WM
600 New Ludlow Rd,
South Hadley, MA 01075

September 2, 2026

Ms. Caroline Jalanti,
Remedial Bureau C
Division of Environmental Remediation
New York State Dept. of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7014

RE: Response to Request for Additional Sampling
Former Gaess Environmental – S.C.A Site, 336018
River Road, Harriman
Town of Monroe, Orange County

Dear Ms. Jalanti:
CWM Chemical Services, LLC (CWM) provides this report to fulfill the April 30, 2024, request from New York State Department of Environmental Conservation (NYSDEC), for additional sampling at the above noted site for emerging contaminates. The May 20 and 21, 2026, sampling and subsequent analysis was performed in accordance with the July 26, 2024, Site Characterization Work Plan, which was approved by NYSDEC on July 30, 2026.

As presented in further detail within the attached report, the results from this sampling event reinforce the November 19, 2021, Preliminary Evaluation for Presence of PFAS Summary Report that concluded the former Gaess Environmental site is not a source of PFAS. As such, it is CWM's position that NYSDEC's April 30, 2024, request associated with this site has been satisfied and CWM will be submitting a decommissioning plan for the wells at the site within 60 days.

Should you have any questions or wish to schedule a meeting to discuss this report, please contact me at (413) 427-4432.

Sincerely,

CWM Chemical Services, LLC

E Ryan Donovan

E Ryan Donovan

District Manager

cc: David Moreira, CWM (w/enclosures)
Greg Lesniak, B&L (w/enclosures)

Site Characterization Report

Former Gaess Environmental - SCA Site
NYSDEC Site No. 336018

River Road
Harriman, New York

Prepared For:

CWM CHEMICAL SERVICES, LLC

600 New Ludlow Road
South Hadley, MA 01075

August 2026

Barton&Loguidice

Former Gaess Environmental - SCA Site
NYSDEC Site No. 336018
River Road
Harriman, New York

Site Characterization Report

August 2026

Prepared For:

CWM Chemical Services, LLC
600 New Ludlow Road
South Hadley, MA 01075

Prepared By:

Barton & Loguidice, Inc.
11 Centre Park
Suite 203
Rochester, New York 14614

This document is printed on recycled paper

Certification

I, Jeffrey J. Reed, P.E., certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

083980	**8/31/2026**	
NYS Professional Engineer #	Date	Signature



Table of Contents

Section Page

1.0 Introduction 1
1.1. Background 1
1.2. Project Objectives 2
1.3. Previous Investigations 2
2.0 Physical Setting 3
2.1. Topography 3
2.2. Surficial/Overburden Geology 4
2.3. Bedrock Geology 4
2.4. Regional Groundwater Flow 4
3.0 Site Investigation Activities 5
3.1. Soil Borings and Monitoring Well Installation 5
3.2. Groundwater Sampling 5
3.3. Location and Elevation Survey 6
3.4. Water Level Monitoring 6
3.5. Data Validation 6
3.6. Community Air Monitoring Program 6
4.0 Investigation Findings 8
4.1. Subsurface Observations 8
4.2. Groundwater Flow Direction 9
4.3. Groundwater Analytical Results 9
5.0 Conclusions and Recommendations 11
6.0 References 12

Tables

Table 1 Well Construction and Information Summary
Table 2 Groundwater Analytical Results Summary
Table 3 Detected and Total PFAS Concentrations in Upgradient vs. Downgradient Site Wells
Table 4 Comparison of Historical PFAS Data

Figures

Figure 1 Site Location
Figure 2 Site Map
Figure 3 Generalized Cross Section A-A'
Figure 4 May 2026 Shallow Potentiometric Surface Map
Figure 5 July 2026 Shallow Potentiometric Surface Map
Figure 6 2026 SCG Value Exceedances

Appendices

Appendix A Subsurface Investigation Logs, Well Development & Sampling Data
Appendix B Pace® Laboratory Report
Appendix C Data Validation Report
Appendix D CAMP Summary Logs

1.0 INTRODUCTION

Barton & Loguidice, Inc. (B&L), on behalf of CWM Chemical Services, LLC (CWM), has prepared this Site Characterization (SC) Report for a property in Harriman, New York (Site), referred to by the New York State Department of Environmental Conservation (NYSDEC) as the Gaess Environmental – SCA Site (Site No. 336018). This SC Report is presented in accordance with the July 2024 Revised Site Characterization Work Plan (Work Plan) prepared by B&L and approved by NYSDEC, in consultation with the New York State Department of Health (NYSDOH), on July 30, 2024.

1.1. Background

The Site is currently owned by Penn RR Lines, LLC and is composed of one 9.1-acre parcel on River Road (Tax ID # 104-1-5) in the Village of Harriman, Orange County, New York (Figure 1). The Site is south of Meadow Avenue and west of Highway 17. The Ramapo River is approximately 200 feet to the north of the Site.

The area of the Site associated with CWM's (and others') former operations is presented in Figure 2. The Site is currently vacant and unused. CWM has not been involved with activities at the Site since the 1990s.

The Village of Harriman (Village) operates a well field used for public drinking water supply wells to the north of the Site (between the Site and the Ramapo River). One of the Village supply wells (MH-1A) is screened in an unconsolidated aquifer.

NYSDOH collected samples from MH-1A in 2017 to screen for Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) as part of the Governor's Water Quality Rapid Response Team's proactive efforts to expand upon the US Environmental Protection Agency's (EPA) Unregulated Contaminant Monitoring Rule. The sampling results showed total PFOA and PFOS concentrations in MH-1A slightly above the then-applicable EPA health advisory level.

At the request of NYSDEC, B&L collected groundwater samples at the Site in September 2021 and concluded that a monitoring well (MW-1) upgradient from the former operations area contained similar per- and polyfluoroalkyl substances (PFAS) concentrations as a monitoring well (MW-2) downgradient of the Site. PFAS with the highest concentrations in the Site monitoring wells and Village supply well MH-1A was PFOS, with concentrations in MW-1 and MW-2 significantly lower than in the Village supply well MH-1A. These data indicated that PFAS in groundwater at the Former Gaess Environmental – SCA Site originated at an upgradient location. These results were provided to NYSDEC in a "Preliminary Evaluation for Presence of PFAS Summary Letter Report" which concluded that PFAS originates from an off-site, upgradient source.

NYSDEC then required CWM to perform a SC of the Site related to PFAS in groundwater to confirm earlier results. The SC process gathers the information necessary to characterize whether site-related contamination requires further action pursuant to one of the DER remedial programs (NYSDEC, 2010, Section 3.1(a)(1)). PFAS are the contaminants of concern for this SC.

In addition, as part of a state-wide initiative to evaluate remedial sites for emerging contaminants, the NYSDEC also required groundwater samples to be analyzed for 1,4-Dioxane.

The Standards, Criteria and Guidance (SCG) values used for this SC are from the 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series No. 1.1.1 (TOGS 1.1.1) (NYSDEC, 2023). Ambient Water Quality Guidance Values are presented for two PFAS compounds; 6.7 parts per trillion (ppt) for PFOA and 2.7 ppt for PFOS. NYSDEC also requested to include analysis of 1,4-Dioxane, which has a guidance value of 0.35 parts per billion (ppb).

1.2. Project Objectives

The goal of this SC is to determine if Site-related PFAS contamination is present which may require further investigation or remedial action. Specific objectives include:

- Installation of four new monitoring wells at the Site to collect additional geological, groundwater level, and groundwater quality data.
- Collection of water level and water quality data from existing Site and Village wells.
- Analysis of data per DER-10 Technical Guidance for Site Investigation and Remediation to determine if additional investigations or remedial actions are required.

1.3. Previous Investigations

A records search was presented in the Work Plan as well as more detailed background on the events that led to development of this SC.

In summary, the following previous remedial investigations have been conducted at the Site:

- Limited Hydrogeological Investigation, GeoEngineering, September 1984
- Phase I Investigation, Sirrine, March 1991
- Phase II Investigation, Sirrine, August 1991
- Remedial Investigation (RI), Rust Environment and Infrastructure (Rust), August 1995
- Feasibility Study, Rust, February 1996
- Preliminary Evaluation for Presence of PFAS, B&L, November 2021

2.0 PHYSICAL SETTING

The following section provides hydrogeologic context based on previous investigations and published data.

The Site lies within the New England Physiographic Province, in the Hudson Highlands section (Part of the Reading Prong subgroup). The Hudson Highlands section is northeast-southwest trending and characterized by rugged, hilly to mountainous terrain formed on resistant Middle Proterozoic (Grenville-age) crystalline bedrock more than one billion years old (NYSDOT, 2013).

The Village occupies a fault-controlled valley that incises the Hudson Highlands. This valley corridor has been mapped by the U.S. Geological Survey as part of a 23-mile-long, fault-controlled valley-fill aquifer system in eastern Orange County (Heisig, 2015). The Village lies in the east-west trending portion of the valley, with the Ramapo River flowing west to east.

Bedrock uplands flanking the valley rise to elevations over 1,400 feet above mean sea level (amsl), while the valley floor near Harriman is comparatively low-lying (approximately 500 feet amsl) and mantled by glacial and post-glacial unconsolidated deposits.

The Site lies near the center of the Village and to the south-southwest of the valley floor, on a slightly elevated terrace that used to be the Erie-Lackawanna Railroad.

Horizontal and vertical datums for the measurements presented herein are the North American Datum of 1983 (NAD 83), New York, Eastern Zone, and the North American Vertical Datum of 1988 (NAVD 88), respectively.

2.1. Topography

The ground elevation at the Site ranges from approximately 528 to 586 feet amsl. Surface topography is sloped towards the north-northeast with steep escarpments at the western and eastern boundaries of the Site. Between the escarpments is a gently sloping terrace that is the abandoned rail bed.

To the northeast of the Site, topography levels out along the valley floor towards the Ramapo River, which flows west to east in the proximity of the Site. Two man-made, weir-controlled ponds are present within the Ramapo River, one just north of the Village well field, and one to the east of Mary Harriman Park.

To the southwest of the Site, the elevation rises steadily through the Village of Harriman. A large stormwater outfall that captures stormwater from the urbanized Village area is present at the southwest upgradient edge of the Site. From the outfall the stormwater is conveyed through the Site via an underground stone lined channel from southwest to northeast (Figure 2) where it discharges to the Ramapo River approximately 140 feet north of the Village well field.

2.2. Surficial/Overburden Geology

Unconsolidated deposits in the vicinity of the Site are of glacial and recent alluvial origin, consistent with the broader depositional history of the Ramapo River valley corridor in which the Site is situated. Regional glaciation deposited a heterogeneous assemblage of lodgement till, ice-contact stratified drift, and glaciofluvial outwash across this portion of Orange County. The U.S. Geological Survey characterizes the unconsolidated material within the valley-fill aquifer system near Harriman as generally thin, predominantly unconfined, and underlain by glacial till, with limited lateral continuity of individual sand and gravel horizons (Heisig, 2015). Shallow production wells completed in this material are reported to be most productive when sited near surface-water bodies, suggesting a degree of hydraulic connection between the valley-fill aquifer and adjacent streams in this setting (Heisig, 2015).

In the proximity of the Site, surficial geology is mapped as alluvium, outwash sand and gravel, and deep till. The published regional heterogeneity is reflected in previously observed subsurface conditions at the Site. A 1995 Remedial Investigation (RI) by Rust, informed by earlier site investigations (GeoEngineering, 1984/1985; Sirrine, 1991a, 1991b), characterized site overburden as fill, alluvium associated with the adjacent Ramapo River floodplain, and underlying glacial drift. The glacial drift was found to be internally heterogeneous, consisting of an interbedded mixture of ice-contact sand and gravel and lodgement till-like diamict, without consistent stratification or lateral continuity between boring locations (Rust, 1995). Fill generally consisted of reworked coarse- to fine-grained sand with trace gravel and occasional clayey silt, locally containing brick and cinder fragments. Alluvial deposits associated with the adjacent Ramapo River floodplain comprised of interbedded fine to medium sand with silt and clayey silt laminae.

2.3. Bedrock Geology

While the Hudson Highlands are generally underlain by Middle Proterozoic gneiss, the Site is underlain by the Wappinger Group (Fisher et al, 1970). The Wappinger Group is comprised of Cambrian through Ordovician limestone and dolostone. The mapped bedrock in the vicinity of the Site is structurally complex and occurs within the down-faulted Paleozoic sedimentary sequence infolded into the surrounding Hudson Highlands gneiss. Previous investigations identified the Site bedrock as Ordovician limestone (Rust, 1995).

Bedrock beneath the Site was characterized during the 1995 RI through a review of existing well logs, a seismic refraction survey, and the drilling of five soil borings. Depth to bedrock ranged from approximately 9 to 44 feet below ground surface (bgs), and the bedrock surface was found to slope to the northeast across the Site, generally in the direction of the Village well field.

2.4. Regional Groundwater Flow

In the vicinity of the Site, regional groundwater flow is toward the Ramapo River.

3.0 SITE INVESTIGATION ACTIVITIES

The following section describes the work completed in accordance with the NYSDEC approved Work Plan.

3.1. Soil Borings and Monitoring Well Installation

B&L retained the services of Core Down Drilling, LLC of Brewster, New York to drill soil borings and install monitoring wells. The drilling contractor completed the work with oversight from B&L in April 2026. Soil borings were performed using Geoprobe® direct push methods, and continuous soil samples were collected from each borehole.

The soils at each of the four borings were characterized by a qualified B&L hydrogeologist and were examined for visual evidence and olfactory indications of contamination. Soils were also screened with a calibrated photoionization detector (PID) for detection of volatile organic vapors. Subsurface investigation logs, which include characterization information, PID results, and depths of observations, are presented in Appendix A.

At each soil boring location, the drilling contractor constructed a two-inch diameter well with Schedule 40 PVC riser pipe and a pre-packed PVC well screen to be used for groundwater monitoring purposes. The locations of the four new monitoring wells (MW-3, MW-4, MW-5, and MW-6) are shown in Figure 2. Field logs and installation notes for each monitoring location can be found in Appendix A and a well construction table is present in Table 1.

Following well construction, a decontaminated oil/water interface probe was used at each location. The interface probe did not detect any free product within the monitoring wells.

Each new monitoring well was developed by B&L personnel using dedicated bailers until stabilization of water quality parameters was achieved (with the exception of turbidity), a minimum of three well volumes were removed, or until the well went dry. Turbidity levels remained elevated in the development water, and levels attenuated in the wells before the wells were purged and sampled. Well development field logs can be found in Appendix A. Existing monitoring wells MW-1 and MW-2 were also purged during the well development activities due to the inclusion of these wells with the groundwater sampling activities.

3.2. Groundwater Sampling

Approximately two weeks after the well development event, B&L personnel returned to collect groundwater samples from the four new monitoring wells, the two existing monitoring wells, and from Village supply well MH-1A. The groundwater sampling event occurred on May 20 and 21, 2026. The monitoring wells were purged until stabilization and then sampled. Proper purge and low-flow sample procedures were followed and documented in Appendix A including the use of dedicated tubing, dedicated disposable bladders, and a QED Sample Pro Bladder pump.

Village staff directed B&L to a raw water sampling spigot inside the Village pump-house to collect a representative groundwater sample from the Village supply well MH-1A. Village staff reported that the supply well was in use at the time of water quality sampling and the pumping rate was approximately 50 gallons per minute (gpm). The raw water sampling spigot was opened and purged for at least five minutes before the sample was collected.

Quality Assurance/Quality Control samples were collected as outlined in the Work Plan, which included one duplicate, one matrix spike/matrix spike duplicate, two equipment blanks, and one field blank. Samples were submitted to Pace® Analytical laboratory for analysis of 1,4-Dioxane by EPA Method 8270-SIM and PFAS by EPA Method 1633. Samples sent for laboratory analysis were placed into laboratory supplied bottleware, packed in a cooler with ice, and submitted to Pace® laboratory with chain-of-custody documentation. The laboratory report is included in Appendix B.

3.3. Location and Elevation Survey

The location of each new monitoring well, as well as Village monitoring wells MHP-MW-3S, MHP-MW-3D, and MHP-MW-4S, were surveyed by CivilTec Engineering + Surveying, a New York State-licensed surveyor. Locations were reported in feet as horizontal coordinates accurate to the nearest one-tenth (0.1) feet. Ground levels at the wellheads and top of the rim of the PVC riser were surveyed to an accuracy of 0.01 feet. Groundwater monitoring well survey information has been included in the well completion logs presented in Appendix A.

3.4. Water Level Monitoring

B&L performed two rounds of synoptic water level monitoring events of the wells identified in the Work Plan on May 21, 2026, and July 15, 2026. B&L staff collected static water levels from the Site monitoring wells and the other monitoring wells on Village property identified in the Work Plan. Static water levels were measured from the top of the PVC well casing to the nearest 0.01 feet. A static water level from MH-1A could not be collected during these monitoring events due to active use of the well preventing B&L from determining the reference elevation of the in-well, Village installed digital water level sensor.

3.5. Data Validation

B&L retained Alpha Geosciences to review the data and produce a Data Usability Summary Report (DUSR). The DUSR is attached as Appendix C. The data are acceptable and there are no data that are qualified as either rejected or unusable in the data pack. Several results are estimated.

3.6. Community Air Monitoring Program

B&L performed air monitoring in accordance with the Community Air Monitoring Plan (CAMP) included in the work plan. Monitoring results are presented in Appendix D. The CAMP monitoring was conducted to document that field personnel and the surrounding community

were not exposed to site contaminants during soil boring activities. CAMP monitoring included one upwind air monitoring station and one downwind station, each consisting of a calibrated TSI Dusttrak II dust/aerosol monitor. Monitored levels of particulates did not exceed the action level concentrations defined in the CAMP.

4.0 INVESTIGATION FINDINGS

The following section describes the findings of the site investigation activities.

4.1. Subsurface Observations

Soil borings enabled observation and classification of overburden materials and determination of the depth to bedrock at four locations on the Site (Figure 2). Subsurface investigation logs are included in Appendix A.

Location MW-3 contained varying percentages of brown silt and fine to medium sands with trace gravels below a minor topsoil layer. Presumed bedrock (depth where drilling refusal occurred) was reached at 19 feet bgs (512.72 feet amsl). The majority of the overburden appears to be alluvium with approximately 2.6 feet of glacial drift observed at the bottom of the boring. The previous piezometer in this location, GEI-3, was 15 feet deep and the subsurface material was characterized as alluvium.

Location MW-4 encountered fill materials, including cinders, wood, silt, and sandstone rock fragments to a depth of 3 feet bgs (551.59 feet amsl). Soils below this depth were primarily brown and gray fine, medium, and coarse sands with some silt and gravel. Presumed bedrock was encountered at 15.3 feet bgs (538.29 feet amsl). Below the fill, the overburden can be classified as glacial drift. The fill material is consistent with fill described in the previous RI Report (Rust, 1995).

Location MW-5 contained consistent brown fine sand throughout the boring. The topsoil layer at this location had been removed previously due to recent paving activities at the adjacent basketball courts. Presumed bedrock was encountered at a depth of 23 feet bgs (506.41 feet amsl). The overburden is characteristic of alluvium which aligns with the well's location proximal to the valley floor.

Location MW-6 contained primarily brown fine, medium, and coarse sands and fine, medium, coarse gravels characteristic of glacial drift. Presumed bedrock was deepest at this location at 37.5 feet bgs (515.08 amsl). The subsurface material is primarily glacial drift.

A generalized cross section (A-A') passing through MW-4, MW-1, MW-3, and MH-1A, is presented in Figure 3. Findings were consistent with previous investigations and published data. The overburden at the Site is complexly heterogeneous with limited observed correlation between individual sand and gravel lenses. The lower elevations closer to the Village well field are primarily underlain by alluvial deposits while the more elevated portions of the Site (which comprise most of the Site) are underlain by glacial drift. Depth to bedrock observed with new wells is within the range of depths to bedrock previously reported at the Site (Rust, 1995).

4.2. Groundwater Flow Direction

B&L developed potentiometric surface maps for the two water level monitoring events (Figures 5 and 6). B&L used measured water levels referenced to surveyed elevations (included in Table 1). As discussed in Section 3.4, water elevations from MH-1A were not available. Water levels represent pumping conditions with MH-1A reportedly pumping at approximately 50 gpm.

Shallow groundwater flow across the Site is generally towards the north/northeast, as shown by groundwater flow direction arrows in Figures 5 and 6. This aligns with previous groundwater flow at the Site. The groundwater gradient is highest between MW-1, MW-2, and MW-3, and flattens out towards the east. The steep gradient demonstrates that upgradient wells MW-1, MW-4, and MW-6 represent groundwater quality as it enters the Site. Groundwater elevations in MW-4 are approximately 10 feet higher relative to the approximate former operations area, confirming its upgradient position. The groundwater flow confirms that samples from monitoring wells at and near the higher elevation southwestern Site boundary are representative of groundwater quality as it enters the Site.

Consistent interpretations of groundwater flow across the Site establish the following relationships regarding groundwater flow:

- MW-1, MW-4, and MW-6 are the upgradient Site wells;
- MW-2, MW-3, and MW-5 are the downgradient Site wells;
- MW-1 and MW-4 are upgradient of the former operations area;
- MW-1, MW-2, MW-3, and MW-4 are upgradient of Village supply well MH-1A; and,
- MW-6 and MW-5 are more representative of upgradient and downgradient groundwater conditions, respectively, in the eastern portion of the Site.

4.3. Groundwater Analytical Results

Groundwater samples were collected from seven wells (six Site monitoring wells MW-1 through MW-6 and the Village supply well MH-1A) and analyzed by Pace® for the following parameters:

- 1,4-Dioxane by EPA method 8270 SIM
- PFAS by EPA method 1633

A summary of detected results is provided in the attached Table 2. The analytical report prepared by Pace® is included as Appendix B. Detected concentrations were compared to the SCG values of this SC presented in TOGS 1.1.1. (NYSDEC, 2023). The exceedances above SCG values are as follows:

- PFOA: Site monitoring wells MW-3, MW-5, MW-6 and Village supply well MH-1A.
- PFOS: Site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6 and Village supply well MH-1A.

The suite of individual PFAS compounds detected in each well were similar. PFAS concentrations in upgradient wells were similar to concentrations detected in downgradient wells. The PFOA concentration in MH-1A (8.06 ppt) was higher than concentrations reported in four Site monitoring wells on the western portion of the Site. The PFOS concentration in MH-1A (19.1 ppt) was higher than concentrations reported in all Site monitoring wells.

A map of the PFOA and PFOS results with SCG values highlighted is presented in Figure 6. The spatial configuration of PFOA and PFOS concentrations in the wells demonstrate that there is no on-Site source of PFAS contamination and there is an off-Site, upgradient source of PFAS contamination migrating onto the Site. 1,4-Dioxane was not detected at concentrations above method detection limits in the Site monitoring wells or in the Village supply well MH-1A.

Table 3 summarizes detected and total PFAS concentrations in Site monitoring wells, distinguishing upgradient from downgradient wells relative to groundwater flow direction. There is no discernable trend of increasing PFAS concentrations in groundwater across the Site.

B&L compared the 2026 PFAS analytical results with those previously collected from Site monitoring wells MW-1 and MW-2 and Village supply well MH-1A in 2017 and 2018 (Table 4).

5.0 CONCLUSIONS AND RECOMMENDATIONS

B&L, on behalf of CWM, prepared this SC Report for the Former Gaess Environmental – SCA Site. The goal of this SC is to determine whether site-related PFAS contamination in groundwater requires further investigation or remedial action.

This SC Report details work completed in accordance with the approved Work Plan, which consisted of four soil borings converted to groundwater monitoring wells, groundwater monitoring, and related activities. Data collected were used to expand understanding of the subsurface characteristics of the Site, groundwater flow directions, and spatial distribution of contaminants across the Site.

Groundwater elevation data confirms that groundwater flow is to the north-northeast across the Site and the former operations area associated with historic CWM activities is generally upgradient of the Village supply well MH-1A.

