

From: Ziegelbauer, Heather <Heather.Ziegelbauer@jacobs.com>
Sent: Wednesday, January 15, 2025 4:08 PM
To: Kleinberg, Andrew
Cc: Carey, Angela J - DNR; Ryan Suennen; Finney, David; Krueger, Sarah E - DNR; Denice Nelson; Scott D Wahl; Brandy Powell
Subject: Quarterly Progress Report - Tyco Fire Products LP Stanton Street Property, Marinette, WI
Attachments: 20250115-TycoQuarterlyReport.pdf

**CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Andrew,
On behalf of Tyco, attached is the quarterly progress report covering the period from October 1 through December 31, 2024, for the Tyco Fire Products LP Stanton Street property, Marinette, WI.

Please let us know if you have any questions.

Regards,

Heather Ziegelbauer, PE* | [Jacobs](#) | Project Manager
O:+1.262.644.6167 | M:+1.312.933.1017 | heather.ziegelbauer@jacobs.com
1610 N. 2nd Street, Suite 201 | Milwaukee, WI 53202 | USA
*Wisconsin

NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.



1610 North 2nd Street
Suite 201
Milwaukee, Wisconsin 53212
United States
T +1.414.272.2426
F +1.414.272.4408
www.jacobs.com

January 15, 2025

Andrew Kleinberg
U.S. Environmental Protection Agency Region 5
Land, Chemicals & Redevelopment Division
77 West Jackson Blvd, LR-16J
Chicago, IL 60604-3590

Subject: *Quarterly Progress Report (October through December 2024)*
Administrative Order on Consent (February 26, 2009)
Tyco Fire Products LP, Stanton Street Facility, Marinette, Wisconsin
WID 006 125 215

Dear Mr. Kleinberg:

In accordance with Section VI, 21, b (page 10) of the Administrative Order on Consent (AOC), dated February 26, 2009,¹ Tyco Fire Products LP (Tyco) has prepared this quarterly progress report for the U.S. Environmental Protection Agency (EPA) Region 5 and Wisconsin Department of Natural Resources (WDNR) (collectively referred to herein as the Agencies). Progress reports are required to document activities conducted as part of the Resource Conservation and Recovery Act (RCRA) corrective actions at the Tyco property on One Stanton Street in Marinette, Wisconsin (Figure 1). This report covers the period from October 1 through December 31, 2024, and presents a brief description of the work performed, data collected, problems encountered, and schedule of activities as required by the 2009 AOC and subsequent agreements.

1.0 Work Completed During This Reporting Period

1.1 Groundwater Collection and Treatment

The following subsections summarize the current status of the groundwater collection and treatment components and groundwater system operations during the fourth quarter 2024 reporting period. Attachment 1 provides a summary of the operational data for the groundwater collection and treatment system (GWCTS) during this reporting period and includes Table 1-1, which lists the estimated volumes of water extracted, treated, stored, discharged, and disposed of offsite. Attachment 2 contains the monthly Discharge Monitoring Reports for Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit WI-0001040-08-01 for Outfall OF004 (Figure 2) and Sampling Point SP108 (GWCTS effluent).

¹ U.S. Environmental Protection Agency. 2009. *Resource Conservation and Recovery Act Administrative Order on Consent, Ansul, Incorporated*. EPA Docket No. RCRA-05-2009-0007542-S-02-001. February 26.

1.1.1 GWCTS Operations Status

The GWCTS treats groundwater extracted from the Main Plant (FD-1, EW-5, EW-6, and EW-7) and Wetlands Area (EW-1) to prevent surface flooding of the facility (Figures 1 and 2). The GWCTS also treats groundwater recovered from the pump down program (PDP) operations, which include the former Salt Vault (HW-1 and HW-2) and former 8th Street Slip (EW-8 and EW-9) areas (Figures 1 and 2). PDP water was also used to fill offsite disposal trucks (disposed of offsite at the Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio) if additional volume was needed when reject water was being filled into the trucks or when GWCTS operations were down for maintenance.

PDP operations continued under management of Endpoint Solutions (Endpoint) of Franklin, Wisconsin, during the reporting period, and Endpoint coordinated with Tyco on PDP settings and conveyance to the GWCTS.

GWCTS operations continued under management of Tyco operators. The GWCTS operated continuously except for select weekends, holidays, and short-term maintenance. There were no shutdowns for extended maintenance and optimization configuration.

Maintenance that affected operations during the reporting period is as follows:

- As noted in the last quarterly report, the vibratory shear-enhanced processing (VSEP) units were shut down the weekend before August 26, 2024, due to high conductivity readings that caused performance issues with the reverse osmosis (RO) system. The continued use of the VSEP units is under evaluation. Alternatives to the VSEP units are being considered to determine whether another process would be a better fit for sustained system operations. Proposed changes, if any, to the GWCTS treatment train will be submitted for approval from all appropriate Agencies prior to implementing.
- Several maintenance activities were conducted on RO Units 1 and 2 resulting in some minimal downtime. Activities included membrane cleaning and replacement of O-rings and fittings. Several membranes were also replaced on RO-1 on December 30, 2024. RO-1 and RO-2 will continue to be evaluated to determine whether any additional membrane replacement is needed during first quarter 2025.

Other GWCTS activities during the reporting period are as follows:

- The media were changed out in the two granular activated carbon and two granular ferric hydroxide arsenic media pressure vessels in mid-October 2024.
- As noted in the last quarterly report, details regarding the proposed chemical addition of ferric sulfate (to help with reducing solids loadings on the microfiltration units) and an anti-foaming product (Foamtrol AF2050) were emailed to the WDNR WPDES staff for review on September 4 and September 13, 2024, and are currently under their review. On October 21, 2024, WDNR requested that an additive review form for the Foamtrol product be provided. Tyco is working with the Foamtrol product vendor (Veolia Water Technologies & Solutions) to conduct and obtain the required testing results noted in the form.

