44
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.94	J	1.7	0.45
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.7	0.44
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.1	~~J~~ J	1.7	0.44
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.44
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.44
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.0	1.7
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	67		7.0	1.7
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.0	1.7
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.44
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.44
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.44
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.54

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

7

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-105 | Lab Sample ID: 480-228891-7

Matrix: Water | Lab File ID: 2025_4_25draft,26.d

Analysis Method: 1633 | Date Collected: 04/22/2025 11:10

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 143.4(mL) | Date Analyzed: 04/25/2025 19:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.45
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	4.4
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		17	4.4
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.0	1.7
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.0	1.7
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.5	0.87
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.5	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.0	1.7
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.0	1.7
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.5	0.87
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		8.7	2.2
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		44	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		44	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.44
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.5	0.87

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Y

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 | Lab Sample ID: 480-228891-8

Matrix: Water | Lab File ID: 2025_4_25draft,27.d

Analysis Method: 1633 | Date Collected: 04/22/2025 13:45

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 136.2(mL) | Date Analyzed: 04/25/2025 20:15

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.1	J	7.3	2.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.7	J	3.7	0.92
307-24-4	Perfluorohexanoic acid (PFHxA)	2.7		1.8	0.46
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.66	J	1.8	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	1.4	J	1.8	0.46
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.46
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid (PFBS)	7.3		1.8	0.46
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.46
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.49	J	1.8	0.47
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.46
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.66	J	1.8	0.46
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.46
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.3	1.8
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	110		7.3	1.8
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.3	1.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.46
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.46
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.46
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.57

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

8

Lab Name: Eurofins Cleveland | Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-BMW-104 | Lab Sample ID: 480-228891-8

Matrix: Water | Lab File ID: 2025_4_25draft,27.d

Analysis Method: 1633 | Date Collected: 04/22/2025 13:45

Extraction Method: 1633 | Date Extracted: 04/25/2025 08:18

Sample wt/vol: 136.2(mL) | Date Analyzed: 04/25/2025 20:15

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 | Units: ng/L

Preparation Batch No.: 653578 | Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.48
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.6
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.6
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.3	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.3	1.8
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.7	0.92
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.7	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.3	1.8
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.3	1.8
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.7	0.92
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.2	2.3
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		46	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		46	14
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.46
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.7	0.92

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

9

Lab Name: Eurofins Cleveland Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-MW-301 Lab Sample ID: 480-228891-9

Matrix: Water Lab File ID: 2025_4_25draft,28.d

Analysis Method: 1633 Date Collected: 04/22/2025 12:30

Extraction Method: 1633 Date Extracted: 04/25/2025 08:18

Sample wt/vol: 139.5(mL) Date Analyzed: 04/25/2025 20:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 Units: ng/L

Preparation Batch No.: 653578 Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		7.2	1.9
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		3.6	0.90
307-24-4	Perfluorohexanoic acid (PFHxA)	1.3	J	1.8	0.45
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.45
335-67-1	Perfluorooctanoic acid (PFOA)	1.7	J	1.8	0.45
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.45
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.45
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.45
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.45
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.45
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.6		1.8	0.45
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	ND		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.52	J	1.8	0.46
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.45
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.49	~~J~~ J	1.8	0.45
68259-12-1	Perfluorononanesulfonic acid (PFNS)	ND		1.8	0.45
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.45
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		7.2	1.8
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	170		7.2	1.8
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		7.2	1.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.45
31506-32-8	N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.8	0.45
4151-50-2	N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.8	0.45
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.56

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

9

Lab Name: Eurofins Cleveland Job No.: 480-228891-1

SDG No.:

Client Sample ID: DCFTC-MW-301 Lab Sample ID: 480-228891-9

Matrix: Water Lab File ID: 2025_4_25draft,28.d

Analysis Method: 1633 Date Collected: 04/22/2025 12:30

Extraction Method: 1633 Date Extracted: 04/25/2025 08:18

Sample wt/vol: 139.5(mL) Date Analyzed: 04/25/2025 20:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 653633 Units: ng/L

Preparation Batch No.: 653578 Instrument ID: LCMS02

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.47
24448-09-7	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		18	4.5
1691-99-2	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		18	4.5
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		7.2	1.8
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		7.2	1.8
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.6	0.90
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.6	1.1
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		7.2	1.8
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		7.2	1.8
113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		3.6	0.90
356-02-5	3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		9.0	2.2
914637-49-3	3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		45	11
812-70-4	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		45	13
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.45
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.6	0.90