Analysis of contaminants in the groundwater demonstrates that the Site is not the source of PFAS, but rather that there is an upgradient source migrating onto the Site. Concentrations of PFAS compounds were present at low levels in all Site wells, including wells on the upgradient boundary of the Site. PFOS concentrations in Site monitoring wells are below the concentrations reported in Village supply well MH-1A. PFOA concentrations in the four Site monitoring wells upgradient of Village supply well MH-1A (MW-1, MW-2, MW-3, and MW-4) were below the concentrations reported in MH-1A. This provides another line of evidence demonstrating that the Site is not a source of PFAS to Village supply well MH-1A. These data and conclusions are consistent with previously collected PFAS data representative of groundwater quality upgradient and downgradient of the Site.

In accordance with NYSDEC DER-10 guidance (NYSDEC, 2010, Section 3.13), the nature and extent of contamination must be sufficiently defined to support a determination of whether further investigation or remedial action is warranted. The data developed through this SC confirm previously collected data and are sufficient to support such a determination. Given the absence of a defined on-Site source area, the consistently low PFAS concentrations observed Site-wide, and concentrations of PFAS in Site monitoring wells below concentrations in Village supply well MH-1A, B&L concludes that no further investigation or remedial action is warranted for the Site at this time. A Monitoring Well Decommissioning Work Plan will be submitted to NYSDEC within 60 days of this report.

6.0 REFERENCES

Fisher, D.W., Isachsen, Y.W., and Rickard, L.V., compilers and editors. 1970 (reprinted 1995). Geologic Map of New York: Lower Hudson Sheet: New York State Museum and Science Service, Map and Chart Series No. 15, scale 1:250,000.

GeoEngineering. 1985. Hydrogeologic Investigation and Monitoring Plan, Harriman Site, Harriman, New York. GeoEngineering, Inc., Denville, NJ. January 1985.

Heisig, P.M.. 2015. Hydrogeology of the Ramapo River–Woodbury Creek Valley-Fill Aquifer System and Adjacent Areas in Eastern Orange County, New York: U.S. Geological Survey Scientific Investigations Report 2014–5156, 23 p.

New York State Department of Transportation (NYSDOT). 2013. Geotechnical Design Manual, Chapter 3: Geology of New York State: Geotechnical Engineering Bureau, June 17, 2013.

New York State Information Technology Services (NYSITS), GIS Program Office, 2022. 2-ft Contours, Town of Montgomery, Orange County, New York. NYS GIS Clearinghouse, available at https://data.gis.ny.gov.

NYSDEC, 2010. DER-10 Technical Guidance for Site Investigation and Remediation. May 3, 2010.

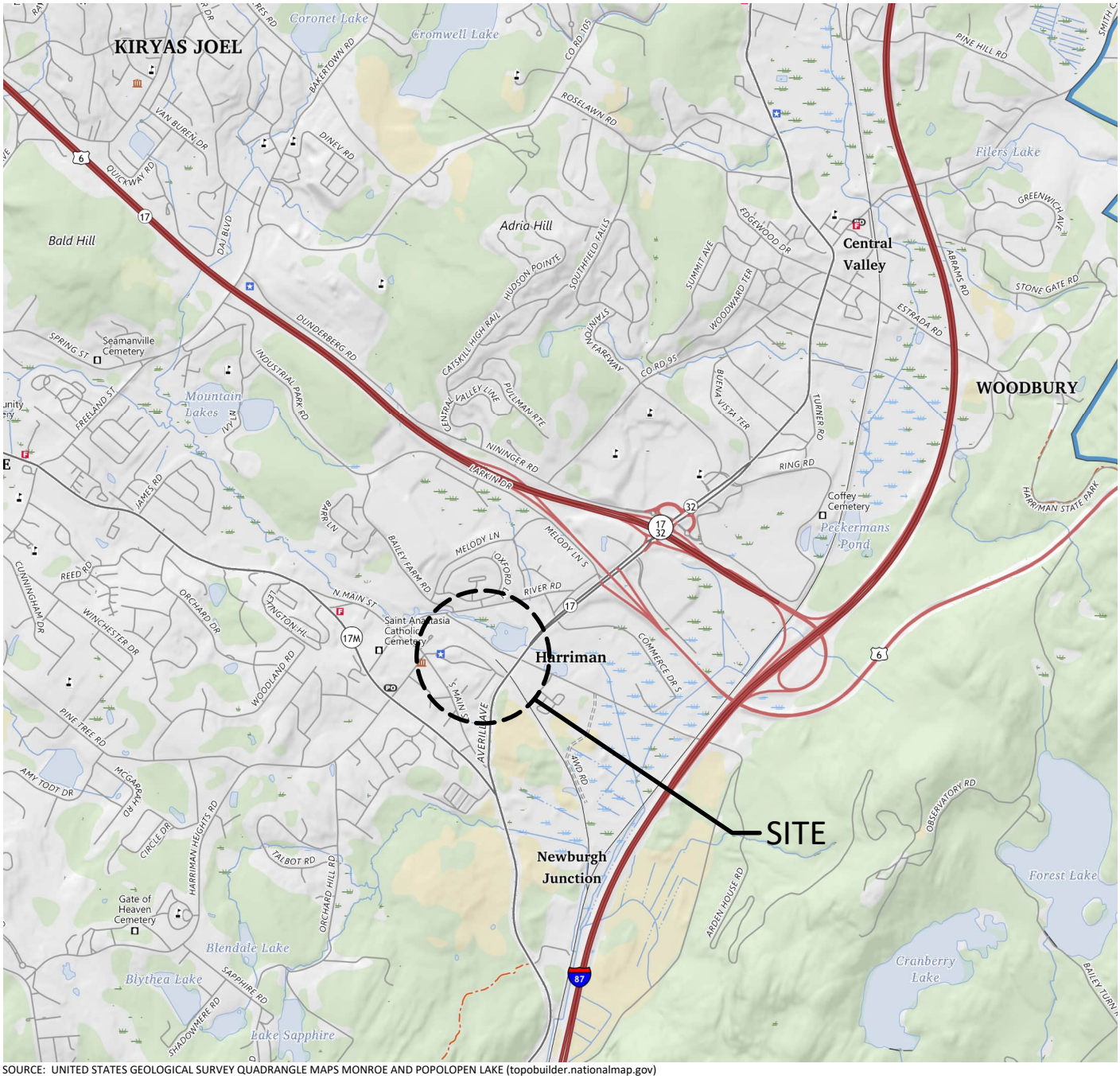
NYSDEC, 2023. 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1. Originated by Alexander Smith. Division of Water.

Rust Environment and Infrastructure. 1995. Gaess Inactive Hazardous Waste Disposal Site, Harriman, New York Site Number 336018. Approved by NYSDEC with the attached 2/8/1996 response.

Sirrine. 1991a. Phase I Investigation Results, Gaess Site, Harriman, New York, NYSDEC Site No. 336018. Sirrine Environmental Consultants, Inc., Princeton, NJ. March 1991.

Sirrine. 1991b. Phase II Investigation Results, Gaess Site, Harriman, New York, NYSDEC Site No. 336018. Sirrine Environmental Consultants, Inc., Princeton, NJ. August 1991.

Figures



SOURCE: UNITED STATES GEOLOGICAL SURVEY QUADRANGLE MAPS MONROE AND POPOLOPEN LAKE (topobuilder.nationalmap.gov)



QUADRANGLE LOCATION

3000' 0 3000'

1"=3000'

N

TRUE NORTH

Barton & Loguidice
443 Electronics Parkway
Liverpool, NY 13088

CWM CHEMICAL SERVICES, LLC

FORMER GAESS ENVIRONMENTAL - SCA SITE
SITE CHARACTERIZATION REPORT

SITE LOCATION MAP

Figure Number
1

Project Number
1242.093.031

Date
AUGUST 2026

Scale
1" = 3,000'

VILLAGE OF HARRIMAN ORANGE COUNTY, NEW YORK

Plotted: Aug 21, 2026 - 12:19PM SYR By: WBG
Z:\BL-Vault\1 - Project Files\1 - Sorted by Project Number (2) Class (2) Folder\1200\1242.093.031\CAD\1242093 Fig1 Site Location Map.dwg

SITE MAP

CVM CHEMICAL SERVICES, LLC
FORMER GAESS ENVIRONMENTAL - SCA SITE
SITE CHARACTERIZATION REPORT

ORANGE COUNTY NEW YORK

VILLAGE OF HARRIMAN

N

TRUE NORTH

VILLAGE DPW FACILITY

VILLAGE WWTP

MARY HARRIMAN PARK

FORMER NEPERA FACILITY

MW-1
MW-2
MW-3
MW-4
MW-5
MW-6

MH-1A

MHP-MW-3S
MHP-MW-3D
MHP-MW-4S

MH-101
MH-102
MH-103D
MH-103S
MH-104
MH-105D
MH-105S

A
A'

RAMAPO RIVER
BAILEY FARM RD
RIVER RD
OXFORD LN
MELODY LN
KENSINGTON WAY
DOVER RD
BROOKSIDE DR W
RAKE ST
N MAIN ST
CONKLIN LN
GROVE ST
MAPLE AVE
MEADOW AVE
ST RTE 17
ARDEN HOUSE RD
SURREY LN
KEARNEY AVE

200 0 200'

NOTES:

1. AERIAL IMAGERY (2025) AND ELEVATION CONTOURS (2022) FROM NYS GIS CLEARINGHOUSE.
2. PARCEL DATA (2026) FROM NEW YORK STATE ITS.

LEGEND

- SITE MONITORING WELL (MW-##)
- VILLAGE SUPPLY WELL (MH-1A)
- VILLAGE MONITORING WELL (MHP-##)
- NEPERA INVESTIGATION MONITORING WELL (MH-##)
- CROSS SECTION A-A'
- STORMWATER CHANNEL (UNDERGROUND)
- CLAY SEWER MAIN (APPROX. LOCATION)
- ELEVATION CONTOUR (10')
- FORMER OPERATIONS AREA (PER 1995 RI REPORT)
- SITE BOUNDARY
- NYS TAX PARCEL

Barton & Loguidice
11 Centre Park, Suite 203
Rochester, NY 14614

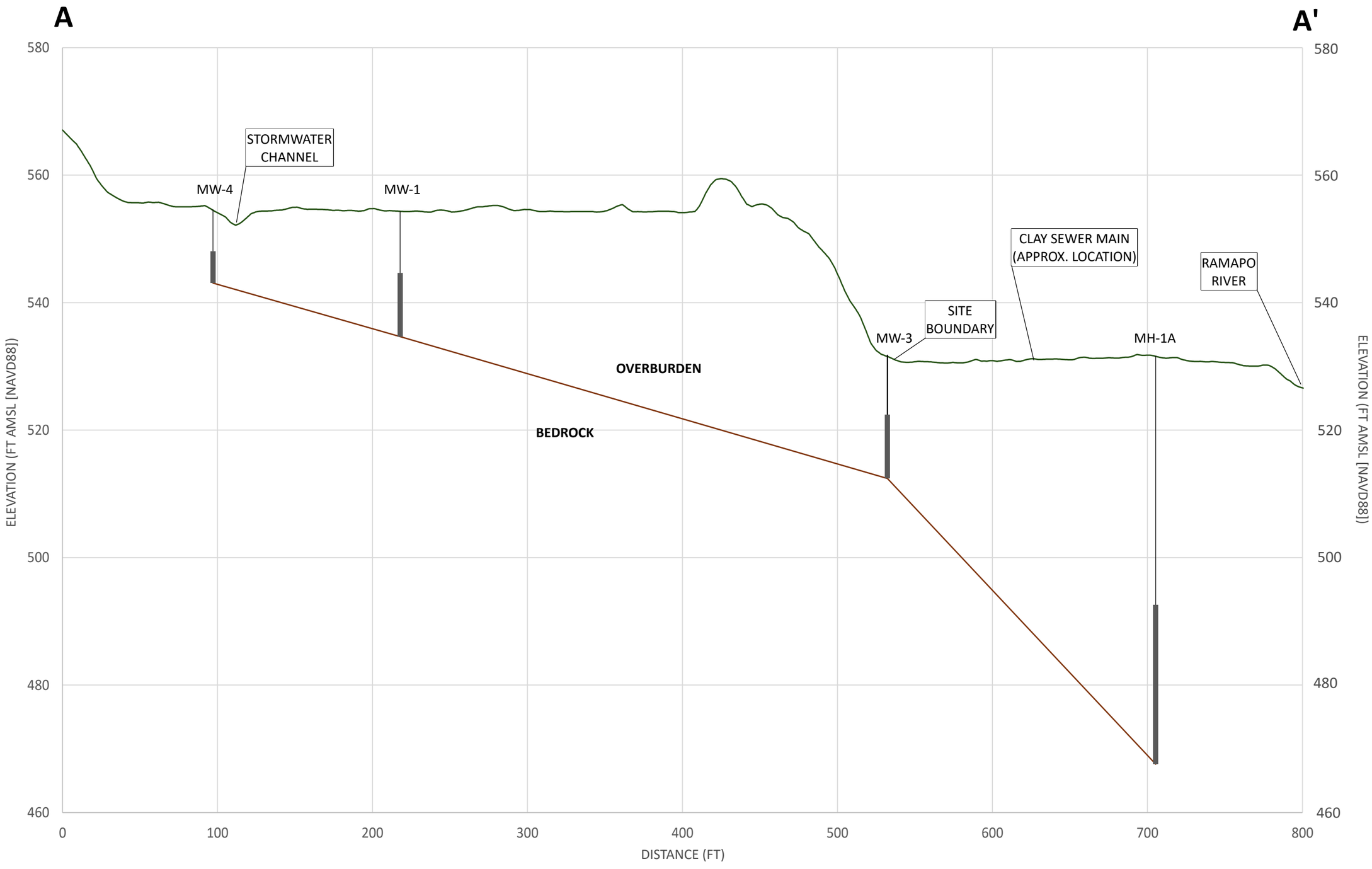
Date
AUGUST 2026

Scale
1" = 200'

Figure Number
2

Project Number
1242.093.031

Exported: 8/31/2026 3:41 PM By: tdickinson
Path: K:\Projects\1200\1242093\Projects\1242093031 Maps\1242093031 Maps.aprx



NOTE:
SURFACE ELEVATION PROFILE GENERATED FROM A 1-METER DIGITAL ELEVATION MODEL FROM NYS GIS CLEARINGHOUSE.

Exported: 8/20/2026 2:03 PM By: tdickinson
Path: K:\Projects\1200\1242093\Projects\1242093031 Maps\1242093031 Maps.aprx

CVM CHEMICAL SERVICES, LLC
FORMER GAESS ENVIRONMENTAL - SCA SITE
SITE CHARACTERIZATION REPORT

GENERALIZED CROSS SECTION A-A'

ORANGE COUNTY, NEW YORK
VILLAGE OF HARRIMAN

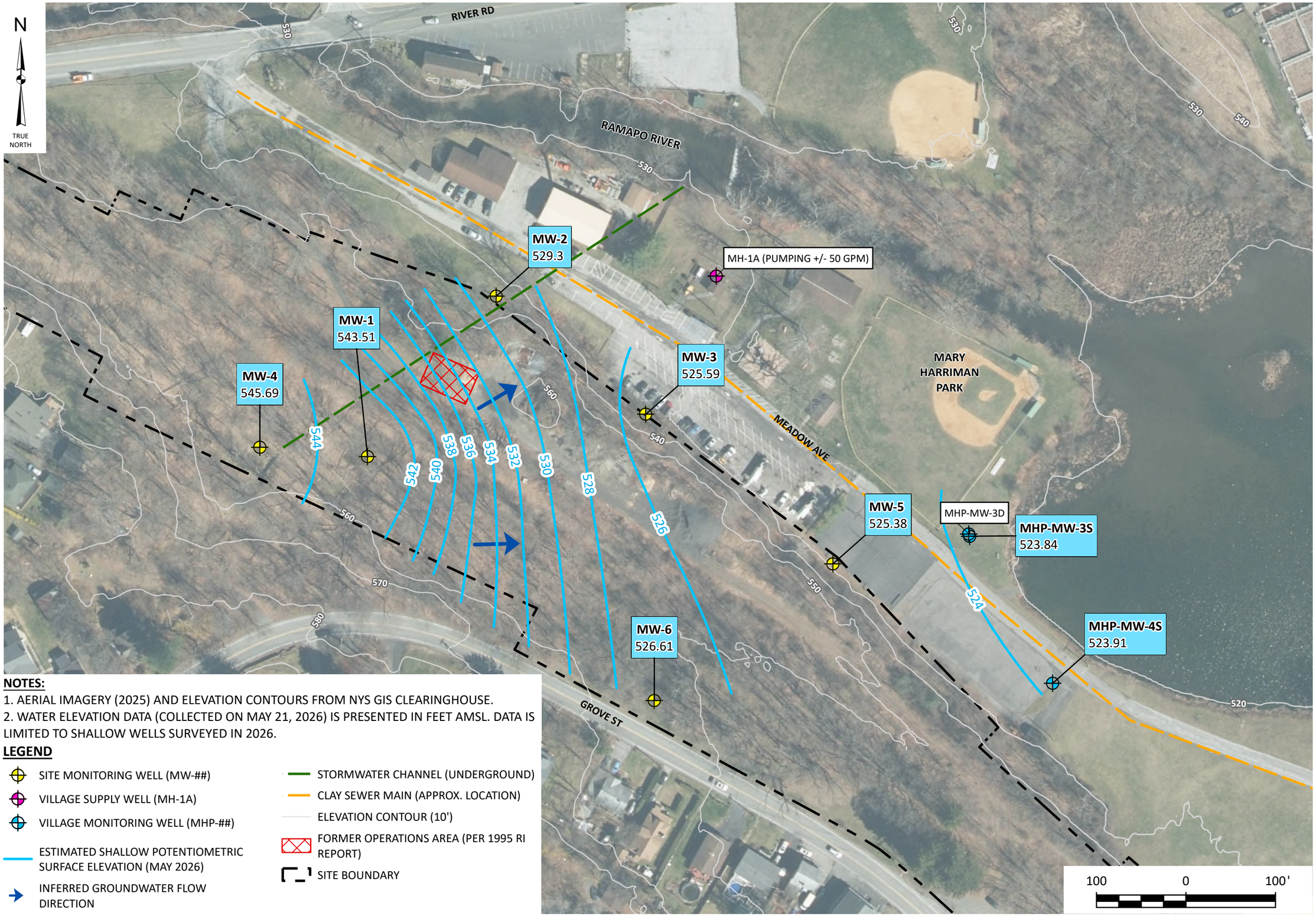
Barton & Loguidice
11 Centre Park, Suite 203
Rochester, NY 14614

Date
AUGUST 2026

Scale
VERT: 1" = 15'
HORIZ: 1"=60'

Figure Number
3

Project Number
1242.093.031



NOTES:

1. AERIAL IMAGERY (2025) AND ELEVATION CONTOURS FROM NYS GIS CLEARINGHOUSE.
2. WATER ELEVATION DATA (COLLECTED ON MAY 21, 2026) IS PRESENTED IN FEET AMSL. DATA IS LIMITED TO SHALLOW WELLS SURVEYED IN 2026.

LEGEND

- SITE MONITORING WELL (MW-##)
- VILLAGE SUPPLY WELL (MH-1A)
- VILLAGE MONITORING WELL (MHP-##)
- ESTIMATED SHALLOW POTENTIOMETRIC SURFACE ELEVATION (MAY 2026)
- INFERRED GROUNDWATER FLOW DIRECTION
- STORMWATER CHANNEL (UNDERGROUND)
- CLAY SEWER MAIN (APPROX. LOCATION)
- ELEVATION CONTOUR (10')
- FORMER OPERATIONS AREA (PER 1995 RI REPORT)
- SITE BOUNDARY

MAY 2026 SHALLOW POTENTIOMETRIC SURFACE MAP

CVM CHEMICAL SERVICES, LLC
FORMER GAESS ENVIRONMENTAL - SCA SITE
SITE CHARACTERIZATION REPORT

VILLAGE OF HARRIMAN
ORANGE COUNTY, NEW YORK

Barton & Loguidice
11 Centre Park, Suite 203
Rochester, NY 14614

Date
AUGUST 2026

Scale
1" = 100'

Figure Number
4

Project Number
1242.093.031

Exported: 8/31/2026 3:47 PM By: tdickinson
Path: K:\Projects\1200\1242093\Projects\1242093031 Maps\1242093031 Maps.aprx

N

TRUE NORTH

RIVER RD

RAMAPO RIVER

MEADOW AVE

GROVE ST

MARY HARRIMAN PARK

MW-1 544.36

MW-2 529.6

MW-3 526.24

MW-4 546.26

MW-5 526.06

MW-6 528.32

MHP-MW-3D

MHP-MW-3S 524.12

MHP-MW-4S 524.28

MH-1A (PUMPING +/- 50 GPM)

530 540 560 570 580 550 520 526 528 532 534 536 538 542 544 546

100 0 100'

NOTES:

1. AERIAL IMAGERY (2025) AND ELEVATION CONTOURS FROM NYS GIS CLEARINGHOUSE.
2. WATER ELEVATION DATA (COLLECTED ON JULY 15, 2026) IS PRESENTED IN FEET AMSL. DATA IS LIMITED TO SHALLOW WELLS SURVEYED IN 2026.

LEGEND

- SITE MONITORING WELL (MW-##)
- VILLAGE SUPPLY WELL (MH-1A)
- VILLAGE MONITORING WELL (MHP-##)
- ESTIMATED SHALLOW POTENTIOMETRIC SURFACE ELEVATION (JULY 2026)
- INFERRED GROUNDWATER FLOW DIRECTION
- STORMWATER CHANNEL (UNDERGROUND)
- CLAY SEWER MAIN (APPROX. LOCATION)
- ELEVATION CONTOUR (10')
- FORMER OPERATIONS AREA (PER 1995 RI REPORT)
- SITE BOUNDARY

Exported: 8/31/2026 3:47 PM By: tdickinson
Path: K:\Projects\1200\1242093\Projects\1242093031 Maps\1242093031 Maps.aprx

JULY 2026 SHALLOW POTENTIOMETRIC SURFACE MAP

CVM CHEMICAL SERVICES, LLC
FORMER GAESS ENVIRONMENTAL - SCA SITE
SITE CHARACTERIZATION REPORT

VILLAGE OF HARRIMAN
ORANGE COUNTY, NEW YORK

Barton & Loguidice
11 Centre Park, Suite 203
Rochester, NY 14614

Date
AUGUST 2026

Scale
1" = 100'

Figure Number
5

Project Number
1242.093.031

2026 SCG VALUE EXCEEDANCES

CVM CHEMICAL SERVICES, LLC
FORMER GAESS ENVIRONMENTAL - SCA SITE
SITE CHARACTERIZATION REPORT

ORANGE COUNTY, NEW YORK
VILLAGE OF HARRIMAN

N
TRUE NORTH

RIVER RD
RAMAPO RIVER
MEADOW AVE
GROVE ST
MARY HARRIMAN PARK

MW-1
PFOA: 6.33 ng/L
PFOS: 12.6 ng/L

MW-2
PFOA: 6.56 ng/L
PFOS: 14.2 ng/L

MW-3
PFOA: 7.29 ng/L
PFOS: 12.4 ng/L

MW-4
PFOA: 6.11 ng/L
PFOS: 12.1 ng/L

MW-5
PFOA: 13.4 ng/L
PFOS: 10.4 ng/L

MW-6
PFOA: 11.7 ng/L
PFOS: 13.7 ng/L

MH-1A
PFOA: 8.06 ng/L
PFOS: 19.1 ng/L

MHP-MW-3D
MHP-MW-3S
MHP-MW-4S

530 540 550 560 570 580 590 520

NOTES:
1. AERIAL IMAGERY (2025) AND ELEVATION CONTOURS FROM NYS GIS CLEARINGHOUSE.
2. HIGHLIGHTED RESULTS INDICATE TOGS 1.1.1 (NYSDEC, 2023) EXCEEDANCES.