1.1.2 Main Plant and Wetlands Area Extraction Well Maintenance

During the reporting period, the Main Plant and Wetlands Area extraction well maintenance and improvement activities were conducted as follows:

- EW-7, northwestern corner of the Main Plant: The vault around EW-7 was replaced on December 16, 2024.
- EW-4, northeastern corner of the Main Plant: As noted in the previous quarterly report, the capacity of extraction well EW-4 is limited (typically 0.5 gpm or less). As such, this pump is not typically operated, and the focus of operations in the Main Plant is at EW-5, EW-6, and EW-7. Tyco submitted the design document on August 28, 2024, for instead using new horizontal extraction wells (HW-3 and HW-4), for the Agencies' review and approval. Additional email communication regarding EPA questions on the design occurred on September 6 and September 13, 2024. Based on the October 3, 2024 monthly meeting, the Agencies gave verbal approval to start planning for the installation of these wells, and on November 1, 2024, EPA emailed an Extraction Well Design Memo Approval with Comments letter to approve the installation. Planning and procurement activities started in fourth quarter 2024, and installation of HW-3 and HW-4 is planned to occur prior to spring 2025.
- Proposed extraction well EW-15, outside the wall in the northwestern corner of the site: As noted in the previous quarterly report, the intent of EW-15 is to extract groundwater outside the wall to reduce potential discharge of groundwater to the river between the western extents of the vertical barrier wall and the Fincantieri Marinette Marine Corporation property to the west. Tyco submitted the design document (in the same deliverable for horizontal wells HW-3 and HW-4) on August 28, 2024, for the proposed new extraction well for the Agencies' review and approval. Additional email communication regarding EPA questions on the design occurred on September 6 and September 13, 2024. Based on the October 3, 2024 monthly meeting, the Agencies were agreeable to installing EW-15 with the caveat of developing a pilot test program for the Agencies to evaluate and confirm that the new well will not interfere with the current RCRA remedy objectives. This was noted in the November 1, 2024 EPA letter to approve the installation. EW-15 and monitoring well nest MW132S and MW132M installation was overseen by Arcadis U.S., Inc. the week of December 2, 2024, and initial development activities of the wells were performed shortly after. Additional development will be conducted at EW-15 in January 2025 with the drill rig. Endpoint will prepare documentation to summarize the installation and well construction details once the HW-3 and HW-4 wells are also installed. In the meantime, the EW-15 pilot test work plan is being preparing and will be submitted in first quarter 2025.

1.1.3 GWCTS Operations

As summarized in Attachment 1, Table 1-1, a total of approximately 1,551,972 gallons of groundwater was extracted from the site with the sitewide extraction well network for the reporting period, with an overall average pumping rate of 11.7 gpm. The GWCTS operated 89 days during the reporting period and treated approximately 1,491,213 gallons (overall average influent rate of 11.3 gpm) of this water, which was extracted from both the active Main Plant and Wetlands Area extraction wells, and a portion of the water from the PDP system wells (Figures 1 and 2). The GWCTS estimated effluent total for the reporting period is 1,187,140 gallons (overall average effluent rate of 9.0 gpm). The monthly Discharge Monitoring Report results from September 2024, October 2024, and November 2024 (Attachment 2) indicate that treated groundwater GWCTS effluent complies with both the permitted SP108 GWCTS effluent limits and Outfall OF004 discharge requirements.

An estimated 495,984 gallons of water (Attachment 1, Table 1-1) was removed from the site during the reporting period and disposed of at the Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio.

1.2 PDP Water Levels

Both the former Salt Vault and former 8th Street Slip areas have maintained average groundwater levels below the target elevation during the reporting period. These data are included in Attachment 3 (the target elevation calculation included in the manual water level measurements table) and Attachment 4 (one hydrograph with the manual water level measurement average elevations and the transducer data collected as part of the pump house system operations, and a hydrograph for each area that provides the individual manual water level data for each well and the average elevation relative to the river elevation). An inward hydraulic gradient was maintained for each of these areas during the entire reporting period.

Manual water level measurements were collected a minimum frequency of monthly in the PDP area, and the electronic PDP transducer data were reviewed and used to monitor the water levels on a weekly basis.

1.3 Barrier Wall Groundwater Monitoring Activities

The fourth quarter 2024 barrier wall groundwater monitoring semiannual water level event was completed between November 11 and 13, 2024, by Endpoint. The water levels were measured in accordance with the *Revised Barrier Wall Groundwater Monitoring Plan Update (2015 Monitoring Plan)*² and the 2019 Addendum to the 2015 Monitoring Plan.³ In addition, as was done during the June 2024 event, four additional monitoring wells were voluntarily added to the collection of the sitewide water levels at the shallow- and medium-depth wells at monitoring well nests MW028 and MW029 installed as part of the per- and polyfluoroalkyl substances (PFAS) project.⁴ These wells were included in 2024 to allow the expansion of groundwater elevation contouring upgradient of the barrier wall.

Pressure transducer-related activities were completed by Endpoint as follows:

- October 14, 2024: Pressure transducer data were downloaded from MW003S, MW003D, and MW106S.
- October 21, 2024: New pressure transducers and In-Situ Inc. VuLink data logger/cellular telemetry devices were installed at MW068S and MW121S to allow for remote telemetry monitoring and to improve water level monitoring across the Main Plant.
- November 12, 2024: Transducer data were downloaded from all transducers.
- Week of December 23, 2024: VuLinks were restored to factory settings to remove a pressure offset that was included in calibration of the non-vented transducers at the time of installation.

Bedrock test well BT-02 was abandoned the week of December 2, 2024 (concurrently with the EW-15 installation work noted previously). BT-02 was planned for abandonment in 2023 but was inaccessible at that time due to the placement of an office trailer over the well. Details on BT-02 and the abandonment request were included in the May 17, 2023 email correspondence to the Agencies.

EPA emailed a letter on December 4, 2024, with the Agencies' review comments on the *Five-Year Technical Review Report*,⁵ which also incorporated review comments regarding Tyco's April 1, 2024

² CH2M HILL, Inc. 2015. *Revised Barrier Wall Groundwater Monitoring Plan Update*. September 3.

³ Jacobs. 2019. *Addendum to 2015 Barrier Wall Groundwater Monitoring Plan Update*. June.

⁴ WDNR PFAS project noted on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web BRRTS # 02-38-581955.

⁵ Jacobs. 2024. *Five-Year Technical Review Report*. April 1.

response to the Agencies' comments⁶ on the 2022 *Barrier Wall Groundwater Monitoring Annual Monitoring Report*⁷ and the April 10, 2024 *Response to Comments on 2023 Sediment Sampling Report*.⁸

1.4 Maintenance Inspections

The following maintenance inspection field activities were completed in fourth quarter 2024.

1.4.1 Cover Area Inspections

The following updates are provided for cover areas (Figure 3) where issues were identified during the May 21, 2024 inspection:

- Cover Area K had a small area along Building 67 where a portion of the soil cover had eroded. This will be addressed by ChemDesign in first quarter 2025 when ChemDesign completes upgrades to the gutter system on Building 67 in this same area.

1.4.2 Vertical Barrier Wall Inspections

The following updates are provided for the findings identified during the 2023 and 2024 inspections that required maintenance activities:

- Erosion on the land side: Asphalt work to address the erosion along the landside of the sheet pile vertical barrier wall in the northwestern corner of the site (near Weir #1; Figure 2), noted during the 2023 and 2024 inspections, was completed in fourth quarter 2024.
- Missing external waler tieback caps at the end of the tieback: The custom-made caps for the 35 locations with missing caps noted during the 2023 inspection, plus 5 spares, were ordered and arrived in early November. Note that the caps are external to the vertical barrier wall and are not required for structural stability or for the wall to function as a containment barrier. The week of November 11, 2024, Endpoint replaced two of the tieback caps. The other locations had one of the following issues:
 - The caps were accessible but had bolts that were broken or sheared off that could not be removed with the available equipment and were not replaced; these locations will need additional consideration on the best approach to replace the caps, if possible.
 - The caps were not accessible because they were underwater.

The remaining tieback cap replacements will recommence in 2025 when weather and water levels allow.

Documentation of the 2024 inspection and repair activities will be provided in the annual report.

1.5 Monthly Meetings

Monthly teleconference meetings were attended by EPA, WDNR, Tyco, Jacobs, and Endpoint on October 3, November 14, and December 5, 2024. During each meeting, the status of deliverables and a brief update of completed or upcoming activities were discussed.

⁶ Jacobs. 2024. *Response to Comments on 2022 Barrier Wall Annual Groundwater Monitoring Report Review*. April 1.

⁷ Jacobs. 2023. *2022 Barrier Wall Groundwater Monitoring Annual Report*. April 15.

⁸ Jacobs. 2024. *Response to Comments on 2023 Sediment Sampling Report*. April 10.

1.6 Vapor Intrusion Assessment and Work Plan Comments

As noted in the last quarterly report, Tyco finalized and submitted the *Response to Comments on Vapor Intrusion Work Plan Review With Comments* memorandum (which also included the proposed work plan approach) on September 4, 2024. EPA emailed a letter on December 4, 2024, with the Agencies' review comments on the Vapor Intrusion Workplan Response to Comments. Tyco is preparing the updated work plan to address the Agencies' comments and will submit the document in first quarter 2025.

1.7 Additional Activities

1.7.1 Soil Management Plan Activities

The following soil management and disposal activities occurred during the reporting period:

- Tyco leases a portion of the site to ChemDesign. The new water line work to provide water to a new building (Building 1) constructed by ChemDesign (noted in the last quarterly report) was completed the week of October 14, 2024. A materials management plan (MMP) for this work was approved by WDNR⁹ and work within cover Area J was approved by EPA.¹⁰ No soils were generated during the work, and approximately 4,920 gallons of groundwater were generated and disposed of offsite at the Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio. ChemDesign will submit a report to the WDNR and EPA closing out the MMP and cover area activities in first quarter 2025.
- Grading and paving activities around Building 18 resulted in five rollofs of soil that were disposed of offsite in November 2024 as non-hazardous at the Waste Management Landfill in Arlington, Oregon. The laboratory data for the four waste characterization samples collected are included in Attachment 5.
- Grading and paving activities around Building 42 resulted in an additional seven rollofs of soil that were disposed of offsite in December 2024 as non-hazardous at the Waste Management Landfill in Arlington, Oregon. The laboratory data for the two waste characterization samples collected are included in Attachment 6.
- ChemDesign conducted construction activities to upgrade the Building 38 motor control center and Building 84 ramp. The activities resulted in one rolloff of soil that was disposed of offsite in October 2024 as non-hazardous at the Waste Management Landfill in Arlington, Oregon. The laboratory data for the three waste characterization samples collected are included in Attachment 7.
- Extraction well EW-15, bedrock test well BT-02, and monitoring well nest MW132 (MW132S and MW132M) soils were placed in a rolloff and are pending laboratory waste characterization results to be disposed of offsite. Well development activities resulted in the generation of approximately 500 gallons of groundwater, which was temporarily placed in a tote and shortly after disposed of offsite at the Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio. Final details associated with these wastes will be summarized in documentation that Endpoint will prepare that summarizes the installation and extraction well construction details in accordance with EPA's November 1, 2024 design approval letter.

⁹ WDNR. 2024. Email: DNR Review of MMP for Installation of ChemDesign Water Line, Stanton Street Facility. March 1.

¹⁰ EPA. 2024. Email: ChemDesign Water Line Installation Memo Approval. March 1.

2.0 Data Collected

Extraction and treatment volumes, analytical testing, and discharge data are collected as part of WPDES Permit WI-0001040-08-0. Attachment 2 includes the GWCTS monthly WPDES Discharge Monitoring Reports for September 2024 through November 2024, and Attachment 1 contains additional data on GWCTS operations for the reporting period.

Monthly groundwater elevation data were collected from monitoring wells in the former 8th Street Slip and former Salt Vault areas in accordance with the PDP requirements, and the data are included in the 2024 PDP summary table (Attachment 3). Water level data from transducers in monitoring wells collected as part of the PDP pump house system are also summarized in hydrographs (Attachment 4). Based on the weekly and then monthly data collected throughout 2024, quarterly monitoring will begin in 2025 as required in the post-drawdown monitoring phase (which requires quarterly manual water level measurements, instead of monthly). The electronic PDP transducer data will be reviewed and used to monitor the water levels on a weekly basis.

Barrier wall groundwater monitoring semiannual water level event data collected between November 11 and 13, 2024, will be included in the annual report. Groundwater elevation data recorded by transducers are being compiled and evaluated. The transducer data will also be provided in the annual report.

3.0 Problems Encountered

There were no problems encountered during this reporting period.

4.0 Schedule of Upcoming Activities

The following summarizes the activities to be conducted during the next reporting period:

- Submit the quarterly progress report.
- Continue operating the GWCTS, which includes PDP operations in the former Salt Vault and former 8th Street Slip areas.
- Submit to WDNR the additive review form for Foamtrol AF2050 product.
- Measure PDP quarterly water levels in the former Salt Vault and former 8th Street Slip.
- Submit a revised vapor intrusion work plan.
- ChemDesign will address the remaining inspection finding for cover Area K.
- ChemDesign will submit a documentation report for the new water line work conducted in cover Area J.
- Initiate installation and connection to the GWCTS of horizontal wells HW-3 and HW-4 to replace EW-4 in order to provide more operational flexibility for maintaining groundwater levels across the Main Plant area.
- Submit the work plan for pilot testing of new extraction well EW-15 to evaluate the feasibility of extracting groundwater outside the wall to limit the discharge of groundwater to the river while limiting any impacts to the current remedy.
- Submit the 2024 annual report.

- Address remaining sheet pile vertical barrier wall tieback cap replacements in 2025 when weather and water levels allow, if possible.