LEGEND

- SITE MONITORING WELL (MW-##)
- VILLAGE SUPPLY WELL (MH-1A)
- VILLAGE MONITORING WELL (MHP-##)
- STORMWATER CHANNEL (UNDERGROUND)
- CLAY SEWER MAIN (APPROX. LOCATION)
- ELEVATION CONTOUR (10')
- FORMER OPERATIONS AREA (PER 1995 RI REPORT)
- SITE BOUNDARY

100 0 100'

Barton & Loguidice
11 Centre Park, Suite 203
Rochester, NY 14614

Date
AUGUST 2026

Scale
1" = 100'

Figure Number
6

Project Number
1242.093.031

Exported: 8/31/2026 3:42 PM By: tdickinson
Path: K:\Projects\1200\1242093\Projects\1242093031 Maps\1242093031 Maps.aprx

Tables

Barton & Loguidice

Table 1
Well Construction and Information Summary
Former Gaess Environmental - SCA Site

Well ID	Northing (ft)	Easting (ft)	Ground Surface Elevation (ft amsl)	Measuring Point Elevation (ft amsl)	Screened Interval Depth (ft bgs)	Screened Interval Elevation (ft amsl)	Static Water Level 5/21/2026		Static Water Level 7/15/2026	
							Depth (ft bgs)	Elevation (ft amsl)	Depth (ft bgs)	Elevation (ft amsl)
MW-1	902592.96	588766.08	554.29	556.88	9.6-19.6	544.69-534.69	13.37	543.51	12.52	544.36
MW-2	902772.07	588909.95	542.97	544.40	12.6-22.6	530.37-520.37	15.10	529.30	14.80	529.60
MW-3	902640.23	589076.9	531.72	531.42	9-19	522.72-512.72	5.83	525.59	5.18	526.24
MW-4	902603.38	588645.81	554.59	558.37	10-15	544.59-539.59	12.68	545.69	12.11	546.26
MW-5	902473.26	589286.14	529.41	529.29	13-23	516.41-506.41	3.91	525.38	3.23	526.06
MW-6	902320.74	589086.53	552.58	556.24	27-37	525.58-515.58	29.63	526.61	27.92	528.32
MHP-MW-3S	902504.07	589438.92	525.91	528.08	4-14	521.91-511.91	4.24	523.84	3.96	524.12
MHP-MW-3D	902506.68	589437.91	525.75	527.69	25-35	500.75-490.75	3.48	524.21	2.98	524.71
MHP-MW-4S	902339.84	589531.59	527.00	528.49	5.5-15.5	521.5-511.5	4.58	523.91	4.21	524.28
MH-1A	902788.88	589158.40	532.38	N/A	39-64	493.38-468.38	N/A	N/A	N/A	N/A

Notes:
Abbreviations: ft = feet, amsl = above mean sea level, bgs = below ground surface, N/A = not available
Horizontal (NAD83) and vertical (NAVD 88) locations of the wells from CivilTec Engineering & Surveying.
Screened intervals of Village wells provided by the Village of Harriman.

Barton & Loguidice

Table 2
Groundwater Analytical Results Summary
Former Gaess Environmental - SCA Site

	SAMPLE ID:		MW-1				MW-2				MW-3				MW-4			
	LAB ID:		L2631485-03				L2631485-09				L2631485-04				L2631485-02			
	COLLECTION DATE:		5/20/2026				5/21/2026				5/20/2026				5/20/2026			
	SAMPLE MATRIX:		GROUNDWATER				GROUNDWATER				GROUNDWATER				GROUNDWATER			
ANALYTE	CAS	GV	RESULT	Q	RL	MDL	RESULT	Q	RL	MDL	RESULT	Q	RL	MDL	RESULT	Q	RL	MDL
PERFLUORINATED ALKYL ACIDS BY EPA 1633 (ng/l)																		
Perfluorobutanoic Acid (PFBA)	375-22-4	N/A	7.54		5.33	3.57	5.52	J	6.03	4.04	ND		5.67	3.8	7.34		5.46	3.66
Perfluoropentanoic Acid (PFPeA)	2706-90-3	N/A	9.08		2.66	0.533	9.89		3.02	0.603	6.39		2.84	0.567	8.66		2.73	0.546
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	N/A	5.62		1.33	0.426	4.73		1.51	0.482	4.15		1.42	0.454	5.02		1.36	0.436
Perfluorohexanoic Acid (PFHxA)	307-24-4	N/A	5.61		1.33	1.09	6.9		1.51	1.24	4.18		1.42	1.16	5.36		1.36	1.12
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	N/A	0.426	J	1.33	0.306	0.769	J	1.51	0.347	ND		1.42	0.326	0.559	J	1.36	0.314
Perfluoroheptanoic Acid (PFHpA)	375-85-9	N/A	2.62		1.33	0.413	3.18		1.51	0.467	2.68		1.42	0.439	2.34		1.36	0.423
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	N/A	4.01		1.33	0.586	6.8		1.51	0.663	3.13		1.42	0.624	4.12		1.36	0.6
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	6.33		1.33	0.333	6.56		1.51	0.377	7.29		1.42	0.354	6.11		1.36	0.341
Perfluorononanoic Acid (PFNA)	375-95-1	N/A	0.453	J	1.33	0.213	ND		1.51	0.241	ND		1.42	0.227	0.464	J	1.36	0.218
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	12.6		1.33	1.02	14.2		1.51	1.16	12.4		1.42	1.09	12.1		1.36	1.05
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	N/A	ND		13.3	1.41	ND		15.1	1.6	ND		14.2	1.5	ND		13.6	1.44
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	N/A	ND		13.3	1.2	ND		15.1	1.36	ND		14.2	1.28	ND		13.6	1.23

Notes:
Only analytes that were detected are included.
For the full list of analytes see Appendix B.
Guidance values from Technical Operational Guidance Series 1.1.1 (NYSDEC, 2023).
Highlighted text indicate a result higher than the guidance value.

Abbreviations:
GV = guidance value; ug/l = micrograms per liter; ng/L = nanograms per liter; Q = qualifier; RL = reporting limit; MDL = method detection limit; N/A = not applicable; ND = not detected; J = estimated value.

Barton & Loguidice

Table 2
Groundwater Analytical Results Summary
Former Gaess Environmental - SCA Site

	SAMPLE ID:		MW-5				DUP of MW-5				MW-6				MH-1A			
	LAB ID:		L2631485-01				L2631485-07				L2631485-10				L2631485-08			
	COLLECTION DATE:		5/20/2026				5/20/2026				5/21/2026				5/21/2026			
	SAMPLE MATRIX:		GROUNDWATER				GROUNDWATER				GROUNDWATER				GROUNDWATER			
ANALYTE	CAS	GV	RESULT	Q	RL	MDL	RESULT	Q	RL	MDL	RESULT	Q	RL	MDL	RESULT	Q	RL	MDL
PERFLUORINATED ALKYL ACIDS BY EPA 1633 (ng/l)																		
Perfluorobutanoic Acid (PFBA)	375-22-4	N/A	4.15	J	5.35	3.58	3.86	J	5.77	3.86	6.66		6.35	4.25	5.76		5.58	3.74
Perfluoropentanoic Acid (PFPeA)	2706-90-3	N/A	4.92		2.68	0.535	4.77		2.88	0.577	11.3		3.17	0.635	11.1		2.79	0.558
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	N/A	5.18		1.34	0.428	5.22		1.44	0.462	6.19		1.59	0.508	4.07		1.39	0.446
Perfluorohexanoic Acid (PFHxA)	307-24-4	N/A	4.84		1.34	1.1	5.16		1.44	1.18	10.5		1.59	1.3	7.16		1.39	1.14
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	N/A	ND		1.34	0.308	ND		1.44	0.332	0.412	J	1.59	0.365	0.446	J	1.39	0.321
Perfluoroheptanoic Acid (PFHpA)	375-85-9	N/A	2.5		1.34	0.415	2.28		1.44	0.447	2.94		1.59	0.492	3.11		1.39	0.432
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	N/A	2.88		1.34	0.589	2.41		1.44	0.635	2.74		1.59	0.698	6.37		1.39	0.614
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	13.4		1.34	0.334	11.2		1.44	0.361	11.7		1.59	0.397	8.06		1.39	0.349
Perfluorononanoic Acid (PFNA)	375-95-1	N/A	ND		1.34	0.214	ND		1.44	0.231	0.793	J	1.59	0.254	ND		1.39	0.223
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	10.4		1.34	1.03	8.57		1.44	1.11	13.7		1.59	1.22	19.1		1.39	1.07
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	N/A	1.46	J	13.4	1.42	ND		14.4	1.53	ND		15.9	1.68	ND		13.9	1.48
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	N/A	1.83	J	13.4	1.2	ND		14.4	1.3	ND		15.9	1.43	ND		13.9	1.26

Notes:
Only analytes that were detected are included.
For the full list of analytes see Appendix B.
Guidance values from Technical Operational Guidance Series 1.1.1 (NYSDEC, 2023).
Highlighted text indicate a result higher than the guidance value.

Abbreviations:
GV = guidance value; ug/l = micrograms per liter; ng/L = nanograms per liter; Q = qualifier; RL = reporting limit; MDL = method detection limit; N/A = not applicable; ND = not detected; J = estimated value.

Barton & Loguidice

Table 2
Groundwater Analytical Results Summary
Former Gaess Environmental - SCA Site

			SAMPLE ID:		FIELD BLANK		EQUIPMENT BLANK-1				EQUIPMENT BLANK-2			
			LAB ID:		L2631485-05		L2631485-06				L2631485-11			
			COLLECTION DATE:		5/20/2026		5/20/2026				5/21/2026			
			SAMPLE MATRIX:		WATER		WATER				WATER			
ANALYTE	CAS	GV	RESULT	Q	RL	MDL	RESULT	Q	RL	MDL	RESULT	Q	RL	MDL
PERFLUORINATED ALKYL ACIDS BY EPA 1633 (ng/l)														
Perfluorobutanoic Acid (PFBA)	375-22-4	N/A	ND		5.47	3.66	ND		5.85	3.92	ND		5.57	3.73
Perfluoropentanoic Acid (PFPeA)	2706-90-3	N/A	ND		2.73	0.547	ND		2.92	0.585	ND		2.79	0.557
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	N/A	ND		1.37	0.437	ND		1.46	0.468	ND		1.39	0.446
Perfluorohexanoic Acid (PFHxA)	307-24-4	N/A	ND		1.37	1.12	ND		1.46	1.2	ND		1.39	1.14
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	N/A	ND		1.37	0.314	ND		1.46	0.336	ND		1.39	0.32
Perfluoroheptanoic Acid (PFHpA)	375-85-9	N/A	ND		1.37	0.424	ND		1.46	0.453	ND		1.39	0.432
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	N/A	ND		1.37	0.601	ND		1.46	0.643	ND		1.39	0.613
Perfluorooctanoic Acid (PFOA)	335-67-1	6.7	ND		1.37	0.342	ND		1.46	0.366	ND		1.39	0.348
Perfluorononanoic Acid (PFNA)	375-95-1	N/A	ND		1.37	0.219	ND		1.46	0.234	ND		1.39	0.223
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.7	ND		1.37	1.05	ND		1.46	1.12	ND		1.39	1.07
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	N/A	ND		13.7	1.45	ND		14.6	1.55	ND		13.9	1.48
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	N/A	ND		13.7	1.23	ND		14.6	1.32	ND		13.9	1.25

Notes:
Only analytes that were detected are included.
For the full list of analytes see Appendix B.
Guidance values from Technical Operational Guidance Series 1.1.1 (NYSDEC, 2023).
Highlighted text indicate a result higher than the guidance value.

Abbreviations:
GV = guidance value; ug/l = micrograms per liter; ng/L = nanograms per liter; Q = qualifier; RL = reporting limit; MDL = method detection limit; N/A = not applicable; ND = not detected; J = estimated value.

Barton & Loguidice

Table 3
Detected and Total PFAS Concentrations in Upgradient vs. Downgradient Site Wells
Former Gaess Environmental - SCA Site

Site Monitoring Well:	MW-1	MW-4	MW-2	MW-3
Relative Position:	**Upgradient**		**Downgradient**	
Perfluorobutanoic Acid (PFBA)	7.54	7.34	5.52	ND
Perfluoropentanoic Acid (PFPeA)	9.08	8.66	9.89	6.39
Perfluorobutanesulfonic Acid (PFBS)	5.62	5.02	4.73	4.15
Perfluorohexanoic Acid (PFHxA)	5.61	5.36	6.9	4.18
Perfluoropentanesulfonic Acid (PFPeS)	0.426	0.559	0.769	ND
Perfluoroheptanoic Acid (PFHpA)	2.62	2.34	3.18	2.68
Perfluorohexanesulfonic Acid (PFHxS)	4.01	4.12	6.8	3.13
Perfluorooctanoic Acid (PFOA)	6.33	6.11	6.56	7.29
Perfluorononanoic Acid (PFNA)	0.453	0.464	ND	ND
Perfluorooctanesulfonic Acid (PFOS)	12.6	12.1	14.2	12.4
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	ND	ND	ND
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	ND	ND	ND
Total PFAS Concentration:	54.29	52.07	58.55	40.22

Notes:
All results presented in nanograms per liter.
Total PFAS concentration is the sum of detected and estimated concentrations analyzed using EPA 1633.

Barton & Loguidice

Table 3
Detected and Total PFAS Concentrations in Upgradient vs. Downgradient Site Wells
Former Gaess Environmental - SCA Site

Site Monitoring Well:	MW-6	MW-5
Relative Position:	**Upgradient**	**Downgradient**
Perfluorobutanoic Acid (PFBA)	6.66	4.15
Perfluoropentanoic Acid (PFPeA)	11.3	4.92
Perfluorobutanesulfonic Acid (PFBS)	6.19	5.18
Perfluorohexanoic Acid (PFHxA)	10.5	4.84
Perfluoropentanesulfonic Acid (PFPeS)	0.412	ND
Perfluoroheptanoic Acid (PFHpA)	2.94	2.5
Perfluorohexanesulfonic Acid (PFHxS)	2.74	2.88
Perfluorooctanoic Acid (PFOA)	11.7	13.4
Perfluorononanoic Acid (PFNA)	0.793	ND
Perfluorooctanesulfonic Acid (PFOS)	13.7	10.4
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	1.46
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	1.83
Total PFAS Concentration:	66.94	51.56

Notes:
All results presented in parts per trillion.
Total PFAS concentration is the sum of detected and estimated concentrations analyzed using EPA 1633.

Barton & Loguidice

Table 4
Comparison of Historical PFAS Data
Former Gaess Environmental - SCA Site

	SAMPLE ID:	MW-1		MW-2		MH-1A	
	SAMPLE DATE:	9/27/2021	5/20/2026	9/27/2021	5/21/2026	6/20/2018	5/21/2026
	METHOD:	EPA 537	EPA 1633	EPA 537	EPA 1633	EPA 537	EPA 1633
ANALYTE	**CAS**	**RESULT (ng/L)**					
Perfluorobutanoic Acid (PFBA)	375-22-4	ND	7.54	5.1	*5.52*	N/A	5.76
Perfluoropentanoic Acid (PFPeA)	2706-90-3	8.8	9.08	11	9.89	N/A	11.1
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	5.3	5.62	4.7	4.73	3.91	4.07
Perfluorohexanoic Acid (PFHxA)	307-24-4	5.7	5.61	8.1	6.9	N/A	7.16
Perfluoroheptanoic Acid (PFHpA)	375-85-9	2.9	2.62	4	3.18	3.05	3.11
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	5.1	4.01	8.2	6.8	11.5	6.37
Perfluorooctanoic Acid (PFOA)	335-67-1	5.4	6.33	7.8	6.56	4.33	8.06
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	24	12.6	25	14.2	43.9	19.1

Notes:
Results from 2026 were analysed using EPA 1633; previous results were analyzed using EPA 537 (modified).
Results italicized where estimated.
Results for MH-1A from 2018 had a limited suite of substances reported, N/A where data was unavailable.

Abbreviations: ng/L = nanograms per liter; ND = not detected; N/A = not available

Appendices

Appendix A
Subsurface Investigation Logs, Well Development & Sampling Data

SITE CHARACTERIZATION
SUBSURFACE INVESTIGATION LOG

BORING NO. **MW-3**

Project No. **1242.093.031**

PROJECT INFORMATION		DRILLING INFORMATION	
Project:	Former Gaess Environmental S.C.A. Site	**Drilling Co:**	Core Down Drilling, LLC
Client:	CWM Chemical Services LLC	**Driller:**	Bill (Driller) and Andrew (Helper)
Site Location:	1 Meadow Ave, Harriman, NY 10926	**Rig Type:**	Geoprobe 7822DT
Job No:	1242.093.031	**Drilling Method(s):**	Direct Push
Project Manager:	Greg Lesniak, P.G.	**Hammer Wt/Drop:**	N/A
Logged By:	Donald Howe	**Hammer Type:**	N/A
Dates Drilled:	April 28, 2026	**Borehole Dia:** 2.5-inch	**Total Depth:** 19 feet
LOCATION INFORMATION		**WELL INFORMATION**	
Elevation (ft amsl):	531.7 **Easting:** 589076.9	**Top of Concrete**	NA **Screen Type/Dia:** S40 PVC/2"
	Northing: 902640.23	**Top of PVC**	531.42 **Slot Size:** 0.010"

Barton & Loguidice, Inc. **FORMER GAESS HARRIMAN ENVIRONMENTAL S.C.A. SITE** BORING NO: MW-3

Depth	Sample Type	USCS	Description	PID (ppm)	Sample Int.	Recovery	Notes / *Well Construction*
1	Macro-Core Sampler	ML	0.0-0.4 : Dark Brown SILT, trace Organics (roots, leaves), loose, dry	0.0	0'-5'	2.1/5	
		SW	0.4-0.5 : Light Brown and Gray medium SAND, trace Gravel, loose,dry	0.0			
		SP	0.5-0.8 : Brown fine to medium SAND, trace Silt, loose, dry	0.0			
		SP	0.8-1.0 : Dark Brown fine/medium/coarse SAND, trace fine Gravel, loose, dry	0.0			
		SW	1.0-1.5 : Brown coarse SAND, trace fine Gravel, loose, dry	0.0			
2		SP	1.5-2.1 : Light Brown fine to medium SAND, trace medium Gravel, loose, dry	0.0			Stick Up Casing and Grout from Surface to 4'
3							
4			2.1-5.0 : No Recovery				
5							Bentonite 4'-6'
6		SP	5.0-7.4 : Brown fine to medium SAND, loose, wet	0.0	5'-10'	2.7/5	
7				0.0			
		SM	7.4-7.7 : Brown fine SAND, some Silt, trace fine Gravel, loose, wet	0.0			Sand Pack 6'-9'
8							
9			7.7-10.0 : No Recovery				
10		SP	10.0-10.3 : Brown fine to medium SAND, loose, wet	0.0	10'-15'	3.3/5	
11		ML	10.3-11.8 : Brown and Light Brown SILT, little fine Sand, loose, wet	0.0			ECT Pre-packed Well Screen 9'-19'
12		SP	11.8-12.5 : Dark Brown fine to medium SAND, trace Silt, loose, wet	0.0			
13		ML	12.5-13.3 : Brown SILT, little fine to medium Sand, loose, wet	0.0			
14			13.3-15.0 : No Recovery				
15							

Barton & Loguidice, Inc.			**FORMER GAESS HARRIMAN ENVIRONMENTAL S.C.A. SITE**				BORING NO: MW-3
Depth	Sample Type	USCS	Description	PID (ppm)	Sample Int.	Recovery	Notes / *Well Construction*
15	Macro-Core Sampler	ML	15.0-16.4 : Layers of Brown SILT with little fine Sand (15.0-15.3 and 15.8-16.0) and Dark Brown fine to medium SAND with trace Silt (15.3-15.8 and 16.0-16.4) loose, wet	0.0	15'-20'	2.2/4	ECT Pre-packed Well Screen 9'-19'
16		ML	16.4-17.2 : Brown SILT, little fine/medium/coarse Gravel, loose, wet	0.0			
17			17.2-19.0 : No Recovery				
18							
19							

End of Boring 19.0 feet below ground surface due to drilling refusal

SITE CHARACTERIZATION
SUBSURFACE INVESTIGATION LOG

BORING NO. **MW-4**

Project No. **1242.093.031**

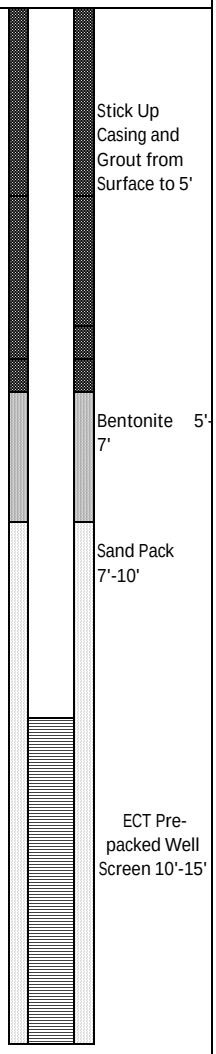
PROJECT INFORMATION		DRILLING INFORMATION	
Project:	Former Gaess Environmental S.C.A. Site	**Drilling Co:**	Core Down Drilling, LLC
Client:	CWM Chemical Services LLC	**Driller:**	Bill (Driller) and Andrew (Helper)
Site Location:	1 Meadow Ave, Harriman, NY 10926	**Rig Type:**	Geoprobe 7822DT
Job No:	1242.093.031	**Drilling Method(s):**	Direct Push
Project Manager	Greg Lesniak, P.G.	**Hammer Wt/Drop:**	N/A
Logged By:	Donald Howe	**Hammer Type:**	N/A
Dates Drilled:	April 28, 2026	**Borehole Dia:**	2.5-inch **Total Depth:** 15.3 feet
LOCATION INFORMATION		**WELL INFORMATION**	
Elevation (ft amsl):	554.6 **Easting:** 588645.81	**Top of Concrete**	NA **Screen Type/Dia:** S40 PVC/2"
	Northing: 902603.38	**Top of PVC**	558.37 **Slot Size:** 0.010"

Barton & Loguidice, Inc. **FORMER GAESS HARRIMAN ENVIRONMENTAL S.C.A. SITE** BORING NO: MW-4

Depth	Sample Type	USCS	Description	PID (ppm)	Sample Int.	Recovery
1	Macro-Core Sampler	ML	0-0.3 : Brown SILT Topsoil, trace fine Sand, trace Organics (roots), medium dense, moist	0.0	0'-5'	3/5
		ML	0.3-1.2 : Dark Brown to Brown SILT, trace Organics (roots), piece of black Slag, medium dense, dry to moist, medium to low plasticity	0.0		
			1.2-1.4 : Gray Sandstone fragments pulverized, dry	0.0		
			1.4-1.5 : Brown Wood, dry	0.0		
2			1.5-1.7 : Black Slag/Cinders, loose, dry, some shine on exterior of Slag	0.0		
		ML	1.7-2.1 : Dark Brown to Brown SILT, medium dense, dry	0.0		
3			2.1-3.0 : Gray Sandstone fragments, pulverized, dry, trace Brown Silt.	0.0		
4			3.0-5.0 : No Recovery			
5						
6		SP	5.0-7.5 : Light Brown fine and medium SAND, some Silt, little medium to coarse Gravel, medium dense, dry to wet at 6.3 feet	0.0	5'-10'	2.5/5
7				0.0		
8			7.5-10.0 : No Recovery			
9						
10						
11		SP	10-12.8 : Same As Above, wet	0.0	10'-15'	3.3/5
12				0.0		
		SP	12.8-13.3 : Gray fine/medium/coarse SAND, some medium Gravel, loose, wet	0.0		
13						
14			13.3-15.0 : No Recovery			
15						
		ML	15.0-15.3 : Brown to Gray SILT, trace fine Sand, loose, wet	0.0	15'-15.3'	0.3/0.3

End of Boring 15.3 feet below ground surface due to drilling refusal

Notes / *Well Construction*



SITE CHARACTERIZATION SUBSURFACE INVESTIGATION LOG

BORING NO. **MW-5**

Project No. **1242.093.031**

PROJECT INFORMATION		DRILLING INFORMATION	
Project:	Former Gaess Environmental S.C.A. Site	**Drilling Co:**	Core Down Drilling, LLC
Client:	CWM Chemical Services LLC	**Driller:**	Bill (Driller) and Andrew (Helper)
Site Location:	1 Meadow Ave, Harriman, NY 10926	**Rig Type:**	Geoprobe 7822DT
Job No:	1242.093.031	**Drilling Method(s):**	Direct Push
Project Manager:	Greg Lesniak, P.G.	**Hammer Wt/Drop:**	N/A
Logged By:	Donald Howe	**Hammer Type:**	N/A
Dates Drilled:	April 28, 2026	**Borehole Dia:**	2.5-inch **Total Depth:** 23 feet
LOCATION INFORMATION		**WELL INFORMATION**	
Elevation (ft amsl):	529.4 **Easting:** 589286.14	**Top of Concrete**	NA **Screen Type/Dia:** S40 PVC/2"
	Northing: 902473.26	**Top of PVC**	529.29 **Slot Size:** 0.010"

Barton & Loguidice, Inc. **FORMER GAESS HARRIMAN ENVIRONMENTAL S.C.A. SITE** BORING NO: MW-5

Depth	Sample Type	USCS	Description	PID (ppm)	Sample Int.	Recovery	Notes / *Well Construction*
1–3	Macro-Core Sampler	SW	0.0-3.0 : Brown fine SAND, trace Organics from 0.0-0.1 (roots, grass), loose, dry to wet at 1'	0.0	0'-5'	3/5	Stick Up Casing and Grout from Surface to 8'
4			3.0-5.0 : No Recovery				
5–8		SW	5.0-9.0 : Brown fine SAND, loose, wet	0.0 0.0	5'-10'	4/5	Bentonite 8'-10'
9–10			9.0-10.0 : No Recovery				
11–14		SW	10.0-15.0 : Brown fine SAND, loose, wet	0.0 0.0 0.0	10'-15'	5/5	Sand Pack 10'-13' ECT Pre-packed Well Screen 13'-23'
15							

Barton & Loguidice, Inc. **FORMER GAESS HARRIMAN ENVIRONMENTAL S.C.A. SITE** BORING NO: MW-5

Depth	Sample Type	USCS	Description	PID (ppm)	Sample Int.	Recovery	Notes / *Well Construction*
15	Macro-Core Sampler	SW	15.0-19.5 : Brown fine SAND, loose, wet	0.0	15'-20'	4.5/5	ECT Pre-packed Well Screen 13'-23'
16				0.0			
17				0.0			
18				0.0			
19							
20			19.5-20.0 : No Recovery				
21		SW	20.0-23.0 : Brown fine SAND, loose, wet	0.0	20'-23'	3/3	
22				0.0			
23							

End of Boring 23 feet below ground surface due to drilling refusal

SITE CHARACTERIZATION
SUBSURFACE INVESTIGATION LOG

BORING NO. **MW-6**

Project No. **1242.093.031**

PROJECT INFORMATION		**DRILLING INFORMATION**	
Project:	Former Gaess Environmental S.C.A. Site	**Drilling Co:**	Core Down Drilling, LLC
Client:	CWM Chemical Services LLC	**Driller:**	Bill (Driller) and Andrew (Helper)
Site Location:	1 Meadow Ave, Harriman, NY 10926	**Rig Type:**	Geoprobe 7822DT
Job No:	1242.093.031	**Drilling Method(s):**	Direct Push
Project Manager:	Greg Lesniak, P.G.	**Hammer Wt/Drop:**	N/A
Logged By:	Donald Howe	**Hammer Type:**	N/A
Dates Drilled:	April 28, 2026	**Borehole Dia:**	2.5-inch **Total Depth** 37.5 feet
LOCATION INFORMATION		**WELL INFORMATION**	
Elevation (ft amsl):	552.6 **Easting:** 589086.53	**Top of Concrete**	NA **Screen Type/Dia:** S40 PVC/2"
	Northing: 902320.74	**Top of PVC**	556.24 **Slot Size:** 0.010"

Barton & Loguidice, Inc. **FORMER GAESS HARRIMAN ENVIRONMENTAL S.C.A. SITE** BORING NO: MW-6

Depth	Sample Type	USCS	Description	PID (ppm)	Sample Int.	Recovery	Notes / *Well Construction*
	Macro-Core Sampler	ML	Dark Brown SILT, some Organics (grass, roots, wood), medium dense, dry	0.0	0'-5'	1.5/5	Stick Up Casing and Grout from Surface to 22'
			0.4-0.5 : Gray Sandstone Cobble, dry	0.0			
1		SP	0.5-1.5 : Brown fine to medium SAND, trace fine Gravel, loose, dry	0.0			
2							
3			1.5-5.0 : No Recovery				
4							
5							
6		SP	5.0-6.5 : Brown fine to medium SAND, trace Cobble, loose, dry	0.0	5'-10'	2.5/5	
7		SP	6.5-7.2 : Brown fine/medium/coarse SAND, trace fine to medium Gravel, loose, dry	0.0			
		SW	7.2-7.5 : Brown fine SAND, loose, dry	0.0			
8							
9			7.5-10.0 : No Recovery				
10							
				0.0	10'-15'	3/5	
11		SW	10.0-13.0 : Brown fine SAND, little fine to medium Gravel, loose, dry	0.0			
12				0.0			
13							
14			13.0-15.0 : No Recovery				
15							
16		SW	15.0-18.0 : Same As Above, Sandstone (pulverized and fragments) from 17.0-17.1	0.0	15'-20'	3/5	

Barton & Loguidice, Inc. **FORMER GAESS HARRIMAN ENVIRONMENTAL S.C.A. SITE** BORING NO: MW-6

Depth	Sample Type	USCS	Description	PID (ppm)	Sample Int.	Recovery	Notes / *Well Construction*
16	Macro-Core Sampler	SW	15.0-18.0 : Same As Above, Sandstone (pulverized and fragments) from 17.0-17.1	0.0	15'-20'	3/5	
17				0.0			
18			18.0-20.0 : No Recovery				
19							
20		SW	20.0-21.3 : Brown fine SAND, little fine to medium Gravel, loose, moist	0.0	20'-25'	1.6/5	
21		SP	21.3-21.6 : Brown fine/medium/coarse SAND, trace fine Gravel, loose, wet	0.0			
22			21.6-25.0 : No Recovery				Bentonite 22'-24'
23							
24							
25		SP	25.0-27.5 : Same As Above with two fine Sand layers (25.8-26.1 and 26.3-26.6)	0.0	25'-30'	2.5/5	Sand Pack 24'-27'
26				0.0			
27			27.5-30.0 : No Recovery				ECT Pre-packed Well Screen 27'-37'
28							
29							
30		SP	30.0-30.9 : Brown medium to coarse SAND, trace fine Sand, trace fine/medium/coarse Gravel, loose, wet	0.0	30'-35'	1.6/5	
31		GP	30.9-31.6 : Brown medium to coarse GRAVEL, trace fine Gravel, some coarse Sand, loose, very wet	0.0			
32			31.6-35.0 : No Recovery				
33							
34							
35							
35		GP	35.0-36.4 : Brown medium to coarse GRAVEL, trace fine Gravel, trace Silt, some fine to coarse Sand, loose, very wet	0.0	35'-37.5'	1.4/2.5	
36				0.0			
37			36.4-37.5 : No Recovery				

End of Boring 37.5 feet below ground surface

WELL DEVELOPMENT LOG

Project: Guess Harriman

Job Number: 1242.093.031

Monitoring location: MW-3

Development method(s): Dedicated PFAS-Free Bailer, New

Date of activity: 5/5/2026

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Stickup Height (ft)	Well Volume (gal)
	5.16	19	9	10	2	N/A	2.25
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (°C/°F)	Sp. Cond. (µS/cm)	pH	Quantity Purged (~~liters~~ gal. cumulative)	Stage	Visual/ Olfactory Notes
5/5/2026	1043	837	17.88	1.13	7.26	0.25	Start	Dark Brown, Very Turbid
	1053	761	15.84	1.14	7.25	2.00		
	1103	1000+	13.98	1.23	7.20	3.00		
	1113	1000+	14.79	1.25	7.16	4.25		
	1123	1000+	14.03	1.27	7.18	6.00		
	1133	1000+	13.95	1.28	7.17	8.50		
	1143	1000+	13.73	1.28	7.13	11.50		
	1150	1000+	13.51	1.29	7.17	15.00	End	Brown, lighter, Turbid

Notes: No product identified, development completed after 15 gallons purged

Total Volume Purged: 15 gallons

Samplers: DRH

WELL DEVELOPMENT LOG

Project: Gaess Harriman

Job Number: 1242.093.031

Monitoring location: MW-6

Development method(s): Dedicated PFAS-Free Bailer, New

Date of activity: 5/5/2026

Well information:	Static Water Level (ft) bgs	Total Depth (ft) bgs	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Stickup Height (ft)	Well Volume (gal)
	25.06	37	27	10	2	3.6	1.95
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (°C/°F)	Sp. Cond. (µS/cm)	pH	Quantity Purged (~~Liters~~/Gal. cumulative)	Stage	Visual/ Olfactory Notes
5/5/2026	1300	1000+	20.05	1.36	7.75	0.25	Start	Brown, slight orange very Turbid
	1310	1000+	18.82	1.32	7.65	2.5		
	1320	1000+	14.57	1.18	7.49	5.0		
	1330	1000+	14.23	1.16	7.57	6.75		
	1340	1000+	17.61	1.26	7.63	9.0		
	1350	1000+	17.98	1.27	7.70	11.0		
	1400	1000+	18.13	1.31	7.75	13.0		
	1405	1000+	17.36	1.26	7.78	15.0	End	Light Brown, Turbid

Notes: No product identified, development completed after 15 gallons purged.

Total Volume Purged: 15 gallons

Samplers: DRH

WELL DEVELOPMENT LOG

Project: Graess Harriman

Job Number: 1242.093.031

Monitoring location: MW-5

Development method(s): New Dedicated PFAS-Free Bailer

Date of activity: 5/5/2026

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Stickup Height (ft)	Well Volume (gal)
	3.65	23	13	10	2	N/A	3.1
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (°C/°F)	Sp. Cond. (µS/cm)	pH	Quantity Purged (~~liters~~, gal. cumulative)	Stage	Visual/ Olfactory Notes
5/5/2026	1455	1000 +	16.20	0.850	7.45	0.25	Start	Dark Brown, Turbid
↓	1505	1000 +	15.82	0.850	7.22	3.00		
	1515	1000 +	15.02	0.989	7.22	6.00		
	1525	1000 +	15.04	1.06	7.17	9.00		
	1535	1000 +	15.10	1.06	7.18	12.50		
	1540	1000 +	14.69	1.05	7.17	15.00	End	Brown, Turbid

Notes: No product identified, development completed after 15 gallons purged

Total Volume Purged: 15 gallons

Samplers: DRH

WELL DEVELOPMENT LOG

Project: Gaess Harriman

Job Number: 1242.093.031

Monitoring location: MW-2

Development method(s): New Dedicated PFAs-Free Bailer

Date of activity: 5/6/2026

Well information:	Static Water Level (ft) bgs	Total Depth (ft) bgs	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Stickup Height (ft)	Well Volume (gal)
	14.90	24.00	Unknown	Unknown	2	1.89	1.5
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (°C/°F)	Sp. Cond. (µS/cm)	pH	Quantity Purged (liters/gal. cumulative)	Stage	Visual/ Olfactory Notes
5/6/2026	0755	1000+	15.34	1.21	6.86	0.25	Start	Light Brown, Turbid
5/6/2026	0804	1000+	12.88	1.17	7.05	2.50	Dry	Brown, Turbid

Notes: No product identified, MW-2 dry after 2.5 gallons purged

Total Volume Purged: 2.50 gallons

Samplers: DRH

WELL DEVELOPMENT LOG

Project: Gaess Harriman

Job Number: 1242.093.031

Monitoring location: MW-4

Development method(s): New Dedicated PFAS-Free Bailer

Date of activity: 5/6/2026

Well information:	Static Water Level (ft) bgs	Total Depth (ft) bgs	Depth to top of screen (ft) bgs	Screen length (ft)	Well Diameter (in)	Stickup Height (ft)	Well Volume (gal)
	9.13	15	10	5	2	3.25	0.45
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (°C/°F)	Sp. Cond. (µS/cm)	pH	Quantity Purged ~~(liters, gal.~~ cumulative)	Stage	Visual/ Olfactory Notes
5/6/2026	0845	1000+	13.51	1.31	7.15	0.25	Start	Brown, Very Turbid
	0855	1000+	~~F~~ 12.45	1.32	7.15	1.25		
	0905	1000+	13.17	1.35	7.10	2.25		
	0915	1000+	12.40	1.34	7.10	3.25		
	0925	1000+	12.27	1.34	7.11	5.00		
	0935	380	12.37	1.33	7.08	6.75		
	0945	123	12.61	1.32	7.07	8.00		
	0955	57.4	12.79	1.33	7.10	9.50	Dry	Clear, very little fines

Notes: No product identified, MW-4 dry after 9.5 gallons purged

Total Volume Purged: 9.50 gallons

Samplers: DRH

WELL DEVELOPMENT LOG

Project: Gaess Harriman

Job Number: 1242.093.031

Monitoring location: MW-1

Development method(s): New dedicated PFAS-Free Bailer

Date of activity: 5/6/2026

Well information:	Static Water Level (ft) bgs	Total Depth (ft) bgs	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Stickup Height (ft)	Well Volume (gal)
	9.70	19.45	Unknown	Unknown	2	2.77	1.6
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (°C/°F)	Sp. Cond. (µS/cm)	pH	Quantity Purged (~~liters~~,gal cumulative)	Stage	Visual/ Olfactory Notes
5/6/2026	1020	1000+	12.64	1.18	7.30	0.25	Start	Very Dark Brown/Black, very Turbid
	1030	1000+	11.85	1.16	7.28	2.00		
	1040	865	11.96	1.13	7.28	5.00		
	1050	835	11.79	1.14	7.22	8.50		
	1100	588	11.13	1.13	7.18	13.50		
	1105	293	11.32	1.11	7.12	15.00	End	Light Brown, Little fines/Turbid

Notes: No product identified, development complete after 15 gallons purged

Total Volume Purged: 15 gallons

Samplers: DRH

WELL DEVELOPMENT LOG

Project: Gaess Harriman

Job Number: 1242.093.031

Monitoring location: MW-3 *

Development method(s): New Dedicated PFAS-Free Bailer

Date of activity: 5/6/2026

Well information:	Static Water Level (ft)	Total Depth (ft)	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Stickup Height (ft)	Well Volume (gal)
	5.30	19	9	10	2	N/A	2.23
MP/Notes:							

Date	Time	Turbidity (NTU)	Temp. (°C/°F)	Sp. Cond. (µS/cm)	pH	Quantity Purged (~~liters~~,gal, cumulative)	Stage	Visual/ Olfactory Notes
5/6/2026	1135	1000+	13.37	1.26	7.18	0.25	Start	Brown, Turbid
	1145	1000+	13.19	1.24	7.16	2.25		
	1155	1000+	13.14	1.24	7.18	5.00		
	1205	1000+	13.16	1.25	7.17	7.75		
	1215	872	13.08	1.25	7.17	11.00		
	1225	744	12.88	1.23	7.17	13.25		
	1228	731	12.97	1.24	7.16	15.00	End	Light Brown, Less Turbid

Notes: * Additional development on MW-3, 15 gallons removed on 5/6/2026

Total Volume Purged: 15 gallons

Samplers: DRH

Barton & Loguidice, P.C.

Engineers • Environmental Scientists • Planners • Landscape Architects

STABILIZATION SAMPLING LOG

Project: Gaess Harriman

Monitoring location: MW-1

Sampling device(s): Bladder Pump

Date of sampling: 5/20/2026

Tubing diameter: 0.170" x 0.250"

Well information:	Static Water Level	Total Depth	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Pump placement depth (ft)	
	13.37	22.22	—	—	2	18	
MP/Notes:							

Clock Time	PH	Sp. Cond. (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Temp. °C	Water level (ft, MP)	Volume Purged (gal)
1336	7.32	1.39	180	4.45	91.6	17.07	13.37	0
1341	7.29	1.41	182	4.64	77.2	15.48	—	0.3
1346	7.25	1.41	186	4.02	64.2	13.23	13.35	0.6
1351	7.24	1.40	187	3.97	63.6	13.03	—	0.9
1356	7.23	1.39	189	3.95	62.2	12.73	—	1.2

Time sample collected: 1400

Notes: Clear, very little fines

Total volume purged: 1.5 gallons

Samplers: DRH / WPC

Barton & Loguidice, P.C.

Engineers • Environmental Scientists • Planners • Landscape Architects

STABILIZATION SAMPLING LOG

Project: Guess Harriman

Monitoring location: MW-2

Sampling device(s): Bladder Pump

Date of sampling: 5/21/2026

Tubing diameter: 0.170" × 0.250"

Well information:	Static Water Level	Total Depth	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Pump placement depth (ft)	
	15.10	24.00	—	—	2	21	
MP/Notes:							

Clock Time	PH	Sp. Cond. (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Temp. ~~°F~~ °C	Water level (ft, MP)	Volume Purged (gal)
1020	7.15	1.23	213	2.85	95.2	11.45	15.10	0
1025	7.19	1.24	211	2.45	74.3	10.92	—	0.3
1030	7.23	1.24	209	1.95	96.7	10.38	-	0.6
1035	7.23	1.24	211	1.71	114	10.06	-	0.9
1040	7.22	1.25	212	1.73	112	9.92	15.10	1.2
1045	7.23	1.25	214	1.72	110	9.86	-	1.5

Time sample collected: 1050

Notes: Slightly brown, cloudy, fines

Total volume purged: 2.0 gallons

Samplers: DRH / WPC

Barton & Loguidice, P.C.

Engineers • Environmental Scientists • Planners • Landscape Architects

STABILIZATION SAMPLING LOG

Project: Gross Harriman

Monitoring location: MW-3

Sampling device(s): Bladder Pump

Date of sampling: 5/20/2026

Tubing diameter: 0.170" x 0.250"

Well information:	Static Water Level	Total Depth	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Pump placement depth (ft)	
	5.83	19	9	10	2	11	
MP/Notes:							

Clock Time	PH	Sp. Cond. (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Temp. (°F °C)	Water level (ft, MP)	Volume Purged (gal)
1502	7.09	1.20	208	8.48	582	13.78	5.83	0
1507	7.09	1.21	209	8.20	463	13.41	–	0.3
1512	7.09	1.21	217	7.85	158	12.47	–	0.6
1517	7.10	1.21	220	7.76	90	12.22	–	0.9
1522	7.09	1.22	223	7.73	60	12.12	5.82	1.2
1527	7.09	1.22	226	7.63	60.2	11.95	–	1.5
1532	7.08	1.22	226	7.65	59.8	11.95	–	1.8

Time sample collected: 1535

Notes: ms/msD collected here. Very light Brown, fines

Total volume purged: 2 gallons

Samplers: DRH / WPL

Barton & Loguidice, P.C.

Engineers · Environmental Scientists · Planners · Landscape Architects

STABILIZATION SAMPLING LOG

Project: Gaess Harriman

Monitoring location: MW-4

Sampling device(s): Bladder Pump

Date of sampling: 5/20/2026

Tubing diameter: 0.170" x 0.250"

Well information:	Static Water Level	Total Depth	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Pump placement depth (ft)	
	12.68	15	10	5	2	14	
MP/Notes:							

Clock Time	PH	Sp. Cond. (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Temp. (~~F~~°C)	Water level (ft, MP)	Volume Purged (gal)
1220	7.32	1.45	209	6.19	595	18.50	12.68	0
1225	7.28	1.52	196	5.48	383	14.95	—	0.3
1230	7.28	1.53	152	5.41	253	13.86	—	0.6
1235	7.28	1.53	60	5.75	123	13.20	—	0.9
1240	7.29	1.53	58	5.81	118	12.93	12.70	1.2
1245	7.29	1.53	49	5.98	69.7	12.68	—	1.5
1250	7.29	1.54	44	5.99	65.3	12.63	12.71	1.8
1255	7.29	1.54	43	6.01	63.6	12.43	—	2.1

Time sample collected: 1258

Total volume purged: 2.25

Notes: Slightly Brown, little fines

Samplers: DRH/WPC

Barton & Loguidice, P.C.

Engineers · Environmental Scientists · Planners · Landscape Architects

STABILIZATION SAMPLING LOG

Project: Grass Harriman

Monitoring location: MW-5

Sampling device(s): Bladder Pump

Date of sampling: 5/26/2026

Tubing diameter: 0.170" x 0.250"

Well information:	Static Water Level	Total Depth	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Pump placement depth (ft)	
	3.91	23	13	10	2	15	
MP/Notes:							

Clock Time	PH	Sp. Cond. (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Temp. °C	Water level (ft, MP)	Volume Purged (gal)
1051	6.56	0.374	212	5.87	567	20.10	3.91	0
1056	6.57	0.429	209	5.08	663	18.02	—	0.3
1101	6.62	0.554	210	4.43	565	16.33	—	0.6
1106	6.67	0.603	208	4.51	496	15.70	3.91	0.9
1111	6.69	0.614	207	4.55	477	15.31	—	1.2
1116	6.71	0.623	206	4.53	449	15.19	—	1.5
1121	6.73	0.627	207	4.56	428	15.21	—	1.8

Time sample collected: 1125

Total volume purged: 2 gallons

Notes: Dup-1 collected here. Slightly Brown, cloudy, fines

Samplers: DRH / WPC

Barton & Loguidice, P.C.

Engineers • Environmental Scientists • Planners • Landscape Architects

STABILIZATION SAMPLING LOG

Project: Guess Harriman

Monitoring location: MW-6

Sampling device(s): Bladder Pump

Date of sampling: 5/21/2026

Tubing diameter: 0.170" x 0.250"

Well information:	Static Water Level	Total Depth	Depth to top of screen (ft)	Screen length (ft)	Well Diameter (in)	Pump placement depth (ft)	
	29.63	37	27	10	2	34	
MP/Notes:							

Clock Time	PH	Sp. Cond. (mS/cm)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Temp. °C	Water level (ft, MP)	Volume Purged (gal)
1144	7.13	1.17	223	7.95	252	11.96	29.63	0
1149	7.12	1.18	229	7.83	109	11.67	—	0.3
1154	7.11	1.18	233	7.76	62	11.58	—	0.6
1159	7.12	1.18	236	7.76	61	11.55	29.63	0.9
1204	7.12	1.19	237	7.75	60	11.55	-	1.2

Time sample collected: 1215

Notes: Very slightly cloudy w/ fines, clear color

Total volume purged: 1.5 gallons

Samplers: DRH / WPC

Appendix B
Pace® Laboratory Report

ANALYTICAL REPORT

Lab Number:	L2631485
Client:	Barton & Loguidice, P.C 443 Electronics Pkwy Liverpool, NY 13088
ATTN:	Greg Lesniak
Phone:	(315) 457-5200
Project Name:	GAESS HARRIMAN SITE CHARACTERI
Project Number:	1242.093.031
Report Date:	06/15/26

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2631485-01	MW-5	WATER	HARRIMAN, NY	05/20/26 11:25	05/21/26
L2631485-02	MW-4	WATER	HARRIMAN, NY	05/20/26 12:58	05/21/26
L2631485-03	MW-1	WATER	HARRIMAN, NY	05/20/26 14:00	05/21/26
L2631485-04	MW-3	WATER	HARRIMAN, NY	05/20/26 15:35	05/21/26
L2631485-05	FIELD BLANK	WATER	HARRIMAN, NY	05/20/26 15:50	05/21/26
L2631485-06	EQUIPMENT BLANK-1	WATER	HARRIMAN, NY	05/20/26 16:05	05/21/26
L2631485-07	DUP-1	WATER	HARRIMAN, NY	05/20/26 00:00	05/21/26
L2631485-08	MH-1A	WATER	HARRIMAN, NY	05/21/26 09:45	05/21/26
L2631485-09	MW-2	WATER	HARRIMAN, NY	05/21/26 10:50	05/21/26
L2631485-10	MW-6	WATER	HARRIMAN, NY	05/21/26 12:15	05/21/26
L2631485-11	EQUIPMENT BLANK-2	WATER	HARRIMAN, NY	05/21/26 12:40	05/21/26
L2631485-12	FIELD BLANK	WATER	HARRIMAN, NY	05/20/26 15:43	05/21/26

Project Name:	GAESS HARRIMAN SITE CHARACTERI	**Lab Number:**	L2631485
Project Number:	1242.093.031	**Report Date:**	06/15/26

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	GAESS HARRIMAN SITE CHARACTERI	**Lab Number:**	L2631485
Project Number:	1242.093.031	**Report Date:**	06/15/26

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2631485-12: A sample identified as "FIELD BLANK" was received, but not listed on the chain of custody. At the client's request, this sample was not analyzed.