5.0 List of Key Correspondence and Document Submittals

Project-related documents submitted to and received from the Agencies during fourth quarter 2024 are summarized in Tables 1 and 2, respectively.

Table 1. Documents Submitted

Quarterly Progress Report (October through December 2024), Tyco Fire Products LP Facility, Marinette, Wisconsin

Description of Submittal	Submitted To	Date Submitted
Email—October 3rd Proposed RCRA Meeting Agenda Items	EPA and WDNR	October 3, 2024
Quarterly Progress Report (Third Quarter 2024)	EPA	October 15, 2024
Email—Responding to WDNR follow up regrading high capacity well application package for addition of new extraction wells EW-15, HW-3 and HW-4 and changes to existing extraction wells	WDNR	October 15, 2024
Email—November 14th Proposed RCRA Meeting Agenda Items	EPA and WDNR	November 13, 2024
Email—High Capacity Well 95281 (EW-15) Installation Notification	WDNR	November 25, 2024
Draft 2025 to 2034 Cost Estimate	EPA	December 3, 2024
Email—December 5th Proposed RCRA Meeting Agenda Items	EPA and WDNR	December 4, 2024
Email—Identifying the full list of extraction wells planned to be abandoned as indicated in WDNR's November 1, 2024 high capacity permit email	EPA	December 6, 2024

Table 2. Correspondence from Agency

Quarterly Progress Report (October through December 2024), Tyco Fire Products LP Facility, Marinette, Wisconsin

Description of Correspondence	Submitted By	Date Submitted
WDNR Emails—Follow up regrading high capacity well application package for addition of new extraction wells EW-15, HW-3 and HW-4 and changes to existing extraction wells	WDNR	October 15, 2024
WDNR Email—Requesting the additive review form be filled out for Foamtrol AF2050	WDNR	October 21, 2024
WDNR Email—Approval for High Capacity Wells 95280 (HW-3 and HW-4) and 95281 (EW-15) and abandonment of unused wells	WDNR	November 1, 2024
EPA Letter— <i>Extraction Well Design Memo Approval with Comments</i>	EPA	November 1, 2024
EPA Letter— <i>2023 Five-Year Review EPA & WDNR Comments</i>	EPA	December 4, 2024
EPA Letter— <i>Review - Vapor Intrusion Workplan Response to Comments</i>	EPA	December 4, 2024

If you have any questions or require additional information, please contact me at 262-644-6167 or Denice Nelson at 651-280-7259.

Respectfully Yours,

Jacobs



Heather Ziegelbauer
Project Manager

cc: Angela Carey, WDNR
Sarah Krueger, WDNR
Ryan Suennen, Tyco Fire Products
Denice Nelson, Johnson Controls
Scott Wahl, Tyco Fire Products
Mariel Carter, Stephenson Public Library

Figures

- 1 Site Map
- 2 Site Plan with Wells
- 3 Cover Area Location Map

Attachments

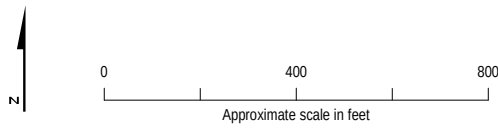
- 1 Groundwater Collection and Treatment System Operation Summary
- 2 Discharge Monitoring Reports for the Groundwater Collection and Treatment System and Outfall OF004
- 3 2024 PDP Groundwater Elevation Monitoring
- 4 2024 PDP System Hydrographs
- 5 Building 18 Paving-Related Soil Waste Characterization Laboratory Results
- 6 Building 42 Paving-Related Soil Waste Characterization Laboratory Results
- 7 ChemDesign Building 38 and Building 84 Construction-Related Soil Waste Characterization Laboratory Results