Perfluorinated Alkyl Acids by 1633

L2631485-01: The Extracted Internal Standard recovery was below the acceptance criteria for n-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-nmefosaa) (37%); however, the associated target analytes are not reported from this analysis.

L2631485-01RE: The sample was re-extracted at lesser volume due to EIS failure in the original extraction. The results of the re-extraction are reported for the associated target compounds.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 06/15/26

QC OUTLIER SUMMARY REPORT

Project Name: GAESS HARRIMAN SITE CHARACTERI

Project Number: 1242.093.031

Lab Number: L2631485

Report Date: 06/15/26

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab								
1633A	MW-5	L2631485-01	N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	Surrogate	37	40-170	-	- - not applicable - -

ORGANICS

SEMIVOLATILES

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-01
Client ID: MW-5
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 11:25
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 16:10
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	288	87.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	35		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-01
Client ID: MW-5
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 11:25
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 16:09
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	4.15	J	ng/l	5.35	3.58	1
Perfluoropentanoic Acid (PFPeA)	4.92		ng/l	2.68	0.535	1
Perfluorobutanesulfonic Acid (PFBS)	5.18		ng/l	1.34	0.428	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.35	1.24	1
Perfluorohexanoic Acid (PFHxA)	4.84		ng/l	1.34	1.10	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.34	0.308	1
Perfluoroheptanoic Acid (PFHpA)	2.50		ng/l	1.34	0.415	1
Perfluorohexanesulfonic Acid (PFHxS)	2.88		ng/l	1.34	0.589	1
Perfluorooctanoic Acid (PFOA)	13.4		ng/l	1.34	0.334	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.35	3.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.34	0.415	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.34	0.214	1
Perfluorooctanesulfonic Acid (PFOS)	10.4		ng/l	1.34	1.03	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.34	0.348	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.35	2.56	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.34	0.441	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.34	0.589	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.34	0.629	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.34	0.762	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.34	0.615	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.34	0.669	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.34	0.615	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.34	0.977	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.35	0.789	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.35	1.04	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.34	0.629	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-01 Date Collected: 05/20/26 11:25

Client ID: MW-5 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.35	1.04	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.35	2.65	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.34	0.522	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.34	0.388	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	1.46	J	ng/l	13.4	1.42	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1.83	J	ng/l	13.4	1.20	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.68	0.120	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.68	0.696	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.68	0.334	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.68	0.789	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	6.69	1.72	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	33.4	9.60	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	33.4	10.1	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-01 Date Collected: 05/20/26 11:25

Client ID: MW-5 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	68		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	75		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	73		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	73		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	75		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	86		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	66		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	63		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	72		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	72		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	44		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	63		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	58		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	**37**	Q	40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	59		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	50		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	41		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	45		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	37		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	65		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	49		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	47		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	59		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	52		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-01 RE
Client ID: MW-5
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 11:25
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/14/26 18:24
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 06/14/26 08:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	8.00	5.76	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-01 RE Date Collected: 05/20/26 11:25

Client ID: MW-5 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	99		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	105		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	92		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	89		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	103		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	100		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	96		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	99		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	96		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	89		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	97		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	93		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	92		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	94		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	83		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	85		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	88		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	75		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	104		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	64		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	67		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	87		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	85		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-02
Client ID: MW-4
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 12:58
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 16:32
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	300	90.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	36		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-02
Client ID: MW-4
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 12:58
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 16:18
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.34		ng/l	5.46	3.66	1
Perfluoropentanoic Acid (PFPeA)	8.66		ng/l	2.73	0.546	1
Perfluorobutanesulfonic Acid (PFBS)	5.02		ng/l	1.36	0.436	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.46	1.27	1
Perfluorohexanoic Acid (PFHxA)	5.36		ng/l	1.36	1.12	1
Perfluoropentanesulfonic Acid (PFPeS)	0.559	J	ng/l	1.36	0.314	1
Perfluoroheptanoic Acid (PFHpA)	2.34		ng/l	1.36	0.423	1
Perfluorohexanesulfonic Acid (PFHxS)	4.12		ng/l	1.36	0.600	1
Perfluorooctanoic Acid (PFOA)	6.11		ng/l	1.36	0.341	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.46	3.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.36	0.423	1
Perfluorononanoic Acid (PFNA)	0.464	J	ng/l	1.36	0.218	1
Perfluorooctanesulfonic Acid (PFOS)	12.1		ng/l	1.36	1.05	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.36	0.355	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.46	2.60	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.36	0.450	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.36	0.982	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.36	0.600	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.36	0.641	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.36	0.777	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.36	0.627	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.36	0.682	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.36	0.627	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.36	0.996	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.46	0.805	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.46	1.06	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-02 Date Collected: 05/20/26 12:58

Client ID: MW-4 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.36	0.641	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.46	1.06	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.46	2.70	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.36	0.532	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.36	0.396	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	13.6	1.44	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	13.6	1.23	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.73	0.123	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.73	0.709	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.73	0.341	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.73	0.805	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	6.82	1.76	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	34.1	9.79	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	34.1	10.3	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-02 Date Collected: 05/20/26 12:58

Client ID: MW-4 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	79		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	82		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	111		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	82		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	96		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	82		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	86		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	101		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	96		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	66		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	68		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	65		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	46		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	63		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	60		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	52		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	51		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	49		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	72		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	43		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	46		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	58		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	51		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-03
Client ID: MW-1
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 14:00
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 16:54
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	288	87.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	36		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-03
Client ID: MW-1
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 14:00
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 16:27
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	7.54		ng/l	5.33	3.57	1
Perfluoropentanoic Acid (PFPeA)	9.08		ng/l	2.66	0.533	1
Perfluorobutanesulfonic Acid (PFBS)	5.62		ng/l	1.33	0.426	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.33	1.24	1
Perfluorohexanoic Acid (PFHxA)	5.61		ng/l	1.33	1.09	1
Perfluoropentanesulfonic Acid (PFPeS)	0.426	J	ng/l	1.33	0.306	1
Perfluoroheptanoic Acid (PFHpA)	2.62		ng/l	1.33	0.413	1
Perfluorohexanesulfonic Acid (PFHxS)	4.01		ng/l	1.33	0.586	1
Perfluorooctanoic Acid (PFOA)	6.33		ng/l	1.33	0.333	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.33	3.20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.33	0.413	1
Perfluorononanoic Acid (PFNA)	0.453	J	ng/l	1.33	0.213	1
Perfluorooctanesulfonic Acid (PFOS)	12.6		ng/l	1.33	1.02	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.33	0.346	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.33	2.54	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.33	0.440	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.33	0.959	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.33	0.586	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.33	0.626	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.33	0.759	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.33	0.613	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.33	0.666	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.33	0.613	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.33	0.972	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.33	0.786	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.33	1.04	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-03 Date Collected: 05/20/26 14:00

Client ID: MW-1 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.33	0.626	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.33	1.04	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.33	2.64	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.33	0.519	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.33	0.386	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	13.3	1.41	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	13.3	1.20	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.66	0.120	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.66	0.692	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.66	0.333	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.66	0.786	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	6.66	1.72	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	33.3	9.56	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	33.3	10.0	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-03 Date Collected: 05/20/26 14:00

Client ID: MW-1 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	74		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	80		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	79		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	83		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	80		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	96		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	81		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	80		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	82		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	85		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	58		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	67		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	66		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	46		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	67		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	51		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	52		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	46		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	39		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	67		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	43		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	42		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	62		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	51		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-04
Client ID: MW-3
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 15:35
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 17:15
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	300	90.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	41		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-04
Client ID: MW-3
Sample Location: HARRIMAN, NY
Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 16:58
Analyst: PNB

Date Collected: 05/20/26 15:35
Date Received: 05/21/26
Field Prep: Not Specified
Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	5.67	3.80	1
Perfluoropentanoic Acid (PFPeA)	6.39		ng/l	2.84	0.567	1
Perfluorobutanesulfonic Acid (PFBS)	4.15		ng/l	1.42	0.454	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.67	1.32	1
Perfluorohexanoic Acid (PFHxA)	4.18		ng/l	1.42	1.16	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.42	0.326	1
Perfluoroheptanoic Acid (PFHpA)	2.68		ng/l	1.42	0.439	1
Perfluorohexanesulfonic Acid (PFHxS)	3.13		ng/l	1.42	0.624	1
Perfluorooctanoic Acid (PFOA)	7.29		ng/l	1.42	0.354	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.67	3.40	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.42	0.439	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.42	0.227	1
Perfluorooctanesulfonic Acid (PFOS)	12.4		ng/l	1.42	1.09	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.42	0.368	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.67	2.71	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.42	0.468	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.42	1.02	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.42	0.624	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.42	0.666	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.42	0.808	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.42	0.652	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.42	0.709	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.42	0.652	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.42	1.03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.67	0.836	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.67	1.10	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-04 Date Collected: 05/20/26 15:35

Client ID: MW-3 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.42	0.666	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.67	1.10	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.67	2.81	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.42	0.553	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.42	0.411	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.2	1.50	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.2	1.28	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.84	0.128	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.84	0.737	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.84	0.354	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.84	0.836	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.09	1.83	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	35.4	10.2	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	35.4	10.7	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-04 Date Collected: 05/20/26 15:35

Client ID: MW-3 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	81		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	93		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	93		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	93		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	94		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	106		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	88		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	82		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	94		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	72		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	79		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	65		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	53		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	77		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	63		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	59		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	65		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	66		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	79		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	64		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	67		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	77		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	69		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-05
Client ID: FIELD BLANK
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 15:50
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 18:20
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	268	81.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	38		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-05
Client ID: FIELD BLANK
Sample Location: HARRIMAN, NY
Date Collected: 05/20/26 15:50
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 17:25
Analyst: PNB
Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	5.47	3.66	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.73	0.547	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.37	0.437	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.47	1.27	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.37	1.12	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.37	0.314	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.37	0.424	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.37	0.601	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.37	0.342	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.47	3.28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.37	0.424	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.37	0.219	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.37	1.05	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.37	0.355	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.47	2.61	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.37	0.451	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.37	0.984	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.37	0.601	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.37	0.642	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.37	0.779	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.37	0.629	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.37	0.683	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.37	0.629	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.37	0.998	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.47	0.806	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.47	1.07	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-05 Date Collected: 05/20/26 15:50

Client ID: FIELD BLANK Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.37	0.642	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.47	1.07	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.47	2.71	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.37	0.533	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.37	0.396	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	13.7	1.45	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	13.7	1.23	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.73	0.123	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.73	0.711	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.73	0.342	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.73	0.806	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	6.83	1.76	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	34.2	9.81	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	34.2	10.3	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-05 Date Collected: 05/20/26 15:50

Client ID: FIELD BLANK Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	81		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	81		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	89		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	90		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	86		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	108		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	86		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	87		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	82		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	98		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	69		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	82		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	71		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	48		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	77		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	66		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	53		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	64		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	55		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	73		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	48		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	49		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	79		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	72		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-06
Client ID: EQUIPMENT BLANK-1
Sample Location: HARRIMAN, NY

Date Collected: 05/20/26 16:05
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 18:42
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	268	81.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	35		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-06
Client ID: EQUIPMENT BLANK-1
Sample Location: HARRIMAN, NY
Date Collected: 05/20/26 16:05
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 17:34
Analyst: PNB
Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	5.85	3.92	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.92	0.585	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.46	0.468	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.85	1.36	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.46	1.20	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.46	0.336	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.46	0.453	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.46	0.643	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.46	0.366	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.85	3.51	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.46	0.453	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.46	0.234	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.46	1.12	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.46	0.380	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.85	2.79	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.46	0.482	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.46	1.05	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.46	0.643	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.46	0.687	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.46	0.834	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.46	0.673	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.46	0.731	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.46	0.673	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.46	1.07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.85	0.863	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.85	1.14	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-06 Date Collected: 05/20/26 16:05

Client ID: EQUIPMENT BLANK-1 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.46	0.687	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.85	1.14	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.85	2.90	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.46	0.570	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.46	0.424	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.6	1.55	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.6	1.32	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.92	0.132	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.92	0.760	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.92	0.366	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.92	0.863	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.31	1.89	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	36.6	10.5	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	36.6	11.0	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-06 Date Collected: 05/20/26 16:05

Client ID: EQUIPMENT BLANK-1 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	83		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	88		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	95		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	88		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	87		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	104		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	94		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	94		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	86		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	107		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	80		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	92		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	79		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	62		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	89		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	78		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	70		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	79		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	72		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	80		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	59		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	63		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	97		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	85		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-07
Client ID: DUP-1
Sample Location: HARRIMAN, NY
Date Collected: 05/20/26 00:00
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 19:04
Analyst: DMC
Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	300	90.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	36		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-07
Client ID: DUP-1
Sample Location: HARRIMAN, NY
Date Collected: 05/20/26 00:00
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 17:43
Analyst: PNB
Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	3.86	J	ng/l	5.77	3.86	1
Perfluoropentanoic Acid (PFPeA)	4.77		ng/l	2.88	0.577	1
Perfluorobutanesulfonic Acid (PFBS)	5.22		ng/l	1.44	0.462	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.77	1.34	1
Perfluorohexanoic Acid (PFHxA)	5.16		ng/l	1.44	1.18	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.44	0.332	1
Perfluoroheptanoic Acid (PFHpA)	2.28		ng/l	1.44	0.447	1
Perfluorohexanesulfonic Acid (PFHxS)	2.41		ng/l	1.44	0.635	1
Perfluorooctanoic Acid (PFOA)	11.2		ng/l	1.44	0.361	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.77	3.46	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.44	0.447	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.44	0.231	1
Perfluorooctanesulfonic Acid (PFOS)	8.57		ng/l	1.44	1.11	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.44	0.375	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.77	2.76	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.44	0.476	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.44	1.04	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.44	0.635	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.44	0.678	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.44	0.822	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.44	0.664	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.44	0.721	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.44	0.664	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.44	1.05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.77	0.851	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.77	1.12	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-07 Date Collected: 05/20/26 00:00

Client ID: DUP-1 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.44	0.678	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.77	1.12	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.77	2.86	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.44	0.562	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.44	0.418	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	14.4	1.53	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	14.4	1.30	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.88	0.130	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.88	0.750	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.88	0.361	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.88	0.851	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.21	1.86	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	36.1	10.4	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	36.1	10.9	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-07 Date Collected: 05/20/26 00:00

Client ID: DUP-1 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	83		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	89		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	100		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	95		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	88		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	101		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	102		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	92		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	111		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	79		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	85		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	79		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	57		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	88		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	69		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	63		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	71		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	71		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	82		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	66		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	72		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	82		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	72		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-08
Client ID: MH-1A
Sample Location: HARRIMAN, NY

Date Collected: 05/21/26 09:45
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 19:25
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	288	87.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	37		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-08
Client ID: MH-1A
Sample Location: HARRIMAN, NY
Date Collected: 05/21/26 09:45
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 17:52
Analyst: PNB
Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	5.76		ng/l	5.58	3.74	1
Perfluoropentanoic Acid (PFPeA)	11.1		ng/l	2.79	0.558	1
Perfluorobutanesulfonic Acid (PFBS)	4.07		ng/l	1.39	0.446	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.58	1.30	1
Perfluorohexanoic Acid (PFHxA)	7.16		ng/l	1.39	1.14	1
Perfluoropentanesulfonic Acid (PFPeS)	0.446	J	ng/l	1.39	0.321	1
Perfluoroheptanoic Acid (PFHpA)	3.11		ng/l	1.39	0.432	1
Perfluorohexanesulfonic Acid (PFHxS)	6.37		ng/l	1.39	0.614	1
Perfluorooctanoic Acid (PFOA)	8.06		ng/l	1.39	0.349	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.58	3.35	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.39	0.432	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.39	0.223	1
Perfluorooctanesulfonic Acid (PFOS)	19.1		ng/l	1.39	1.07	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.39	0.363	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.58	2.66	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.39	0.460	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.39	1.00	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.39	0.614	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.39	0.656	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.39	0.795	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.39	0.642	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.39	0.697	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.39	0.642	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.39	1.02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.58	0.823	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.58	1.09	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-08 Date Collected: 05/21/26 09:45

Client ID: MH-1A Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.39	0.656	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.58	1.09	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.58	2.76	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.39	0.544	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.39	0.404	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	13.9	1.48	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	13.9	1.26	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.79	0.126	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.79	0.725	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.79	0.349	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.79	0.823	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	6.97	1.80	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	34.9	10.0	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	34.9	10.5	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-08 Date Collected: 05/21/26 09:45

Client ID: MH-1A Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	85		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	94		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	106		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	98		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	96		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	111		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	110		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	94		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	102		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	79		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	87		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	79		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	58		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	88		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	81		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	73		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	80		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	76		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	83		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	63		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	71		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	92		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	82		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-09
Client ID: MW-2
Sample Location: HARRIMAN, NY

Date Collected: 05/21/26 10:50
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 19:47
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	278	84.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	38		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-09
Client ID: MW-2
Sample Location: HARRIMAN, NY

Date Collected: 05/21/26 10:50
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 18:01
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	5.52	J	ng/l	6.03	4.04	1
Perfluoropentanoic Acid (PFPeA)	9.89		ng/l	3.02	0.603	1
Perfluorobutanesulfonic Acid (PFBS)	4.73		ng/l	1.51	0.482	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.03	1.40	1
Perfluorohexanoic Acid (PFHxA)	6.90		ng/l	1.51	1.24	1
Perfluoropentanesulfonic Acid (PFPeS)	0.769	J	ng/l	1.51	0.347	1
Perfluoroheptanoic Acid (PFHpA)	3.18		ng/l	1.51	0.467	1
Perfluorohexanesulfonic Acid (PFHxS)	6.80		ng/l	1.51	0.663	1
Perfluorooctanoic Acid (PFOA)	6.56		ng/l	1.51	0.377	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.03	3.62	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.51	0.467	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.51	0.241	1
Perfluorooctanesulfonic Acid (PFOS)	14.2		ng/l	1.51	1.16	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.51	0.392	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.03	2.88	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.51	0.498	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.51	1.08	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.51	0.663	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.51	0.709	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.51	0.859	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.51	0.694	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.51	0.754	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.51	0.694	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.51	1.10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.03	0.890	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.03	1.18	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-09 Date Collected: 05/21/26 10:50

Client ID: MW-2 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.51	0.709	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.03	1.18	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.03	2.98	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.51	0.588	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.51	0.437	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.1	1.60	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.1	1.36	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.02	0.136	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.02	0.784	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.02	0.377	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.02	0.890	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.54	1.94	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	37.7	10.8	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	37.7	11.4	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-09 Date Collected: 05/21/26 10:50

Client ID: MW-2 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	77		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	79		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	78		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	82		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	76		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	86		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	81		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	83		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	95		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	68		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	85		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	75		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	52		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	87		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	72		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	64		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	78		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	78		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	75		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	70		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	77		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	84		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	78		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-10
Client ID: MW-6
Sample Location: HARRIMAN, NY

Date Collected: 05/21/26 12:15
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 20:08
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	300	90.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	38		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-10
Client ID: MW-6
Sample Location: HARRIMAN, NY

Date Collected: 05/21/26 12:15
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 18:10
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.66		ng/l	6.35	4.25	1
Perfluoropentanoic Acid (PFPeA)	11.3		ng/l	3.17	0.635	1
Perfluorobutanesulfonic Acid (PFBS)	6.19		ng/l	1.59	0.508	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.35	1.48	1
Perfluorohexanoic Acid (PFHxA)	10.5		ng/l	1.59	1.30	1
Perfluoropentanesulfonic Acid (PFPeS)	0.412	J	ng/l	1.59	0.365	1
Perfluoroheptanoic Acid (PFHpA)	2.94		ng/l	1.59	0.492	1
Perfluorohexanesulfonic Acid (PFHxS)	2.74		ng/l	1.59	0.698	1
Perfluorooctanoic Acid (PFOA)	11.7		ng/l	1.59	0.397	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.35	3.81	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.59	0.492	1
Perfluorononanoic Acid (PFNA)	0.793	J	ng/l	1.59	0.254	1
Perfluorooctanesulfonic Acid (PFOS)	13.7		ng/l	1.59	1.22	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.59	0.412	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.35	3.03	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.59	0.524	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.59	1.14	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.59	0.698	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.59	0.746	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.59	0.904	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.59	0.730	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.59	0.793	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.59	0.730	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.59	1.16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.35	0.936	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.35	1.24	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-10 Date Collected: 05/21/26 12:15

Client ID: MW-6 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.59	0.746	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.35	1.24	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.35	3.14	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.59	0.619	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.59	0.460	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	15.9	1.68	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	15.9	1.43	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.17	0.143	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.17	0.825	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.17	0.397	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.17	0.936	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	7.93	2.05	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	39.7	11.4	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	39.7	12.0	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-10 Date Collected: 05/21/26 12:15

Client ID: MW-6 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	87		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	95		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	99		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	100		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	98		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	103		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	105		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	91		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	88		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	103		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	74		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	82		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	60		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	97		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	75		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	71		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	88		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	80		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	83		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	73		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	80		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	89		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	83		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-11
Client ID: EQUIPMENT BLANK-2
Sample Location: HARRIMAN, NY

Date Collected: 05/21/26 12:40
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 05/29/26 20:30
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 08:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270E-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	278	84.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	40		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-11
Client ID: EQUIPMENT BLANK-2
Sample Location: HARRIMAN, NY
Date Collected: 05/21/26 12:40
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 168,1633A
Analytical Date: 06/09/26 18:19
Analyst: PNB
Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	5.57	3.73	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.79	0.557	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.39	0.446	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	5.57	1.30	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.39	1.14	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.39	0.320	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.39	0.432	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.39	0.613	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.39	0.348	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	5.57	3.34	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.39	0.432	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.39	0.223	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.39	1.07	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.39	0.362	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	5.57	2.66	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.39	0.460	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.39	1.00	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.39	0.613	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.39	0.655	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.39	0.794	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.39	0.641	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.39	0.696	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.39	0.641	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.39	1.02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	5.57	0.822	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	5.57	1.09	1

Project Name: GAESS HARRIMAN SITE CHARACTERI
Lab Number: L2631485
Project Number: 1242.093.031
Report Date: 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-11
Client ID: EQUIPMENT BLANK-2
Sample Location: HARRIMAN, NY
Date Collected: 05/21/26 12:40
Date Received: 05/21/26
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.39	0.655	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	5.57	1.09	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	5.57	2.76	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.39	0.543	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.39	0.404	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	13.9	1.48	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	13.9	1.25	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	2.79	0.125	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	2.79	0.724	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	2.79	0.348	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	2.79	0.822	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	6.96	1.80	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	34.8	10.0	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	34.8	10.5	1

Project Name: GAESS HARRIMAN SITE CHARACTERI **Lab Number:** L2631485

Project Number: 1242.093.031 **Report Date:** 06/15/26

SAMPLE RESULTS

Lab ID: L2631485-11 Date Collected: 05/21/26 12:40

Client ID: EQUIPMENT BLANK-2 Date Received: 05/21/26

Sample Location: HARRIMAN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	85		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	97		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	99		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	84		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	94		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	103		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	90		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	89		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	82		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	96		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	84		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	88		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	77		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	57		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	89		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	78		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	65		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	79		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	78		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	88		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	54		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	62		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	97		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	89		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 05/28/26 12:05
Analyst: DMC