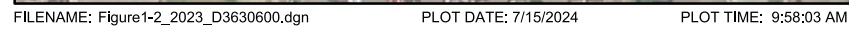
Document Control No.: D3838400.326

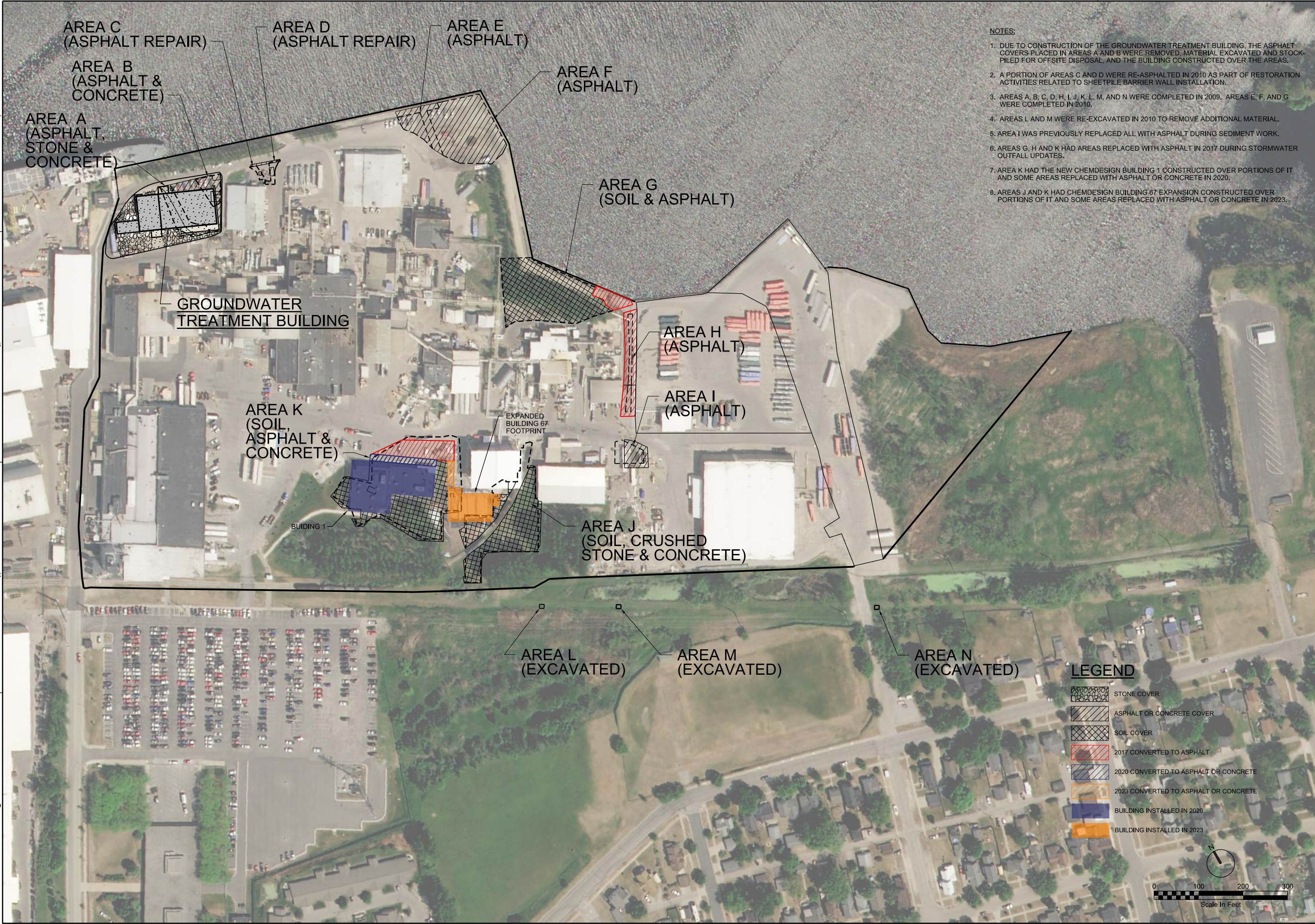
Figures



Figure 1. Site Map
Tyco Fire Products LP
Marinette, WI







- NOTES:
- 1. DUE TO CONSTRUCTION OF THE GROUNDWATER TREATMENT BUILDING, THE ASPHALT COVERS PLACED IN AREAS A AND B WERE REMOVED, MATERIAL EXCAVATED AND STOCK-PILED FOR OFFSITE DISPOSAL, AND THE BUILDING CONSTRUCTED OVER THE AREAS.
 - 2. A PORTION OF AREAS C AND D WERE RE-ASPHALTED IN 2010 AS PART OF RESTORATION ACTIVITIES RELATED TO SHEETPILE BARRIER WALL INSTALLATION.
 - 3. AREAS A, B, C, D, H, I, J, K, L, M, AND N WERE COMPLETED IN 2009. AREAS E, F, AND G WERE COMPLETED IN 2010.
 - 4. AREAS L AND M WERE RE-EXCAVATED IN 2010 TO REMOVE ADDITIONAL MATERIAL.
 - 5. AREA I WAS PREVIOUSLY REPLACED ALL WITH ASPHALT DURING SEDIMENT WORK.
 - 6. AREAS G, H AND K HAD AREAS REPLACED WITH ASPHALT IN 2017 DURING STORMWATER OUTFALL UPDATES.
 - 7. AREA K HAD THE NEW CHEMDESIGN BUILDING 1 CONSTRUCTED OVER PORTIONS OF IT AND SOME AREAS REPLACED WITH ASPHALT OR CONCRETE IN 2020.
 - 8. AREAS J AND K HAD CHEMDESIGN BUILDING 67 EXPANSION CONSTRUCTED OVER PORTIONS OF IT AND SOME AREAS REPLACED WITH ASPHALT OR CONCRETE IN 2023.

- LEGEND
- STONE COVER
 - ASPHALT OR CONCRETE COVER
 - SOIL COVER
 - 2017 CONVERTED TO ASPHALT
 - 2020 CONVERTED TO ASPHALT OR CONCRETE
 - 2023 CONVERTED TO ASPHALT OR CONCRETE
 - BUILDING INSTALLED IN 2020
 - BUILDING INSTALLED IN 2023

JACOBS

FIGURE 3
COVER AREA LOCATION MAP

SCALE: 1" = 200'	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	DECEMBER 2018
PROJ	704683
REVISION 1	

PRELIMINARY

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

DSGN T. CHAPMAN
DR G. BOWLES
CHK J. DANKO
APVD H. ZIEGELBAUER

Attachment 1

Groundwater Collection and Treatment System Operation Summary

Groundwater Collection and Treatment System Operations for Tyco Fire Products LP, Marinette, Wisconsin, October through December 2024

The following summarizes groundwater collection and treatment system operations from October 1 through December 31, 2024, at the Tyco Fire Products LP facility on Stanton Street in Marinette, Wisconsin:

- The groundwater collection and treatment system operated for 30 days in October 2024, 30 days in November 2024, and 29 days in December 2024, for a total of 89 days.
- For the reporting period, the precipitation recorded from the weather station in Marinette, Wisconsin, was 10.51 inches of rain and 7.6 inches of snow (<https://www.weather.gov/wrh/Climate?wfo=grb>).
- Table 1-1 lists the estimated volumes of water extracted, treated, and discharged under the Wisconsin Pollutant Discharge Elimination System permit as well as the volumes disposed of offsite and those currently stored onsite and awaiting treatment or disposal.

Table 1-1. GWCTS Operations Summary (October through December 2024)

Tyco Fire Products LP, Marinette, Wisconsin

Item Description	Beginning of 4th Quarter 2024	End of 4th Quarter 2024	Estimated Gallons, 4th Quarter 2024	Average Rate* (gallons per minute)	Comments
Total GW Extracted	-	-	1,551,972	11.7	Total GW extracted from the site at all extraction wells in all areas
PDP Total	-	-	189,315	1.4	Some PDP GW was treated at the GWCTS and the remainder disposed of offsite
SV Total	-	-	107,788	0.8	
SV - Totalizer HW-2-2	438,569	438,593	24	0.0	
SV - Totalizer HW-2-1	578,492	593,613	15,121	0.1	
SV - Totalizer HW-1-2	687,168	717,831	30,663	0.2	
SV - Totalizer HW-1-1	528,229	590,208	61,980	0.5	
8SS Total	-	-	81,527	0.6	
8SS - Totalizer Well #9	821,286	858,768	37,482	0.3	
8SS - Totalizer Well #8	772,967	817,012	44,045	0.3	
Totalizer FD-1 in MP	110,441	134,084	23,642	0.2	Some French drain GW was treated at the GWCTS and the remainder disposed of offsite
WA and MP Total	-	-	1,339,015	10.1	All treated by GWCTS
WA - Totalizer EW-1	70,155	188,205	118,050	0.9	
MP - Totalizer EW-4	0	0	0	0.0	
MP - Totalizer EW-5	344,715	631,995	287,280	2.2	
MP - Totalizer EW-6	581,410	975,955	394,545	3.0	
MP - Totalizer EW-7	878,485	1,417,625	539,140	4.1	
Additional Water Collected (from Non-GWCTS Sources)	-	-	5,420	-	Water was collected and disposed of offsite during the reporting period from the ChemDesign water line installation work (~4,920 gallons) and well installation development activities for EW-15 and MW132S and MW132M (~500 gallons)
Remaining Water Stored in Frac Tanks Onsite	0	0	0	-	No water remained stored in frac tanks at the end of the reporting period
GWCTS Operations	-	-	-	-	
PDP GW Transferred to GWCTS for Treatment (P200-1)	260,194	412,382	152,189	1.1	Consists of PDP and FD-1 GW sent to GWCTS for treatment
PDP GW Transferred to GWCTS for Treatment (P300-1)	748,119	748,129	10	0.0	Consists of PDP and FD-1 GW sent to GWCTS for treatment
GWCTS Influent**	-	-	1,491,213	11.3	Consists of WA and MP GW extracted, and component of PDP and FD-1 GW transferred to GWCTS (from P200-1 and P300-1)
GWCTS Effluent	3,172,315	4,359,455	1,187,140	9.0	
GWCTS Reject Water	595,410	1,025,215	429,805	3.2	Water is disposed of offsite
Outfall OF004 Discharge	15,983,300	18,902,496	2,919,196	22.0	Combined GWCTS effluent and facility wastewater effluent discharged to river
Total Water Disposed of Offsite (based on totalizer values)	-	-	495,984	-	Consists of PDP and FD-1 GW that was not treated, reject water, and additional GW collected from non-GWCTS sources – Water was disposed of at the Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio

GWCTS = groundwater collection and treatment system

PDP = pump down program

MP = Main Plant

*Pumping averages are calculated as if the pump or system were operating 24-hours a day, 7-days a week

**The GWCTS influent is based on the volume of GW extracted from the WA and MP and the PDP GW volume transferred to the GWCTS for treatment (from totalizers P200-1 and P300-1) and represent the total GW volume treated.

WA = Wetlands Area

GW = groundwater

SV = former Salt Vault

8SS = former 8th Street Slip

Attachment 2
Discharge Monitoring Reports for the Groundwater
Collection and Treatment System and
Outfall OF004

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: TYCO FIRE PRODUCTS LP
Contact Address: ,
Facility Contact: ,
Phone Number:
Reporting Period: 09/01/2024 - 09/30/2024
Form Due Date: 10/21/2024
Permit Number: 0001040

Date Received:	
DOC:	550629
FIN:	7245
FID:	438039470
Region:	Northeast Region
Permit Drafter:	Laura K Rodriguez Alvarez
Reviewer:	Laura A Gerold
Office:	Green Bay

Sample Point(s) active?

- No - 703 sample point (Menominee River Intake)
- Yes - 101 sample point (Metal Finishing Effluent)
- Yes - 704 sample point (GWCTS Influent)
- Yes - 107 sample point (Mercury Field Blank Results)
- Yes - 004 sample point (Combined Process WW & GW)
- Yes - 108 sample point (GWCTS Effluent)

Wastewater Discharge Monitoring Long Report

Facility Name: TYCO FIRE PRODUCTS LP

Contact Address: ,

Facility Contact: ,

Phone Number:

Reporting Period: 09/01/2024 - 09/30/2024

Form Due Date: 10/21/2024

Permit Number: 0001040

For DNR Use Only

Date Received:
DOC: 550629
FIN: 7245
FID: 438039470
Region: Northeast Region
Permit Drafter: Laura K Rodriguez Alvarez
Reviewer: Laura A Gerold
Office: Green Bay

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	211	373	374	379	376
	Description	Flow Rate	pH (Maximum)	pH (Minimum)	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes
	Units	MGD	su	su	minutes	Number
	Sample Type	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	0				
	2	0				
	3	0.038619	8.1	7.2		
	4	0.042966	8.0	7.1		
	5	0.030138	8.2	7.6		
	6	0.028000	8.2	6.4		
	7	0				
	8	0.018253	8.3	7.5		
	9	0.038317	8.4	7.6		
	10	0.044544	8.3	7.8		
	11	0.034308	8.3	6.7		
	12	0.027255	7.6	6.7		
	13	0.013692	7.6	7.0		
	14	0				
	15	0				
	16	0.035462	8.3	7.4		
	17	0.029360	7.9	6.6		
	18	0.033825	7.8	7.0		
	19	0.023759	8.0	7.1		
	20	0.017584	7.8	6.9		
	21	0				
	22	0				
	23	0.034504	7.9	7.2		
	24	0.033408	8.3	6.8		
	25	0.023910	8.0	6.8		
	26	0.027868	8.2	6.9		
	27	0.019814	8.0	6.7		
	28	0				
	29	0				
	30	0.015933	8.2	7.0		
	31					

Wastewater Discharge Monitoring Report

Facility Name: TYCO FIRE PRODUCTS LP

Reporting Period: 09/01/2024 to 09/30/2024

Permit: 0001040

DOC: 550629

Page 2 of 24

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	211		373		374		379		376	
	Description	Flow Rate		pH (Maximum)		pH (Minimum)		pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes	
	Units	MGD		su		su		minutes		Number	
Summary Values	Monthly Avg	0.020383967		8.066666667		7.047619048					
	Monthly Total										
	Daily Max	0.044544		8.4		7.8					
	Daily Min	0		7.6		6.4					
Limit(s) in Effect	Monthly Avg										
	Monthly Total							446	0	0	0
	Daily Max			9	0						
	Daily Min					6	0				
QA/QC Information	LOD										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	457	651	87	147	315
	Description	Suspended Solids, Total	Oil & Grease (Hexane)	Cadmium, Total Recoverable	Copper, Total Recoverable	Nickel, Total Recoverable
	Units	mg/L	mg/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	3/WEEK	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3	3.6				
	4	2.4				
	5	4.5				
	6					
	7					
	8					
	9	2.6				
	10	<1.9				
	11	2.2				
	12					
	13		<1.3			
	14					
	15					
	16	2.0		<0.49	2.9	7.6
	17	<1.9				
	18	<1.9				
	19					
	20					
	21					
	22					
	23	2.2				
	24	14.0				
	25	6.4				
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	457		651		87		147		315	
	Description	Suspended Solids, Total		Oil & Grease (Hexane)		Cadmium, Total Recoverable		Copper, Total Recoverable		Nickel, Total Recoverable	
	Units	mg/L		mg/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	3.325		0		0		2.9		7.6	
	Monthly Total										
	Daily Max	14		<1.3		<0.49		2.9		7.6	
	Daily Min	<1.9		<1.3		<0.49		2.9		7.6	
Limit(s) in Effect	Monthly Avg	31	0	26	0	260	0	2070	0	2380	0
	Monthly Total										
	Daily Max	60	0	52	0	690	0	3380	0	3980	0
	Daily Min										
QA/QC Information	LOD			1.3		0.49		1.7		1.5	
	LOQ			5		1		5		5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010		999580010		999580010		999580010	

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	553	507	280	280	35
	Description	Zinc, Total Recoverable	Total Toxic Organics	Mercury, Total Recoverable	Mercury, Total Recoverable	Arsenic, Total Recoverable
	Units	ug/L	ug/L	ng/L	mg/day	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16	200				<2.1
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24			1.4	0.1772624	
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	553		507		280		280		35	
	Description	Zinc, Total Recoverable		Total Toxic Organics		Mercury, Total Recoverable		Mercury, Total Recoverable		Arsenic, Total Recoverable	
	Units	ug/L		ug/L		ng/L		mg/day		ug/L	
Summary Values	Monthly Avg	200				1.4		0.1772624		0	
	Monthly Total										
	Daily Max	200				1.4		0.1772624		<2.1	
	Daily Min	200				1.4		0.1772624		<2.1	
Limit(s) in Effect	Monthly Avg	1480	0								
	Monthly Total										
	Daily Max	2610	0	2130							
	Daily Min										
QA/QC Information	LOD	3.6				0.2				2.1	
	LOQ	10				0.5				5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010				999580010	

	Sample Point	101	704	704	704	704
	Description	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent	GWCTS Influent	GWCTS Influent
	Parameter	35	211	35	457	280
	Description	Arsenic, Total Recoverable	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	Units	lbs/day	gpd	ug/L	mg/L	ng/L
	Sample Type	CALCULATED	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	GRAB
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1		0			
	2		0			
	3		10935			
	4		15480	11000	200	
	5		13725			
	6		13010			
	7		14550			
	8		16240			
	9		19710	13000	20	
	10		22650			
	11		16620			
	12		4625			
	13		7935			
	14		16285			
	15		16035			
	16	0.00063	20050	15000	9.2	
	17		19355			
	18		19950			
	19		21470			
	20		0			
	21		0			
	22		0			
	23		0	15000	12	
	24		0			15
	25		0			
	26		9825			
	27		11645			
	28		11075			
	29		11765			
	30		15975			
	31					

	Sample Point	101		704		704		704		704	
	Description	Metal Finishing Effluent		GWCTS Influent		GWCTS Influent		GWCTS Influent		GWCTS Influent	
	Parameter	35		211		35		457		280	
	Description	Arsenic, Total Recoverable		Flow Rate		Arsenic, Total Recoverable		Suspended Solids, Total		Mercury, Total Recoverable	
	Units	lbs/day		gpd		ug/L		mg/L		ng/L	
Summary Values	Monthly Avg	0.00063		10963.666666667		13500		60.3		15	
	Monthly Total										
	Daily Max	0.00063		22650		15000		200		15	
	Daily Min	0.00063		0		11000		9.2		15	
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max										
	Daily Min										
QA/QC Information	LOD					2.1				0.2	
	LOQ					5				0.5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					999580010		999580010		999580010	

	Sample Point	107	004	004	004	004
	Description	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	280	211	373	374	112
	Description	Mercury, Total Recoverable	Flow Rate	pH (Maximum)	pH (Minimum)	Chlorine, Total Residual
	Units	ng/L	MGD	su	su	ug/L
	Sample Type	BLANK	CONTINUOUS	CONTINUOUS	CONTINUOUS	GRAB
	Frequency	MONTHLY	DAILY	DAILY	DAILY	MONTHLY
Sample Results	Day 1		0			
	2		0			
	3		0.046660	7.8	5.7	
	4		0.047360	6.9	6.5	
	5		0.038415	7.6	6.5	
	6		0.035925	6.7	6.2	
	7		0.012945	7.1	5.5	
	8		0.029620	7.1	7.0	
	9		0.053375	7.0	6.8	
	10		0.058435	8.8	6.8	
	11		0.044800	7.1	6.2	
	12		0.025905	7.4	6.2	
	13		0.016750	7.4	6.6	
	14		0.013060	7.1	6.1	
	15		0.012530	7.1	6.7	
	16		0.049705	8.0	6.4	
	17		0.042480	7.1	6.3	
	18		0.044390	6.8	6.3	
	19		0.038485	7.2	5.9	
	20		0			
	21		0			
	22		0			
	23		0			
	24	<0.20	0			
	25		0			<1
	26		0.036115	7.8	6.2	
	27		0.024040	8.0	6.3	
	28		0.007840	6.9	6.4	
	29		0.009210	6.6	6.3	
	30		0.038355	8.1	6.3	
	31					

	Sample Point	107		004		004		004		004	
	Description	Mercury Field Blank Results		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	280		211		373		374		112	
	Description	Mercury, Total Recoverable		Flow Rate		pH (Maximum)		pH (Minimum)		Chlorine, Total Residual	
	Units	ng/L		MGD		su		su		ug/L	
Summary Values	Monthly Avg	0		0.024213333		7.345454545		6.327272727		0	
	Monthly Total										
	Daily Max	<0.2		0.058435		8.8		7		<1	
	Daily Min	<0.2		0		6.6		5.5		<1	
Limit(s) in Effect	Monthly Avg									38	0
	Monthly Total										
	Daily Max					9	0			38	0
	Daily Min							6	0		
QA/QC Information	LOD	0.2								30	
	LOQ	0.5								100	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010									

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	35	35	280	280	87
	Description	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable	Mercury, Total Recoverable	Cadmium, Total Recoverable
	Units	ug/L	lbs/day	ng/L	mg/day	ug/L
	Sample Type	24 HR FLOW PROP	CALCULATED	GRAB	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9	<2.1	0.000924			<0.49
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24			0.50	0.063308	
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	35		35		280		280		87	
	Description	Arsenic, Total Recoverable		Arsenic, Total Recoverable		Mercury, Total Recoverable		Mercury, Total Recoverable		Cadmium, Total Recoverable	
	Units	ug/L		lbs/day		ng/L		mg/day		ug/L	
Summary Values	Monthly Avg	0		0.000924		0.5		0.063308		0	
	Monthly Total										
	Daily Max	<2.1		0.000924		0.5		0.063308		<0.49	
	Daily Min	<2.1		0.000924		0.5		0.063308		<0.49	
Limit(s) in Effect	Monthly Avg									57	0
	Monthly Total										
	Daily Max	194	0	0.22	0	18	0			57	0
	Daily Min										
QA/QC Information	LOD	2.1				0.2				0.49	
	LOQ	5				0.5				1	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010				999580010	