Extraction Method: EPA 3510C
Extraction Date: 05/27/26 05:37

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01-11 Batch: WG2219091-1					
1,4-Dioxane	ND		ng/l	300	90.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	41		15-110

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 06/09/26 15:42
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-11 Batch: WG2222739-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	4.29
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.640
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.512
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	1.49
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	1.31
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.368
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.496
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.704
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.400
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	3.84
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.496
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.256
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	1.23
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.416
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	3.06
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.528
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	1.15
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.704
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.752
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.912
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.736
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.800
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.736

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 06/09/26 15:42
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-11 Batch: WG2222739-1					
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	1.17
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	0.944
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	1.25
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.752
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	1.25
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	3.17
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.624
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.464
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.70
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.44
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.144
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.832
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.400
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	0.944
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	2.06
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	11.5
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	12.1

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 06/09/26 15:42
Analyst: PNB

Extraction Method: EPA 1633
Extraction Date: 06/03/26 19:24

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01-11 Batch: WG2222739-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	83		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	81		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	81		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	82		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	86		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	106		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	79		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	87		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	81		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	98		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	62		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	71		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	75		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	51		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	76		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	82		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	54		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	62		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	52		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	73		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	61		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	66		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	90		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	84		10-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 06/14/26 16:42
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 06/14/26 08:58

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG2226537-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	6.40	4.29
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	3.20	0.640
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.60	0.512
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/l	6.40	1.49
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.60	1.31
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/l	1.60	0.368
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.60	0.496
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.60	0.704
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.60	0.400
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	6.40	3.84
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.60	0.496
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.60	0.256
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.60	1.23
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.60	0.416
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	6.40	3.06
Perfluorononanesulfonic Acid (PFNS)	ND		ng/l	1.60	0.528
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.60	1.15
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.60	0.704
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.60	0.752
Perfluorooctanesulfonamide (PFOSA)	ND		ng/l	1.60	0.912
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.60	0.736
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.60	0.800
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.60	0.736

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 06/14/26 16:42
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 06/14/26 08:58

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG2226537-1					
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/l	1.60	1.17
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	6.40	0.944
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	6.40	1.25
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/l	1.60	0.752
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/l	6.40	1.25
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	6.40	3.17
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/l	1.60	0.624
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/l	1.60	0.464
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/l	16.0	1.70
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/l	16.0	1.44
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/l	3.20	0.144
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/l	3.20	0.832
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/l	3.20	0.400
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/l	3.20	0.944
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/l	8.00	2.06
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/l	40.0	11.5
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/l	40.0	12.1

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 168,1633A
Analytical Date: 06/14/26 16:42
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 06/14/26 08:58

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG2226537-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	100		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	112		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	88		40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	86		40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	99		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	100		40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	86		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	92		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	89		40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	92		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	88		40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	94		40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	88		40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	78		40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	90		30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	78		40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	77		25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	82		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	73		10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	101		40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	63		10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	61		10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	80		10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	78		10-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab	Associated sample(s): 01-11		Batch: WG2219091-2		WG2219091-3			
1,4-Dioxane	132		131		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	36		35		15-110

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 Batch: WG2222739-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	111		-		70-140	-		
Perfluoropentanoic Acid (PFPeA)	104		-		65-135	-		
Perfluorobutanesulfonic Acid (PFBS)	101		-		60-145	-		
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	111		-		70-145	-		
Perfluorohexanoic Acid (PFHxA)	105		-		70-145	-		
Perfluoropentanesulfonic Acid (PFPeS)	103		-		65-140	-		
Perfluoroheptanoic Acid (PFHpA)	99		-		70-150	-		
Perfluorohexanesulfonic Acid (PFHxS)	103		-		65-145	-		
Perfluorooctanoic Acid (PFOA)	108		-		70-150	-		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	119		-		65-155	-		
Perfluoroheptanesulfonic Acid (PFHpS)	108		-		70-150	-		
Perfluorononanoic Acid (PFNA)	80		-		70-150	-		
Perfluorooctanesulfonic Acid (PFOS)	107		-		55-150	-		
Perfluorodecanoic Acid (PFDA)	106		-		70-140	-		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	108		-		60-150	-		
Perfluorononanesulfonic Acid (PFNS)	88		-		65-145	-		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	98		-		50-140	-		
Perfluoroundecanoic Acid (PFUnA)	94		-		70-145	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 Batch: WG2222739-2 LOW LEVEL								
Perfluorodecanesulfonic Acid (PFDS)	83		-		60-145	-		
Perfluorooctanesulfonamide (PFOSA)	112		-		70-145	-		
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	123		-		70-145	-		
Perfluorododecanoic Acid (PFDoA)	104		-		70-140	-		
Perfluorotridecanoic Acid (PFTrDA)	100		-		65-140	-		
Perfluorotetradecanoic Acid (PFTeDA)	94		-		60-140	-		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	112		-		70-140	-		
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	84		-		65-145	-		
Perfluorododecanesulfonic Acid (PFDoS)	84		-		50-145	-		
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	95		-		70-155	-		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	82		-		55-160	-		
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	108		-		60-150	-		
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	101		-		65-145	-		
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	88		-		70-145	-		
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	88		-		70-135	-		
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	95		-		55-140	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 Batch: WG2222739-2 LOW LEVEL								
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	100		-		60-150	-		
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	92		-		70-140	-		
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	120		-		50-150	-		
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	108		-		65-130	-		
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	94		-		70-135	-		
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	71		-		50-145	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 Batch: WG2222739-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	80				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	83				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	99				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	86				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	90				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	97				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	99				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	85				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	108				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	80				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	92				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	92				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	57				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	97				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	77				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	63				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	84				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	85				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	77				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	59				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	64				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	83				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	77				10-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 Batch: WG2222739-3								
Perfluorobutanoic Acid (PFBA)	112		-		70-140	-		
Perfluoropentanoic Acid (PFPeA)	105		-		65-135	-		
Perfluorobutanesulfonic Acid (PFBS)	109		-		60-145	-		
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	109		-		70-145	-		
Perfluorohexanoic Acid (PFHxA)	106		-		70-145	-		
Perfluoropentanesulfonic Acid (PFPeS)	102		-		65-140	-		
Perfluoroheptanoic Acid (PFHpA)	105		-		70-150	-		
Perfluorohexanesulfonic Acid (PFHxS)	95		-		65-145	-		
Perfluorooctanoic Acid (PFOA)	118		-		70-150	-		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	127		-		65-155	-		
Perfluoroheptanesulfonic Acid (PFHpS)	113		-		70-150	-		
Perfluorononanoic Acid (PFNA)	85		-		70-150	-		
Perfluorooctanesulfonic Acid (PFOS)	102		-		55-150	-		
Perfluorodecanoic Acid (PFDA)	103		-		70-140	-		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	123		-		60-150	-		
Perfluorononanesulfonic Acid (PFNS)	106		-		65-145	-		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	110		-		50-140	-		
Perfluoroundecanoic Acid (PFUnA)	96		-		70-145	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 Batch: WG2222739-3								
Perfluorodecanesulfonic Acid (PFDS)	101		-		60-145	-		
Perfluorooctanesulfonamide (PFOSA)	110		-		70-145	-		
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	108		-		70-145	-		
Perfluorododecanoic Acid (PFDoA)	99		-		70-140	-		
Perfluorotridecanoic Acid (PFTrDA)	96		-		65-140	-		
Perfluorotetradecanoic Acid (PFTeDA)	100		-		60-140	-		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	116		-		70-140	-		
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	90		-		65-145	-		
Perfluorododecanesulfonic Acid (PFDoS)	98		-		50-145	-		
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	107		-		70-155	-		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	88		-		55-160	-		
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	109		-		60-150	-		
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	99		-		65-145	-		
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	95		-		70-145	-		
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	92		-		70-135	-		
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	106		-		55-140	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 Batch: WG2222739-3								
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	103		-		60-150	-		
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	109		-		70-140	-		
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	120		-		50-150	-		
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	107		-		65-130	-		
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	98		-		70-135	-		
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	67		-		50-145	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 Batch: WG2222739-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	84				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	91				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	89				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	94				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	102				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	96				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	85				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	81				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	98				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	80				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	90				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	82				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	58				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	86				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	73				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	69				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	84				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	84				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	81				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	52				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	55				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	85				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	82				10-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2226537-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	128		-		70-140	-		
Perfluoropentanoic Acid (PFPeA)	117		-		65-135	-		
Perfluorobutanesulfonic Acid (PFBS)	121		-		60-145	-		
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	123		-		70-145	-		
Perfluorohexanoic Acid (PFHxA)	131		-		70-145	-		
Perfluoropentanesulfonic Acid (PFPeS)	127		-		65-140	-		
Perfluoroheptanoic Acid (PFHpA)	118		-		70-150	-		
Perfluorohexanesulfonic Acid (PFHxS)	130		-		65-145	-		
Perfluorooctanoic Acid (PFOA)	125		-		70-150	-		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	130		-		65-155	-		
Perfluoroheptanesulfonic Acid (PFHpS)	120		-		70-150	-		
Perfluorononanoic Acid (PFNA)	119		-		70-150	-		
Perfluorooctanesulfonic Acid (PFOS)	126		-		55-150	-		
Perfluorodecanoic Acid (PFDA)	118		-		70-140	-		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	137		-		60-150	-		
Perfluorononanesulfonic Acid (PFNS)	119		-		65-145	-		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	112		-		50-140	-		
Perfluoroundecanoic Acid (PFUnA)	118		-		70-145	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2226537-2 LOW LEVEL								
Perfluorodecanesulfonic Acid (PFDS)	98		-		60-145	-		
Perfluorooctanesulfonamide (PFOSA)	128		-		70-145	-		
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	112		-		70-145	-		
Perfluorododecanoic Acid (PFDoA)	126		-		70-140	-		
Perfluorotridecanoic Acid (PFTrDA)	130		-		65-140	-		
Perfluorotetradecanoic Acid (PFTeDA)	123		-		60-140	-		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	118		-		70-140	-		
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	128		-		65-145	-		
Perfluorododecanesulfonic Acid (PFDoS)	88		-		50-145	-		
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	130		-		70-155	-		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	117		-		55-160	-		
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	122		-		60-150	-		
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	106		-		65-145	-		
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	115		-		70-145	-		
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	116		-		70-135	-		
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	114		-		55-140	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2226537-2 LOW LEVEL								
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	112		-		60-150	-		
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	115		-		70-140	-		
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	136		-		50-150	-		
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	116		-		65-130	-		
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	116		-		70-135	-		
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	91		-		50-145	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2226537-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	101				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	116				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	94				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	91				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	103				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	105				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	100				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	98				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	101				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	89				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	93				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	90				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	82				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	92				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	78				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	77				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	86				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	71				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	110				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	55				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	56				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	76				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	78				10-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2226537-3								
Perfluorobutanoic Acid (PFBA)	115		-		70-140	-		
Perfluoropentanoic Acid (PFPeA)	111		-		65-135	-		
Perfluorobutanesulfonic Acid (PFBS)	117		-		60-145	-		
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	117		-		70-145	-		
Perfluorohexanoic Acid (PFHxA)	111		-		70-145	-		
Perfluoropentanesulfonic Acid (PFPeS)	116		-		65-140	-		
Perfluoroheptanoic Acid (PFHpA)	109		-		70-150	-		
Perfluorohexanesulfonic Acid (PFHxS)	112		-		65-145	-		
Perfluorooctanoic Acid (PFOA)	110		-		70-150	-		
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	116		-		65-155	-		
Perfluoroheptanesulfonic Acid (PFHpS)	118		-		70-150	-		
Perfluorononanoic Acid (PFNA)	109		-		70-150	-		
Perfluorooctanesulfonic Acid (PFOS)	112		-		55-150	-		
Perfluorodecanoic Acid (PFDA)	117		-		70-140	-		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	124		-		60-150	-		
Perfluorononanesulfonic Acid (PFNS)	110		-		65-145	-		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	109		-		50-140	-		
Perfluoroundecanoic Acid (PFUnA)	114		-		70-145	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2226537-3								
Perfluorodecanesulfonic Acid (PFDS)	101		-		60-145	-		
Perfluorooctanesulfonamide (PFOSA)	106		-		70-145	-		
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	108		-		70-145	-		
Perfluorododecanoic Acid (PFDoA)	109		-		70-140	-		
Perfluorotridecanoic Acid (PFTrDA)	104		-		65-140	-		
Perfluorotetradecanoic Acid (PFTeDA)	112		-		60-140	-		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	109		-		70-140	-		
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	118		-		65-145	-		
Perfluorododecanesulfonic Acid (PFDoS)	94		-		50-145	-		
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	125		-		70-155	-		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	109		-		55-160	-		
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	110		-		60-150	-		
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	109		-		65-145	-		
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	108		-		70-145	-		
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	109		-		70-135	-		
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	109		-		55-140	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2226537-3								
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	105		-		60-150	-		
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	106		-		70-140	-		
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	118		-		50-150	-		
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	105		-		65-130	-		
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	108		-		70-135	-		
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	94		-		50-145	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG2226537-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	99				5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	109				40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	92				40-135
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	93				40-200
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	101				40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	100				40-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	96				40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	98				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	101				40-200
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	96				40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	90				40-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	89				40-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	91				40-300
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	88				40-170
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	87				30-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	78				40-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	82				25-135
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	88				10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	76				10-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	102				40-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	65				10-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	65				10-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	85				10-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	83				10-130

Matrix Spike Analysis

Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270E-SIM - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG2219091-4 WG2219091-5 QC Sample: L2631485-04 Client ID: MW-3												
1,4-Dioxane	ND	4810	6320	131		6220	129		40-140	2		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,4-Dioxane-d8	39		40		15-110

Matrix Spike Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG2222739-4 WG2222739-5 QC Sample: L2631485-04 Client ID: MW-3												
Perfluorobutanoic Acid (PFBA)	ND	145	167	115		157	112		70-140	6		30
Perfluoropentanoic Acid (PFPeA)	6.39	72.4	87.9	113		82.4	108		65-135	6		30
Perfluorobutanesulfonic Acid (PFBS)	4.15	32.1	36.2	100		36.2	103		60-145	0		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	136	150	110		144	109		70-145	4		30
Perfluorohexanoic Acid (PFHxA)	4.18	36.2	43.1	108		42.0	108		70-145	3		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	34.2	39.4	115		35.8	108		65-140	10		30
Perfluoroheptanoic Acid (PFHpA)	2.68	36.2	38.7	100		34.0	89		70-150	13		30
Perfluorohexanesulfonic Acid (PFHxS)	3.13	33.3	38.2	105		35.7	101		65-145	7		30
Perfluorooctanoic Acid (PFOA)	7.29	36.2	47.9	112		46.8	113		70-150	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	138	161	117		150	112		65-155	7		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	34.4	39.5	115		39.0	117		70-150	1		30
Perfluorononanoic Acid (PFNA)	ND	36.2	29.3	81		25.4	72		70-150	14		30
Perfluorooctanesulfonic Acid (PFOS)	12.4	33.6	45.9	100		42.0	91		55-150	9		30
Perfluorodecanoic Acid (PFDA)	ND	36.2	36.1	100		38.9	111		70-140	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	139	159	114		150	111		60-150	6		30
Perfluorononanesulfonic Acid (PFNS)	ND	35	32.7	93		32.0	94		65-145	2		30

Matrix Spike Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG2222739-4 WG2222739-5 QC Sample: L2631485-04 Client ID: MW-3												
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	36.2	44.8	124		40.8	116		50-140	9		30
Perfluoroundecanoic Acid (PFUnA)	ND	36.2	38.6	107		34.3	98		70-145	12		30
Perfluorodecanesulfonic Acid (PFDS)	ND	35	30.4	87		28.3	83		60-145	7		30
Perfluorooctanesulfonamide (PFOSA)	ND	36.2	41.6	115		39.8	113		70-145	4		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	36.2	40.2	111		39.6	113		70-145	2		30
Perfluorododecanoic Acid (PFDoA)	ND	36.2	40.6	112		36.1	103		70-140	12		30
Perfluorotridecanoic Acid (PFTrDA)	ND	36.2	42.2	117		35.1	100		65-140	18		30
Perfluorotetradecanoic Acid (PFTeDA)	ND	36.2	38.3	106		36.5	104		60-140	5		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	145	174	120		159	113		70-140	9		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	137	114	83		98.8	74		65-145	14		30
Perfluorododecanesulfonic Acid (PFDoS)	ND	35.3	28.4	80		28.6	84		50-145	1		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	135	131	97		132	101		70-155	1		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	137	101	74		101	76		55-160	0		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	36.2	40.6	112		36.7	105		60-150	10		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	36.2	35.7	99		34.1	97		65-145	5		30

Matrix Spike Analysis
Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG2222739-4 WG2222739-5 QC Sample: L2631485-04 Client ID: MW-3												
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	362	343	95		321	92		70-145	7		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	362	352	97		314	90		70-135	11		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	72.4	76.7	106		71.8	102		55-140	7		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	72.4	78.8	109		68.9	98		60-150	13		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	64.6	68.4	106		67.0	107		70-140	2		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	72.4	91.9	127		87.4	125		50-150	5		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	181	195	108		183	104		65-130	6		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	905	1150	127		1090	124		70-135	5		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	905	819	90		783	89		50-145	4		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	76		74		40-300
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	98		98		40-200
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	87		88		40-200
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	71		55		10-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	67		56		25-135
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	74		70		10-130

Matrix Spike Analysis

Batch Quality Control

Project Name: GAESS HARRIMAN SITE CHARACTERI

Project Number: 1242.093.031

Lab Number: L2631485

Report Date: 06/15/26

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG2222739-4 WG2222739-5 QC Sample: L2631485-04 Client ID: MW-3												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	63		51		10-130
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	57		50		40-170
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	84		78		10-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	93		87		40-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	69		66		40-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	80		68		40-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	98		94		40-135
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	74		77		30-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	88		80		40-130
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89		85		40-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	105		111		40-130
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	66		67		10-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	68		65		10-130
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	84		83		5-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	87		87		40-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88		80		40-130
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	97		104		40-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	78		76		40-130

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2631485-01A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-01B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-01C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-01D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-02A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-02B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-02C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-02D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-03A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-03B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-03C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-03D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-04A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-04A1	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-04A2	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-04B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-04B1	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-04B2	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-04C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-04C1	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-04C2	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2631485-04D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-04D1	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-04D2	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-05A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-05B	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-05C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-05D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-06A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-06B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-06C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-06D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-07A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-07B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-07C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-07D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-08A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-08B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-08C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-08D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-09A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-09B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-09C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-09D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-10A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-10B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-10C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-10D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-11A	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)

*Values in parentheses indicate holding time in days

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2631485-11B	Plastic 250ml unpreserved	NA	NA			Y	Absent		A2-NY-1633(28)
L2631485-11C	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-11D	Amber 250ml unpreserved	NA	NA			Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2631485-12A	Plastic 250ml unpreserved	NA	NA			Y	Absent		ARCHIVE()

*Values in parentheses indicate holding time in days

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031

Lab Number: L2631485
Report Date: 06/15/26

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	GAESS HARRIMAN SITE CHARACTERI	**Lab Number:**	L2631485
Project Number:	1242.093.031	**Report Date:**	06/15/26

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GAESS HARRIMAN SITE CHARACTERI	**Lab Number:**	L2631485
Project Number:	1242.093.031	**Report Date:**	06/15/26

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were

Report Format: DU Report with 'J' Qualifiers

Project Name:	GAESS HARRIMAN SITE CHARACTERI	**Lab Number:**	L2631485
Project Number:	1242.093.031	**Report Date:**	06/15/26

Data Qualifiers

estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: GAESS HARRIMAN SITE CHARACTERI
Project Number: 1242.093.031
Lab Number: L2631485
Report Date: 06/15/26

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

168 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. EPA Method 1633A, EPA 820-R-24-007, December 2024. For Massachusetts Contingency Plan, WSC-CAM-XA, September 2025.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v03 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

PAS-MAN1 Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028
EPA 524.2: 1,3,5-Trichlorobenzene, m/p-Xylene, o-xylene.
EPA 625.1: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, N-Nitrosodiphenylamine.
EPA 8081B NPW and SCM: Alachlor, Endrin Ketone, Hexachlorobenzene.
EPA 8260D NPW: Tetrahydrofuran, 1,3,5-Trichlorobenzene; **SCM:** TAME, TBEE, Diethyl ether, DIPE, Tetrahydrofuran. 1,3,5-Trichlorobenzene, Freon-113.
EPA 8270E: NPW: Carbazole, 1-Methylnaphthalene, Pentachloronitrobenzene; **SCM:** Carbazole, 1-Methylnaphthalene.
EPA TO-13: Air: Benzo(e)pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, Perylene.
EPA TO-4A Pesticide Air: delta-BHC, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Endrin Ketone, Hexachlorobenzene, Methoxychlor.
SM4500: NPW: Amenable Cyanide; **SCM:** Total Phosphorus, TKN, NH3, NECi: NO2, NO3, ASTMD516.

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 504.1: EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v03 Certificate/Approval Program Summary

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028

Drinking Water
EPA 300.0: NO3, NO2, Fl, Cl, SO4. **NECI Reductase**: NO3, NO2.
SM4500F-C, SM4500Cl-B, SM4500CN-C,E, EPA 180.1, SM2320B, SM 2540C, SM4500H-B, SM4500SO4-E.
EPA 537.1; EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: SM9223-P/A: TC/EC; SM9223B-Colilert-enumeration: TC/EC; HPC-Simplate.

Non-Potable Water
SM4500H-B, SM2510B, SM2540C, SM2320B, SM4500Cl-B, SM4500NH3-B, C, EPA 350.1, NECi: NO3, **SM4500NH3-B, C: TKN, SM4500P-E: Ortho Phosphate, SM4500P-B, E: Total Phosphorus, EPA 410.4, SM5210B, SM5310C, SM4500CN-C, E, SM2540D, SM4500Cl-G, SM4500SO4-E, EPA 1664, EPA 420.1, EPA 300.0:** Cl, SO4, NO3.
EPA 624.1: Volatile Halocarbons, Volatile Aromatics.
EPA 608.3: Chlordane, Toxaphene, Aldrin, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs.
EPA 625.1: SVOC-Acid Extractables and Base/Neutrals
Microbiology: SM9223B-Colilert: E. coli (Ambient and Wastewater), **SM9223B-Colilert-18:** Fecal Coliform (Wastewater).

Certification IDs:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY KY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NV MA00030, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

PAS-MAN1 Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

PAS-ELON East Longmeadow Facility – 39 Spruce St. East Longmeadow, MA 01028
CT PH-0821, ME MA00100, MI 9100, NC (DENR) 652, NC (DW) 25703, MA M-MA100, NH (Secondary) 2516, NH (Primary) 2557, NJ MA007, NY 10899, PA 68-05812, RI LAO00373, VA 460217, VT-255716, WV DEP 419, WV-DW 9979C, LA 05130, LA-DW LA042, MD-DW 373, OH 87781.

For a complete listing of analytes and methods, please contact your Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/22/26

ALPHA Job #: L2631485

Client Information

Client: Barton & Loguidice
Address: 443 Electronics Pkwy
Liverpool, NY 13088
Phone: (585) 325-7190
Fax:
Email: glesnik@bartonandloguidice.com

Project Information

Project Name: Gross Harriman Site Characterization
Project Location: Harriman, NY
Project # 1242.093.031
(Use Project name as Project #)
Project Manager: Grey Lesnik
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS-EPA 1633	1,4-Dioxane: EPA 8270E SIM	Total Bottle	Sample Specific Comments
-01	MW-5	5-20-26	1125	GW	DRH	X	X	4	
-02	MW-4	5-20-26	1258	GW	DRH	X	X	4	
-03	MW-1	5-20-26	1400	GW	DRH	X	X	4	
-04	MW-3	5-20-26	1535	GW	DRH	X	X	4	
	MW-3 MS	5-20-26	1535	GW	DRH	X	X	4	
	MW-3 MSD	5-20-26	1535	GW	DRH	X	X	4	
-05	FIELD BLANK	5-20-26	1550	GW	DRH	X	X	4	
-06	EQUIPMENT BLANK-1	5-20-26	1605	GW	DRH	X	X	4	
-07	DUP-1	5-20-26	—	GW	DRH	X	X	4	
-08	MH-1A	5-21-26	0945	GW	DRH	X	X	4	

Container Type: P A
Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/21/2026 1810		5-21-26 1835
	5-21-26		5/21 2200
	5/22 2000		
	5/22 0850	PACE	5/22/26 0850
PACE	5/22/26 10:00		5/22/26 1000

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 2 of 2

Date Rec'd in Lab:

ALPHA Job #:

Client Information
Client: Barton & Loguidice
Address: 443 Electronics Pkwy
Liverpool, NY 13088
Phone: (585) 325-7190
Fax:
Email: gleniak@bartonandloguidice.com

Project Information
Project Name: Griess Harriman Site Characterization
Project Location: Harriman, NY
Project #: 1242.093.031
(Use Project name as Project #)
Project Manager: Greg Lesniak
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: PFAS-EPA 1633	ANALYSIS: 1,4-Dioxane - EPA 8270E SIM	Total # Bottles
-09	MW-2	5/21/26	1050	GW	DRH	X	X	4
-10	MW-6	5/21/26	1215	GW	DRH	X	X	4
-11	EQUIPMENT BLANK-2	5/21/26	1240	GW	DRH	X	X	4

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Container Type	P	A
Preservative	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/21/2026 1810		5-21-26 1836
	5-21-26		5/21 2200
	5/22 200		
PACE	5/22 0850	PACE	5/22/26 0850
PACE	5/22/26 10:00		5/22/26 1000

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Sample Delivery Group Summary

Pace Job Number : L2631485
Received : 21-MAY-2026
Reviewer : Dylan LeBlanc

Account Name : Barton & Loguidice, P.C
Project Number : 1242.093.031
Project Name : GAESS HARRIMAN SITE CHARACTERI

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	5.6	
B	Absent/	Ice	5.3	
C	Absent/	Ice	3.7	

Condition Information

1) All samples on COC received? **YES**

2) Extra samples received? **YES**
Following additional samples were received: -12

3) Are there any sample container discrepancies? **NO**

4) Are there any discrepancies between COC & sample labels? **NO**

5) Are samples in appropriate containers for requested analysis? **YES**

6) Are samples properly preserved for requested analysis? **YES**

7) Are samples within holding time for requested analysis? **YES**

8) All sampling equipment returned? **NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client? **NA**

Appendix C
Data Validation Report

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

July 7, 2026

Mr. Greg V. Lesniak, P.G.
Managing Hydrogeologist
Barton & Loguidice, D.P.C.
10 Airline Drive, Suite 200
Albany, New York 12205

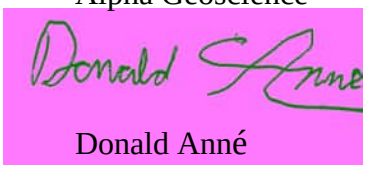
Re: Data Validation Report
Orange County
May 2026 Ground Water Sampling Event

Dear Mr. Lesniak:

The data usability summary report (DUSR) and validation summary are attached to this letter for the Orange County, May 2026 ground water sampling event. The data for Pace Analytical Services, SDG number L2631485 were acceptable, with minor issues that are identified in the DUSR and validation summary. There are no data that are qualified as either rejected, unusable or estimated in the data pack.

A list of data validation acronyms and qualifiers is attached to assist you in interpreting the data validation reviews. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Barton & Loguidice.

Sincerely,
Alpha Geoscience



Donald Anné
Senior Chemist

DCA/bms
Via email

z:\projects\2021\21621-21640\21626-orange county\temp-review\orange county-261.ltr.docx

Alpha Geoscience: Acronyms and Definitions

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high andassociated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

Polyfluorinated Alkyl Substances (PFAS) Acronyms

PFBA	Perfluorobutanoic acid
PFPeA	Perfluoropentanoic acid
PFHxA	Perfluorohexanoic acid
PFHpA	Perfluoroheptanoic acid
PFOA	Perfluorooctanoic acid
PFNA	Perfluorononanoic acid
PFDA	Perfluorodecanoic acid
PFUnA	Perfluoroundecanoic acid
PFDoA	Perfluorododecanoic acid
PFTriA or PFTrDA	Perfluorotridecanoic acid
PFTeA or PFTA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid
PFPeS	Perfluoropentanesulfonic acid
PFHxS	Perfluorohexanesulfonic acid
PFHpS	Perfluoroheptanesulfonic acid
PFOS	Perfluorooctanesulfonic acid
PFNS	Perfluorononanesulfonic acid
PFDS	Perfluorodecanesulfonic acid
FOSA	Perfluorooctane Sulfonamide
NMeFOSAA	N-methyl perfluorooctane sulfonamidoacetic acid
NEtFOSAA	N-ethyl perfluorooctane sulfonamidoacetic acid
4:2 FTS or 4:2	1H, 1H, 2H, 2H-perfluorohexanesulfonic acid
6:2 FTS or 6:2	1H, 1H, 2H, 2H-perfluorooctanesulfonic acid or 6:2 Fluorotelomersulfonate
8:2 FTS or 8:2	1H, 1H, 2H, 2H-perfluorodecanesulfonic acid or 8:2 Fluorotelomersulfonate

L2631485

ALPHA GEOSCIENCE

Geology

Hydrology

Remediation

Water Supply

Data Usability Summary Report for
Pace Analytical Services, SDG Number: L2631485

7 Ground Water Samples, 1 Field Duplicates,
1 Field Blank, and 2 Equipment Blanks
Collected May 20-21, 2026

Prepared by: Donald Anné
July 7, 2026

The data package contained the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of 1,4-dioxane and PFAS analyses for 7 ground water samples, 1 field duplicate, 1 field blank, and 2 equipment blanks.

The overall performances of the analyses are acceptable. Pace Analytical Services did fulfill the requirements of the analytical methods.

The data are acceptable with some minor issues that are identified in the accompanying data validation reviews. There were no data that were qualified as either rejected (R) or estimated; therefore, all data are considered usable. Detailed information on data quality is included in the data validation reviews.

z:\projects\2021\21621-21640\21626-orange county\temp-review\l2631485.dus.docx

Qualified Data Section

(No Data Qualified)

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-01	**Date Collected**	: 05/20/26 11:25
Client ID	: MW-5	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 16:10
Sample Matrix	: Groundwater	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292615	**Analyst**	: DMC
Sample Amount	: 260 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	288	87.3	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-02	**Date Collected**	: 05/20/26 12:58
Client ID	: MW-4	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 16:32
Sample Matrix	: Groundwater	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292616	**Analyst**	: DMC
Sample Amount	: 250 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	300	90.8	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-03	**Date Collected**	: 05/20/26 14:00
Client ID	: MW-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 16:54
Sample Matrix	: Groundwater	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292617	**Analyst**	: DMC
Sample Amount	: 260 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	288	87.3	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-04	**Date Collected**	: 05/20/26 15:35
Client ID	: MW-3	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 17:15
Sample Matrix	: Groundwater	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292618	**Analyst**	: DMC
Sample Amount	: 250 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	300	90.8	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-05	**Date Collected**	: 05/20/26 15:50
Client ID	: FIELD BLANK	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 18:20
Sample Matrix	: Field Blank	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292621	**Analyst**	: DMC
Sample Amount	: 280 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	268	81.1	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-06	**Date Collected**	: 05/20/26 16:05
Client ID	: EQUIPMENT BLANK-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 18:42
Sample Matrix	: Equipment Blank	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292622	**Analyst**	: DMC
Sample Amount	: 280 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	268	81.1	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-07	**Date Collected**	: 05/20/26 00:00
Client ID	: DUP-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 19:04
Sample Matrix	: Groundwater	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292623	**Analyst**	: DMC
Sample Amount	: 250 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	300	90.8	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-08	**Date Collected**	: 05/21/26 09:45
Client ID	: MH-1A	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 19:25
Sample Matrix	: Groundwater	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292624	**Analyst**	: DMC
Sample Amount	: 260 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	288	87.3	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-09	**Date Collected**	: 05/21/26 10:50
Client ID	: MW-2	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 19:47
Sample Matrix	: Groundwater	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292625	**Analyst**	: DMC
Sample Amount	: 270 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	278	84.1	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-10	**Date Collected**	: 05/21/26 12:15
Client ID	: MW-6	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 20:08
Sample Matrix	: Groundwater	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292626	**Analyst**	: DMC
Sample Amount	: 250 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	300	90.8	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-11	**Date Collected**	: 05/21/26 12:40
Client ID	: EQUIPMENT BLANK-2	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 05/29/26 20:30
Sample Matrix	: Equipment Blank	**Date Extracted**	: 05/27/26
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1105292627	**Analyst**	: DMC
Sample Amount	: 270 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	278	84.1	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-01	**Date Collected**	: 05/20/26 11:25
Client ID	: MW-5	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:09
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_46	**Analyst**	: PNB
Sample Amount	: 298.99 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	4.15	5.35	3.58	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	4.92	2.68	0.535	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	5.18	1.34	0.428	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.35	1.24	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	4.84	1.34	1.10	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.34	0.308	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.50	1.34	0.415	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	2.88	1.34	0.589	
335-67-1	Perfluorooctanoic Acid (PFOA)	13.4	1.34	0.334	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.35	3.21	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.34	0.415	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.34	0.214	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	10.4	1.34	1.03	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.34	0.348	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.35	2.56	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.34	0.441	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.34	0.589	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.34	0.629	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.34	0.762	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-01	**Date Collected**	: 05/20/26 11:25
Client ID	: MW-5	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:09
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_46	**Analyst**	: PNB
Sample Amount	: 298.99 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.34	0.615	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.34	0.669	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.34	0.615	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.34	0.977	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.35	0.789	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.35	1.04	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.34	0.629	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.35	1.04	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.35	2.65	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.34	0.522	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.34	0.388	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	1.46	13.4	1.42	J
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1.83	13.4	1.20	J

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-01	**Date Collected**	: 05/20/26 11:25
Client ID	: MW-5	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:09
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_46	**Analyst**	: PNB
Sample Amount	: 298.99 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.68	0.120	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.68	0.696	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.68	0.334	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.68	0.789	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	6.69	1.72	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	33.4	9.60	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	33.4	10.1	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-01RE	**Date Collected**	: 05/20/26 11:25
Client ID	: MW-5	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/14/26 18:24
Sample Matrix	: Groundwater	**Date Extracted**	: 06/14/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI12_260614_47	**Analyst**	: ANH
Sample Amount	: 50 g	**Instrument ID**	: LCMS12
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	8.00	5.76	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-02	**Date Collected**	: 05/20/26 12:58
Client ID	: MW-4	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:18
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_47	**Analyst**	: PNB
Sample Amount	: 293.28 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	7.34	5.46	3.66	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	8.66	2.73	0.546	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	5.02	1.36	0.436	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.46	1.27	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	5.36	1.36	1.12	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.559	1.36	0.314	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.34	1.36	0.423	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	4.12	1.36	0.600	
335-67-1	Perfluorooctanoic Acid (PFOA)	6.11	1.36	0.341	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.46	3.27	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.36	0.423	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.464	1.36	0.218	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	12.1	1.36	1.05	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.36	0.355	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.46	2.60	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.36	0.450	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.36	0.982	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.36	0.600	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-02	**Date Collected**	: 05/20/26 12:58
Client ID	: MW-4	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:18
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_47	**Analyst**	: PNB
Sample Amount	: 293.28 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.36	0.641	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.36	0.777	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.36	0.627	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.36	0.682	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.36	0.627	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.36	0.996	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.46	0.805	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.46	1.06	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.36	0.641	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.46	1.06	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.46	2.70	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.36	0.532	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.36	0.396	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	13.6	1.44	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-02	**Date Collected**	: 05/20/26 12:58
Client ID	: MW-4	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:18
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_47	**Analyst**	: PNB
Sample Amount	: 293.28 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	13.6	1.23	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.73	0.123	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.73	0.709	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.73	0.341	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.73	0.805	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	6.82	1.76	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	34.1	9.79	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	34.1	10.3	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-03	**Date Collected**	: 05/20/26 14:00
Client ID	: MW-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:27
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_48	**Analyst**	: PNB
Sample Amount	: 300.34 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	7.54	5.33	3.57	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	9.08	2.66	0.533	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	5.62	1.33	0.426	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.33	1.24	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	5.61	1.33	1.09	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.426	1.33	0.306	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.62	1.33	0.413	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	4.01	1.33	0.586	
335-67-1	Perfluorooctanoic Acid (PFOA)	6.33	1.33	0.333	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.33	3.20	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.33	0.413	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.453	1.33	0.213	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	12.6	1.33	1.02	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.33	0.346	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.33	2.54	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.33	0.440	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.33	0.959	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.33	0.586	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-03	**Date Collected**	: 05/20/26 14:00
Client ID	: MW-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:27
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_48	**Analyst**	: PNB
Sample Amount	: 300.34 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.33	0.626	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.33	0.759	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.33	0.613	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.33	0.666	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.33	0.613	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.33	0.972	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.33	0.786	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.33	1.04	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.33	0.626	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.33	1.04	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.33	2.64	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.33	0.519	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.33	0.386	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	13.3	1.41	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-03	**Date Collected**	: 05/20/26 14:00
Client ID	: MW-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:27
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_48	**Analyst**	: PNB
Sample Amount	: 300.34 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	13.3	1.20	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.66	0.120	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.66	0.692	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.66	0.333	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.66	0.786	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	6.66	1.72	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	33.3	9.56	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	33.3	10.0	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-04	**Date Collected**	: 05/20/26 15:35
Client ID	: MW-3	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:58
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_51	**Analyst**	: PNB
Sample Amount	: 282.17 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	5.67	3.80	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	6.39	2.84	0.567	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	4.15	1.42	0.454	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.67	1.32	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	4.18	1.42	1.16	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.42	0.326	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.68	1.42	0.439	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	3.13	1.42	0.624	
335-67-1	Perfluorooctanoic Acid (PFOA)	7.29	1.42	0.354	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.67	3.40	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.42	0.439	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.42	0.227	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	12.4	1.42	1.09	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.42	0.368	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.67	2.71	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.42	0.468	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.42	1.02	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.42	0.624	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-04	**Date Collected**	: 05/20/26 15:35
Client ID	: MW-3	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:58
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_51	**Analyst**	: PNB
Sample Amount	: 282.17 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.42	0.666	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.42	0.808	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.42	0.652	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.42	0.709	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.42	0.652	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.42	1.03	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.67	0.836	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.67	1.10	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.42	0.666	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.67	1.10	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.67	2.81	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.42	0.553	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.42	0.411	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	14.2	1.50	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-04	**Date Collected**	: 05/20/26 15:35
Client ID	: MW-3	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 16:58
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_51	**Analyst**	: PNB
Sample Amount	: 282.17 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	14.2	1.28	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.84	0.128	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.84	0.737	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.84	0.354	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.84	0.836	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.09	1.83	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	35.4	10.2	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	35.4	10.7	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-05	**Date Collected**	: 05/20/26 15:50
Client ID	: FIELD BLANK	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:25
Sample Matrix	: Field Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_54	**Analyst**	: PNB
Sample Amount	: 292.66 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	5.47	3.66	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.73	0.547	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.37	0.437	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.47	1.27	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.37	1.12	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.37	0.314	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.37	0.424	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.37	0.601	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.37	0.342	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.47	3.28	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.37	0.424	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.37	0.219	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.37	1.05	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.37	0.355	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.47	2.61	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.37	0.451	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.37	0.984	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.37	0.601	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-05	**Date Collected**	: 05/20/26 15:50
Client ID	: FIELD BLANK	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:25
Sample Matrix	: Field Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_54	**Analyst**	: PNB
Sample Amount	: 292.66 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.37	0.642	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.37	0.779	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.37	0.629	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.37	0.683	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.37	0.629	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.37	0.998	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.47	0.806	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.47	1.07	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.37	0.642	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.47	1.07	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.47	2.71	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.37	0.533	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.37	0.396	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	13.7	1.45	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-05	**Date Collected**	: 05/20/26 15:50
Client ID	: FIELD BLANK	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:25
Sample Matrix	: Field Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_54	**Analyst**	: PNB
Sample Amount	: 292.66 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	13.7	1.23	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.73	0.123	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.73	0.711	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.73	0.342	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.73	0.806	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	6.83	1.76	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	34.2	9.81	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	34.2	10.3	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-06	**Date Collected**	: 05/20/26 16:05
Client ID	: EQUIPMENT BLANK-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:34
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_55	**Analyst**	: PNB
Sample Amount	: 273.54 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	5.85	3.92	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.92	0.585	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.46	0.468	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.85	1.36	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.46	1.20	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.46	0.336	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.46	0.453	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.46	0.643	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.46	0.366	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.85	3.51	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.46	0.453	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.46	0.234	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.46	1.12	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.46	0.380	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.85	2.79	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.46	0.482	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.46	1.05	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.46	0.643	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-06	**Date Collected**	: 05/20/26 16:05
Client ID	: EQUIPMENT BLANK-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:34
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_55	**Analyst**	: PNB
Sample Amount	: 273.54 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.46	0.687	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.46	0.834	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.46	0.673	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.46	0.731	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.46	0.673	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.46	1.07	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.85	0.863	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.85	1.14	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.46	0.687	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.85	1.14	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.85	2.90	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.46	0.570	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.46	0.424	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	14.6	1.55	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-06	**Date Collected**	: 05/20/26 16:05
Client ID	: EQUIPMENT BLANK-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:34
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_55	**Analyst**	: PNB
Sample Amount	: 273.54 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	14.6	1.32	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.92	0.132	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.92	0.760	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.92	0.366	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.92	0.863	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.31	1.89	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	36.6	10.5	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	36.6	11.0	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-07	**Date Collected**	: 05/20/26 00:00
Client ID	: DUP-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:43
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_56	**Analyst**	: PNB
Sample Amount	: 277.3 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	3.86	5.77	3.86	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	4.77	2.88	0.577	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	5.22	1.44	0.462	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.77	1.34	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	5.16	1.44	1.18	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.44	0.332	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.28	1.44	0.447	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	2.41	1.44	0.635	
335-67-1	Perfluorooctanoic Acid (PFOA)	11.2	1.44	0.361	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.77	3.46	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.44	0.447	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.44	0.231	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	8.57	1.44	1.11	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.44	0.375	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.77	2.76	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.44	0.476	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.44	1.04	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.44	0.635	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-07	**Date Collected**	: 05/20/26 00:00
Client ID	: DUP-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:43
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_56	**Analyst**	: PNB
Sample Amount	: 277.3 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.44	0.678	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.44	0.822	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.44	0.664	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.44	0.721	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.44	0.664	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.44	1.05	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.77	0.851	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.77	1.12	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.44	0.678	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.77	1.12	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.77	2.86	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.44	0.562	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.44	0.418	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	14.4	1.53	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-07	**Date Collected**	: 05/20/26 00:00
Client ID	: DUP-1	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:43
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_56	**Analyst**	: PNB
Sample Amount	: 277.3 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	14.4	1.30	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.88	0.130	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.88	0.750	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.88	0.361	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.88	0.851	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.21	1.86	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	36.1	10.4	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	36.1	10.9	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-08	**Date Collected**	: 05/21/26 09:45
Client ID	: MH-1A	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:52
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_57	**Analyst**	: PNB
Sample Amount	: 286.78 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	5.76	5.58	3.74	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	11.1	2.79	0.558	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	4.07	1.39	0.446	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.58	1.30	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	7.16	1.39	1.14	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.446	1.39	0.321	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	3.11	1.39	0.432	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	6.37	1.39	0.614	
335-67-1	Perfluorooctanoic Acid (PFOA)	8.06	1.39	0.349	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.58	3.35	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.39	0.432	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.39	0.223	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	19.1	1.39	1.07	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.39	0.363	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.58	2.66	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.39	0.460	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.39	1.00	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.39	0.614	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-08	**Date Collected**	: 05/21/26 09:45
Client ID	: MH-1A	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:52
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_57	**Analyst**	: PNB
Sample Amount	: 286.78 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.39	0.656	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.39	0.795	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.39	0.642	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.39	0.697	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.39	0.642	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.39	1.02	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.58	0.823	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.58	1.09	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.39	0.656	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.58	1.09	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.58	2.76	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.39	0.544	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.39	0.404	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	13.9	1.48	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-08	**Date Collected**	: 05/21/26 09:45
Client ID	: MH-1A	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 17:52
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_57	**Analyst**	: PNB
Sample Amount	: 286.78 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	13.9	1.26	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.79	0.126	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.79	0.725	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.79	0.349	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.79	0.823	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	6.97	1.80	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	34.9	10.0	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	34.9	10.5	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-09	**Date Collected**	: 05/21/26 10:50
Client ID	: MW-2	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:01
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_58	**Analyst**	: PNB
Sample Amount	: 265.29 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	5.52	6.03	4.04	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	9.89	3.02	0.603	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	4.73	1.51	0.482	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.03	1.40	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	6.90	1.51	1.24	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.769	1.51	0.347	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	3.18	1.51	0.467	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	6.80	1.51	0.663	
335-67-1	Perfluorooctanoic Acid (PFOA)	6.56	1.51	0.377	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.03	3.62	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.51	0.467	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.51	0.241	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	14.2	1.51	1.16	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.51	0.392	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.03	2.88	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.51	0.498	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.51	1.08	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.51	0.663	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-09	**Date Collected**	: 05/21/26 10:50
Client ID	: MW-2	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:01
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_58	**Analyst**	: PNB
Sample Amount	: 265.29 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.51	0.709	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.51	0.859	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.51	0.694	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.51	0.754	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.51	0.694	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.51	1.10	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.03	0.890	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.03	1.18	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.51	0.709	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.03	1.18	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.03	2.98	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.51	0.588	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.51	0.437	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.1	1.60	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-09	**Date Collected**	: 05/21/26 10:50
Client ID	: MW-2	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:01
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_58	**Analyst**	: PNB
Sample Amount	: 265.29 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.1	1.36	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.02	0.136	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.02	0.784	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.02	0.377	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.02	0.890	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.54	1.94	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	37.7	10.8	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	37.7	11.4	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-10	**Date Collected**	: 05/21/26 12:15
Client ID	: MW-6	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:10
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_59	**Analyst**	: PNB
Sample Amount	: 252.08 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	6.66	6.35	4.25	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	11.3	3.17	0.635	
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	6.19	1.59	0.508	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.35	1.48	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	10.5	1.59	1.30	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.412	1.59	0.365	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.94	1.59	0.492	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	2.74	1.59	0.698	
335-67-1	Perfluorooctanoic Acid (PFOA)	11.7	1.59	0.397	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.35	3.81	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.59	0.492	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.793	1.59	0.254	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	13.7	1.59	1.22	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.59	0.412	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.35	3.03	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.59	0.524	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.59	1.14	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.59	0.698	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-10	**Date Collected**	: 05/21/26 12:15
Client ID	: MW-6	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:10
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_59	**Analyst**	: PNB
Sample Amount	: 252.08 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.59	0.746	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.59	0.904	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.59	0.730	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.59	0.793	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.59	0.730	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.59	1.16	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.35	0.936	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.35	1.24	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.59	0.746	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.35	1.24	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.35	3.14	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.59	0.619	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.59	0.460	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.9	1.68	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-10	**Date Collected**	: 05/21/26 12:15
Client ID	: MW-6	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:10
Sample Matrix	: Groundwater	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_59	**Analyst**	: PNB
Sample Amount	: 252.08 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.9	1.43	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.17	0.143	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.17	0.825	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.17	0.397	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.17	0.936	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.93	2.05	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	39.7	11.4	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	39.7	12.0	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-11	**Date Collected**	: 05/21/26 12:40
Client ID	: EQUIPMENT BLANK-2	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:19
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_60	**Analyst**	: PNB
Sample Amount	: 287.12 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	5.57	3.73	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.79	0.557	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.39	0.446	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.57	1.30	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.39	1.14	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.39	0.320	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.39	0.432	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.39	0.613	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.39	0.348	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.57	3.34	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.39	0.432	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.39	0.223	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.39	1.07	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.39	0.362	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.57	2.66	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.39	0.460	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.39	1.00	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.39	0.613	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-11	**Date Collected**	: 05/21/26 12:40
Client ID	: EQUIPMENT BLANK-2	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:19
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_60	**Analyst**	: PNB
Sample Amount	: 287.12 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.39	0.655	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.39	0.794	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.39	0.641	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.39	0.696	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.39	0.641	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.39	1.02	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.57	0.822	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.57	1.09	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.39	0.655	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.57	1.09	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.57	2.76	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.39	0.543	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.39	0.404	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	13.9	1.48	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Waste Management-Gaess Harriman	**Lab Number**	: L2631485
Project Name	: ANNUAL GROUNDWATER	**Project Number**	: WM HARR ANNUAL GW
Lab ID	: L2631485-11	**Date Collected**	: 05/21/26 12:40
Client ID	: EQUIPMENT BLANK-2	**Date Received**	: 05/21/26
Sample Location	: GAES HARRIMAN LANDFILL	**Date Analyzed**	: 06/09/26 18:19
Sample Matrix	: Equipment Blank	**Date Extracted**	: 06/03/26
Analytical Method	: 168,1633A	**Dilution Factor**	: 1
Lab File ID	: SCI09_260609_60	**Analyst**	: PNB
Sample Amount	: 287.12 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	13.9	1.25	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.79	0.125	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.79	0.724	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.79	0.348	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.79	0.822	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	6.96	1.80	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	34.8	10.0	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	34.8	10.5	U

1,4-Dioxane

Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8270D SIM 1,4-Dioxane
Data for Pace Analytical Services, SDG Number: L2631485

7 Ground Water Samples, 1 Field Duplicate,
1 Field Blank, and 2 Equipment Blanks
Collected May 20-21, 2026

Prepared by: Donald Anné
July 7, 2026

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

Initial Calibration: The average RRF for 1,4-dioxane was above the allowable minimum (0.010) and the %RSD was below the allowable maximum (30%), as required.

Continuing Calibration: The RRF for 1,4-dioxane was above the allowable minimum (0.010) and the %D was below the allowable maximum (20%), as required.

Blanks: The analyses of the method, field, and equipment blanks reported 1,4-dioxane as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples, field blank, and equipment blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent difference for 1,4-dioxane was below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample MW-3.

Laboratory Control Sample: The relative percent difference for 1,4-dioxane was below the allowable maximum and the percent recoveries were within QC limits for aqueous samples WG2219091-2/3.

Field Duplicates: The analyses of aqueous field duplicate pair MW-5/DUP-1 reported 1,4-dioxane as below the lowest standard; therefore, a valid relative percent difference could not be calculated. The analyses for the field duplicate pair were acceptable.

Compound ID: Checked surrogate results were within quantitation limits. The analyses of the ground water samples reported 1,4-dioxane as “not detected”.

z:\projects\2021\21621-21640\21626-orange county\temp-review\l2631485.dix.docx

PFAS

Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 1633 PFAS Data for
Pace Analytical Services SDG Number: L2631485

7 Ground Water Sample, 1 Field Duplicate,
2 Equipment Blanks, and 1 Field Blank
Collected May 20-21, 2026

Prepared by: Donald Anné
July 7, 2026

Holding Times: The samples were analyzed within USEPA holding times.

Initial Calibration: The %RSDs for applicable PFASs were below the method maximum (20%) or the R or R squared were above the method minimums, as required.

Continuing Calibration: The percent recoveries for applicable PFASs were within QC limits (70-130%), as required.

Blanks: The analyses of the method, equipment, and field blanks reported target PFAS as not detected.

Surrogate Recovery: One of twenty-four surrogate recoveries for sample MW-5 was below QC limits, but not below 10%. Positive and "not detected" results associated with this surrogate should be considered estimated (J) in sample MW-5.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target PFAS were below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample MW-3.

Laboratory Control Sample: The percent recoveries for target PFAS were within QC limits for aqueous samples WG2222739-2/3 and WG2226537-2/3.

Field Duplicates: The relative percent differences for applicable PFAS were below the allowable maximum (20%) for aqueous field duplicate pair MW-5/DUP-1 (attached table), as required.

Compound ID: Checked PFAS and surrogate results were within LC quantitation limits.

z:\projects\2021\21621-21640\21626-orange county\temp-review\l2631485.pfs.docx

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Waste Management-Gaess Harriman
Project Name: ANNUAL GROUNDWATER

Lab Number: L2631485
Project Number: WM HARR ANNUAL GW
Matrix: Equipment Blank/Groundwater/Field Blank

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	S7 ()
MW-5 (L2631485-01)	68	75	73	73	75	86	66
MW-5 (L2631485-01RE)	99	105	92	89	103	100	93
MW-4 (L2631485-02)	79	82	88	111	82	96	82
MW-1 (L2631485-03)	74	80	79	83	80	96	81
MW-3 (L2631485-04)	81	93	93	93	94	106	88
FIELD BLANK (L2631485-05)	81	81	89	90	86	108	86
EQUIPMENT BLANK-1 (L2631485-06)	83	88	95	88	87	104	94
DUP-1 (L2631485-07)	83	89	100	95	88	101	102
MH-1A (L2631485-08)	85	94	106	98	96	111	110
MW-2 (L2631485-09)	77	79	78	82	76	86	81
MW-6 (L2631485-10)	87	95	99	100	98	103	105
EQUIPMENT BLANK-2 (L2631485-11)	85	97	99	84	94	103	90
WG2222739-1BLANK	83	81	81	82	86	106	79
WG2222739-2LCS	80	83	99	86	90	97	99
WG2222739-3LCS	84	91	94	89	94	102	96
MW-3MS	84	87	98	98	89	105	93
MW-3MSD	83	87	94	98	85	111	87
WG2226537-1BLANK	100	112	88	86	99	100	86
WG2226537-2LCS	101	116	94	91	103	105	93
WG2226537-3LCS	99	109	92	93	101	100	96

QC LIMITS

(5-130) S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
(40-130) S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
(40-135) S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
(40-200) S4 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]HEXANESULFONIC ACID (M2-4:2FTS)
(40-130) S5 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
(40-130) S6 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)
(40-130) S7 = PERFLUORO[1,2,3-13C3]HEXANESULFONIC ACID (M3PFHXS)

*** Values outside of QC limits**

FORM II A2-NY-1633

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Waste Management-Gaess Harriman
Project Name: ANNUAL GROUNDWATER

Lab Number: L2631485
Project Number: WM HARR ANNUAL GW
Matrix: Equipment Blank/Groundwater/Field Blank

CLIENT ID (LAB SAMPLE NO.)	S8 ()	S9 ()	S10 ()	S11 ()	S12 ()	S13 ()	S14 ()
MW-5 (L2631485-01)	63	72	72	44	63	58	37*
MW-5 (L2631485-01RE)	96	99	96	89	97	93	92
MW-4 (L2631485-02)	86	101	96	66	68	65	46
MW-1 (L2631485-03)	80	82	85	58	67	66	46
MW-3 (L2631485-04)	81	82	94	72	79	65	53
FIELD BLANK (L2631485-05)	87	82	98	69	82	71	48
EQUIPMENT BLANK-1 (L2631485-06)	94	86	107	80	92	79	62
DUP-1 (L2631485-07)	89	92	111	79	85	79	57
MH-1A (L2631485-08)	89	94	102	79	87	79	58
MW-2 (L2631485-09)	81	83	95	68	85	75	52
MW-6 (L2631485-10)	91	88	103	74	89	82	60
EQUIPMENT BLANK-2 (L2631485-11)	89	82	96	84	88	77	57
WG2222739-1BLANK	87	81	98	62	71	75	51
WG2222739-2LCS	81	85	108	80	92	92	57
WG2222739-3LCS	85	81	98	80	90	82	58
MW-3MS	88	87	97	80	88	76	57
MW-3MSD	80	88	104	68	80	74	50
WG2226537-1BLANK	92	89	92	88	94	88	78
WG2226537-2LCS	100	98	101	89	93	90	82
WG2226537-3LCS	98	101	96	90	89	91	88

QC LIMITS

(40-130) S8 = PERFLUORO[13C8]OCTANOIC ACID (M8PFOA)
(40-200) S9 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]OCTANESULFONIC ACID (M2-6:2FTS)
(40-130) S10 = PERFLUORO[13C9]NONANOIC ACID (M9PFNA)
(40-130) S11 = PERFLUORO[13C8]OCTANESULFONIC ACID (M8PFOS)
(40-130) S12 = PERFLUORO[1,2,3,4,5,6-13C6]DECANOIC ACID (M6PFDA)
(40-300) S13 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]DECANESULFONIC ACID (M2-8:2FTS)
(40-170) S14 = N-DEUTERIOMETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D3-NMEFOSAA)

*** Values outside of QC limits**

FORM II A2-NY-1633 (Continued)

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Waste Management-Gaess Harriman
Project Name: ANNUAL GROUNDWATER

Lab Number: L2631485
Project Number: WM HARR ANNUAL GW
Matrix: Equipment Blank/Groundwater/Field Blank

CLIENT ID (LAB SAMPLE NO.)	S15 ()	S16 ()	S17 ()	S18 ()	S19 ()	S20 ()	S21 ()
MW-5 (L2631485-01)	59	50	41	45	37	65	49
MW-5 (L2631485-01RE)	94	83	85	88	75	104	64
MW-4 (L2631485-02)	63	60	52	51	49	72	43
MW-1 (L2631485-03)	67	51	52	46	39	67	43
MW-3 (L2631485-04)	77	63	59	65	66	79	64
FIELD BLANK (L2631485-05)	77	66	53	64	55	73	48
EQUIPMENT BLANK-1 (L2631485-06)	89	78	70	79	72	80	59
DUP-1 (L2631485-07)	88	69	63	71	71	82	66
MH-1A (L2631485-08)	88	81	73	80	76	83	63
MW-2 (L2631485-09)	87	72	64	78	78	75	70
MW-6 (L2631485-10)	97	75	71	88	80	83	73
EQUIPMENT BLANK-2 (L2631485-11)	89	78	65	79	78	88	54
WG2222739-1BLANK	76	82	54	62	52	73	61
WG2222739-2LCS	97	77	63	84	85	77	59
WG2222739-3LCS	86	73	69	84	84	81	52
MW-3MS	74	69	67	66	68	78	63
MW-3MSD	77	66	56	67	65	76	51
WG2226537-1BLANK	90	78	77	82	73	101	63
WG2226537-2LCS	92	78	77	86	71	110	55
WG2226537-3LCS	87	78	82	88	76	102	65

QC LIMITS

(30-130) S15 = PERFLUORO[1,2,3,4,5,6,7-13C7]UNDECANOIC ACID (M7-PFUDA)
(40-130) S16 = PERFLUORO[13C8]OCTANESULFONAMIDE (M8FOSA)
(25-135) S17 = N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D5-NETFOSAA)
(10-130) S18 = PERFLUORO[1,2-13C2]DODECANOIC ACID (MPFDOA)
(10-130) S19 = PERFLUORO[1,2-13C2]TETRADECANOIC ACID (M2PFTEDA)
(40-130) S20 = 2,3,3,3-TETRAFLUORO-2-[1,1,2,2,3,3,3-HEPTAFLUOROPROPOXY]-13C3-PROPANOIC ACID (M3HFPO-DA)
(10-130) S21 = N-METHYL-D3-PERFLUORO-1-OCTANESULFONAMIDE (D3-NMEFOSA)

*** Values outside of QC limits**

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Waste Management-Gaess Harriman
Project Name: ANNUAL GROUNDWATER

Lab Number: L2631485
Project Number: WM HARR ANNUAL GW
Matrix: Equipment Blank/Groundwater/Field Blank

CLIENT ID (LAB SAMPLE NO.)	S22 ()	S23 ()	S24 ()	S25 ()	S26 ()	S27 ()	S28 ()	TOT OUT
MW-5 (L2631485-01)	47	59	52	--	--	--	--	1
MW-5 (L2631485-01RE)	67	87	85	--	--	--	--	0
MW-4 (L2631485-02)	46	58	51	--	--	--	--	0
MW-1 (L2631485-03)	42	62	51	--	--	--	--	0
MW-3 (L2631485-04)	67	77	69	--	--	--	--	0
FIELD BLANK (L2631485-05)	49	79	72	--	--	--	--	0
EQUIPMENT BLANK-1 (L2631485-06)	63	97	85	--	--	--	--	0
DUP-1 (L2631485-07)	72	82	72	--	--	--	--	0
MH-1A (L2631485-08)	71	92	82	--	--	--	--	0
MW-2 (L2631485-09)	77	84	78	--	--	--	--	0
MW-6 (L2631485-10)	80	89	83	--	--	--	--	0
EQUIPMENT BLANK-2 (L2631485-11)	62	97	89	--	--	--	--	0
WG2222739-1BLANK	66	90	84	--	--	--	--	0
WG2222739-2LCS	64	83	77	--	--	--	--	0
WG2222739-3LCS	55	85	82	--	--	--	--	0
MW-3MS	71	84	74	--	--	--	--	0
MW-3MSD	55	78	70	--	--	--	--	0
WG2226537-1BLANK	61	80	78	--	--	--	--	0
WG2226537-2LCS	56	76	78	--	--	--	--	0
WG2226537-3LCS	65	85	83	--	--	--	--	0

QC LIMITS

(10-130) S22 = N-ETHYL-D5-PERFLUORO-1-OCTANESULFONAMIDE (D5-NETFOSA)
(10-130) S23 = 2-(N-METHYL-D3-PERFLUORO-1-OCTANESULFONAMIDO)ETHAN-D4-OL (D7-NMEFOSE)
(10-130) S24 = 2-(N-ETHYL-D5-PERFLUORO-1-OCTANESULFONAMIDO)ETHAN-D4-OL (D9-NETFOSE)

*** Values outside of QC limits**

FORM II A2-NY-1633 (Continued)

Field Duplicate Calculation Section

EPA Method 1633 PFC

Calculations for Field Duplicate Relative Percent Difference (RPD)

SDG No. L2631485

S1= MW-5 **S2=** DUP-1

Analyte	S1	S2	RPD (%)
Perfluorobutanoic Acid (PFBA)	**4.15**	**3.86**	NC
Perfluoropentanoic Acid (PFPeA)	4.92	4.77	3%
Perfluorobutanesulfonic Acid (PFBS)	5.18	5.22	1%
Perfluorohexanoic Acid (PFHxA)	4.84	5.16	6%
Perfluoroheptanoic Acid (PFHpA)	2.5	2.28	9%
Perfluorohexanesulfonic Acid (PFHxS)	2.88	2.41	18%
Perfluorooctanoic Acid (PFOA)	13.4	11.2	18%
Perfluorooctanesulfonic Acid (PFOS)	10.4	8.57	19%
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	**1.46**	ND	NC
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	**1.83**	ND	NC

* RPD is above the allowable maximum 20%.

Results are in units of ng/L.

Bold numbers were values that below the CRQL or above the high standard.
ND - Not detected.

NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

Appendix D
CAMP Summary Logs

UPWIND CAMP STATION

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530153316
Firmware Version	3.1
Calibration Date	6/23/2025
Test Name	MANUAL_001
Test Start Time	8:23:22 AM
Test Start Date	4/28/2026
Test Length [D:H:M]	0:00:53
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.006
Mass Minimum [mg/m3]	0.002
Mass Maximum [mg/m3]	0.06
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	53

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.005		
120	0.004		
180	0.004		
240	0.004		
300	0.004		
360	0.006		
420	0.004		
480	0.005		
540	0.004		
600	0.004		
660	0.004		
720	0.004		
780	0.004		
840	0.004		
900	0.004		
960	0.007		
1020	0.004		
1080	0.006		
1140	0.004		
1200	0.003		
1260	0.003		
1320	0.004		
1380	0.004		

1440	0.003
1500	0.003
1560	0.003
1620	0.003
1680	0.003
1740	0.003
1800	0.003
1860	0.003
1920	0.005
1980	0.003
2040	0.018
2100	0.06
2160	0.013
2220	0.004
2280	0.015
2340	0.003
2400	0.004
2460	0.009
2520	0.034
2580	0.002
2640	0.011
2700	0.004
2760	0.003
2820	0.006
2880	0.005
2940	0.003
3000	0.002
3060	0.004
3120	0.003
3180	0.005

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530153316
Firmware Version	3.1
Calibration Date	6/23/2025
Test Name	MANUAL_002
Test Start Time	10:01:02 AM
Test Start Date	4/28/2026
Test Length [D:H:M]	0:00:59
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.004
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.04
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	59

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.001		
120	0.003		
180	0.003		
240	0.004		
300	0.012		
360	0.006		
420	0.002		
480	0.001		
540	0.015		
600	0.001		
660	0.002		
720	0.001		
780	0.003		
840	0.002		
900	0.001		
960	0.001		
1020	0.001		
1080	0.001		
1140	0.002		
1200	0.002		
1260	0.009		
1320	0.011		
1380	0.002		
1440	0.002		

1500	0.006
1560	0.002
1620	0.003
1680	0.008
1740	0.001
1800	0.004
1860	0.01
1920	0.003
1980	0.002
2040	0.008
2100	0.001
2160	0.004
2220	0.006
2280	0.001
2340	0.002
2400	0.007
2460	0.001
2520	0.026
2580	0.001
2640	0.004
2700	0.002
2760	0.04
2820	0.004
2880	0.001
2940	0.003
3000	0.001
3060	0.001
3120	0.002
3180	0.002
3240	0.003
3300	0.003
3360	0.001
3420	0.001
3480	0.001
3540	0.002

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530153316
Firmware Version	3.1
Calibration Date	6/23/2025
Test Name	MANUAL_003
Test Start Time	11:48:00 AM
Test Start Date	4/28/2026
Test Length [D:H:M]	0:00:39
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.002
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.008
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	39

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.002		
120	0.001		
180	0.003		
240	0.005		
300	0.008		
360	0.002		
420	0.002		
480	0.002		
540	0.001		
600	0.001		
660	0.001		
720	0.001		
780	0.002		
840	0.001		
900	0.002		
960	0.001		
1020	0.001		
1080	0.001		
1140	0.002		
1200	0.001		
1260	0.001		
1320	0.001		
1380	0.002		
1440	0.003		

1500	0.001
1560	0.001
1620	0.002
1680	0.002
1740	0.002
1800	0.001
1860	0.001
1920	0.001
1980	0.002
2040	0.002
2100	0.001
2160	0.001
2220	0.001
2280	0.002
2340	0.002

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530153316
Firmware Version	3.1
Calibration Date	6/23/2025
Test Name	MANUAL_004
Test Start Time	12:52:13 PM
Test Start Date	4/28/2026
Test Length [D:H:M]	0:00:41
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.003
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.015
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	41

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.002		
120	0.004		
180	0.002		
240	0.001		
300	0.002		
360	0.002		
420	0.002		
480	0.002		
540	0.002		
600	0.002		
660	0.002		
720	0.011		
780	0.015		
840	0.008		
900	0.002		
960	0.005		
1020	0.003		
1080	0.002		
1140	0.004		
1200	0.005		
1260	0.002		
1320	0.002		
1380	0.002		
1440	0.002		

1500	0.002
1560	0.002
1620	0.002
1680	0.003
1740	0.002
1800	0.002
1860	0.002
1920	0.002
1980	0.002
2040	0.003
2100	0.004
2160	0.009
2220	0.002
2280	0.004
2340	0.003
2400	0.003
2460	0.004

DOWNWIND CAMP STATION

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530182201
Firmware Version	3.1
Calibration Date	7/21/2025
Test Name	MANUAL_001
Test Start Time	8:29:34 AM
Test Start Date	4/28/2026
Test Length [D:H:M]	0:00:52
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.008
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	52

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0		
120	0		
180	0.004		
240	0.001		
300	0		
360	0		
420	0		
480	0		
540	0		
600	0		
660	0		
720	0		
780	0		
840	0		
900	0		
960	0.002		
1020	0.004		
1080	0.001		
1140	0		
1200	0		
1260	0		
1320	0.001		
1380	0.001		

1440	0
1500	0
1560	0
1620	0
1680	0
1740	0
1800	0
1860	0
1920	0
1980	0
2040	0
2100	0
2160	0
2220	0.008
2280	0
2340	0
2400	0
2460	0
2520	0
2580	0
2640	0
2700	0
2760	0
2820	0
2880	0
2940	0
3000	0
3060	0
3120	0

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530182201
Firmware Version	3.1
Calibration Date	7/21/2025
Test Name	MANUAL_002
Test Start Time	10:05:19 AM
Test Start Date	4/28/2026
Test Length [D:H:M]	0:01:00
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.005
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	60

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.001		
120	0		
180	0		
240	0		
300	0		
360	0		
420	0		
480	0		
540	0		
600	0		
660	0		
720	0		
780	0		
840	0		
900	0		
960	0		
1020	0		
1080	0		
1140	0		
1200	0		
1260	0		
1320	0		
1380	0.001		
1440	0		

1500	0
1560	0
1620	0
1680	0
1740	0
1800	0
1860	0
1920	0
1980	0.001
2040	0
2100	0
2160	0.001
2220	0.001
2280	0
2340	0.001
2400	0
2460	0
2520	0
2580	0
2640	0
2700	0.005
2760	0
2820	0
2880	0
2940	0
3000	0
3060	0
3120	0
3180	0.001
3240	0.001
3300	0.001
3360	0.001
3420	0.001
3480	0.001
3540	0.001
3600	0.001

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530182201
Firmware Version	3.1
Calibration Date	7/21/2025
Test Name	MANUAL_003
Test Start Time	11:53:08 AM
Test Start Date	4/28/2026
Test Length [D:H:M]	0:00:40
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.003
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.037
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	40

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.037		
120	0.003		
180	0.002		
240	0.002		
300	0.002		
360	0.003		
420	0.008		
480	0.002		
540	0.002		
600	0.001		
660	0.002		
720	0.002		
780	0.001		
840	0.006		
900	0.004		
960	0.002		
1020	0.002		
1080	0.005		
1140	0.006		
1200	0.002		
1260	0.002		
1320	0.002		
1380	0.004		
1440	0.001		

1500	0.002
1560	0.001
1620	0.001
1680	0.002
1740	0.001
1800	0.001
1860	0.002
1920	0.002
1980	0.001
2040	0.002
2100	0.003
2160	0.005
2220	0.002
2280	0.002
2340	0.002
2400	0.002

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530182201
Firmware Version	3.1
Calibration Date	7/21/2025
Test Name	MANUAL_004
Test Start Time	12:57:37 PM
Test Start Date	4/28/2026
Test Length [D:H:M]	0:00:41
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.005
Mass Minimum [mg/m3]	0.001
Mass Maximum [mg/m3]	0.021
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	41

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.002		
120	0.006		
180	0.005		
240	0.007		
300	0.003		
360	0.003		
420	0.002		
480	0.002		
540	0.003		
600	0.001		
660	0.012		
720	0.005		
780	0.014		
840	0.006		
900	0.002		
960	0.002		
1020	0.002		
1080	0.002		
1140	0.002		
1200	0.004		
1260	0.012		
1320	0.003		
1380	0.002		
1440	0.002		

1500	0.002
1560	0.002
1620	0.002
1680	0.003
1740	0.002
1800	0.003
1860	0.005
1920	0.002
1980	0.002
2040	0.003
2100	0.021
2160	0.019
2220	0.006
2280	0.004
2340	0.004
2400	0.007
2460	0.003

The experience to
listen
The power to
solve℠

Barton
&Loguidice

www.bartonandloguidice.com