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	87	147	147	315	315
	Description	Cadmium, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Nickel, Total Recoverable	Nickel, Total Recoverable
	Units	lbs/day	ug/L	lbs/day	ug/L	lbs/day
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9	0.0002156	2.3	0.001012	3.4	0.001496
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	87		147		147		315		315	
	Description	Cadmium, Total Recoverable		Copper, Total Recoverable		Copper, Total Recoverable		Nickel, Total Recoverable		Nickel, Total Recoverable	
	Units	lbs/day		ug/L		lbs/day		ug/L		lbs/day	
Summary Values	Monthly Avg	0.0002156		2.3		0.001012		3.4		0.001496	
	Monthly Total										
	Daily Max	0.0002156		2.3		0.001012		3.4		0.001496	
	Daily Min	0.0002156		2.3		0.001012		3.4		0.001496	
Limit(s) in Effect	Monthly Avg			69	0			2000	0		
	Monthly Total										
	Daily Max	0.23	0	69	0	0.28	0	2000	0	8.1	0
	Daily Min										
QA/QC Information	LOD			1.7				1.5			
	LOQ			5				5			
	QC Exceedance	N		N		N		N		N	
	Lab Certification			999580010				999580010			

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	553	553	152	152	231
	Description	Zinc, Total Recoverable	Zinc, Total Recoverable	Cyanide, Amenable	Cyanide, Amenable	Hardness, Total as CaCO3
	Units	ug/L	lbs/day	ug/L	lbs/day	mg/L
	Sample Type	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9	46	0.02024	<5.0	0.0022	290
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	553		553		152		152		231	
	Description	Zinc, Total Recoverable		Zinc, Total Recoverable		Cyanide, Amenable		Cyanide, Amenable		Hardness, Total as CaCO3	
Summary Values	Units	ug/L		lbs/day		ug/L		lbs/day		mg/L	
	Monthly Avg	46		0.02024		0		0.0022		290	
	Monthly Total										
	Daily Max	46		0.02024		<5		0.0022		290	
Limit(s) in Effect	Daily Min	46		0.02024		<5		0.0022		290	
	Monthly Avg	520	0			92	0				
	Monthly Total										
	Daily Max	520	0	2.1	0	92	0	0.37	0		
QA/QC Information	Daily Min										
	LOD	3.6				3.6					
	LOQ	10				5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010				999580010	

	Sample Point	004	004	004	004	108
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	GWCTS Effluent
	Parameter	480	1352	1353	1353	211
	Description	Temperature Maximum	PFOA	PFOS	PFOS	Flow Rate
	Units	degF	ng/L	ng/L	mg/day	MGD
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CONTINUOUS
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	DAILY
Sample Results	Day 1					0
	2					0
	3	86				0.008985
	4	83				0.013130
	5	85				0.011215
	6	73				0.010810
	7	74				0.012930
	8	79				0.013360
	9	79	2.1	0.69	0.13958079	0.015540
	10	82				0.018650
	11	84				0.013530
	12	86				0.004210
	13	82				0.005590
	14	80				0.013060
	15	84				0.012525
	16	87				0.015165
	17	85				0.014950
	18	84				0.015535
	19	84				0.016375
	20					0
	21					0
	22					0
	23					0
	24					0
	25					0
	26	82				0.006148
	27	83				0.007466
	28	79				0.007883
	29	79				0.009258
	30	81				0.009879
	31					

	Sample Point	004		004		004		004		108	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		GWCTS Effluent	
	Parameter	480		1352		1353		1353		211	
	Description	Temperature Maximum		PFOA		PFOS		PFOS		Flow Rate	
Summary Values	Units	degF		ng/L		ng/L		mg/day		MGD	
	Monthly Avg	81.863636364		2.1		0.69		0.13958079		0.0085398	
	Monthly Total										
	Daily Max	87		2.1		0.69		0.13958079		0.01865	
Limit(s) in Effect	Daily Min	73		2.1		0.69		0.13958079		0	
	Monthly Avg					11	0	2.1	0		
	Monthly Total										
	Daily Max					11	0				
QA/QC Information	Daily Min										
	LOD			0.75		0.47					
	LOQ			1.8		1.8					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			998204680		998204680					

	Sample Point	108	108	108	108	108
	Description	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	457	35	35	280	280
	Description	Suspended Solids, Total	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable	Mercury, Total Recoverable
	Units	mg/L	ug/L	lbs/day	ng/L	mg/day
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	WEEKLY	WEEKLY	WEEKLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4	<1.9	2.7	0.000189		
	5					
	6					
	7					
	8					
	9	<1.9	<2.1	0.000231		
	10					
	11					
	12					
	13					
	14					
	15					
	16	<1.9	<2.1	0.000273		
	17					
	18					
	19					
	20					
	21					
	22					
	23	<1.9	2.5			
	24				0.27	
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	108		108		108		108		108	
	Description	GWCTS Effluent		GWCTS Effluent		GWCTS Effluent		GWCTS Effluent		GWCTS Effluent	
	Parameter	457		35		35		280		280	
	Description	Suspended Solids, Total		Arsenic, Total Recoverable		Arsenic, Total Recoverable		Mercury, Total Recoverable		Mercury, Total Recoverable	
	Units	mg/L		ug/L		lbs/day		ng/L		mg/day	
Summary Values	Monthly Avg	0		1.3		0.000231		0.27			
	Monthly Total										
	Daily Max	<1.9		2.7		0.000273		0.27			
	Daily Min	<1.9		<2.1		0.000189		0.27			
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max			500	0	0.17	0	24	0		
	Daily Min										
QA/QC Information	LOD			2.1				0.2			
	LOQ			5				0.5			
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010				999580010			

	Sample Point	108	108
	Description	GWCTS Effluent	GWCTS Effluent
	Parameter	1352	1353
	Description	PFOA	PFOS
	Units	ng/L	ng/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY
Sample Results	Day 1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16	<0.74	<0.47
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Point	108		108	
	Description	GWCTS Effluent		GWCTS Effluent	
	Parameter	1352		1353	
	Description	PFOA		PFOS	
	Units	ng/L		ng/L	
Summary Values	Monthly Avg	0		0	
	Monthly Total				
	Daily Max	<0.74		<0.47	
	Daily Min	<0.74		<0.47	
Limit(s) in Effect	Monthly Avg				
	Monthly Total				
	Daily Max				
	Daily Min				
QA/QC Information	LOD	0.74		0.47	
	LOQ	1.8		1.8	
	QC Exceedance	N		N	
	Lab Certification	998204680		998204680	

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 10/15/2024 9:39:12 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: TYCO FIRE PRODUCTS LP
Contact Address: ,
Facility Contact: ,
Phone Number:
Reporting Period: 10/01/2024 - 10/31/2024
Form Due Date: 11/21/2024
Permit Number: 0001040

Date Received:	
DOC:	558833
FIN:	7245
FID:	438039470
Region:	Northeast Region
Permit Drafter:	Laura K Rodriguez Alvarez
Reviewer:	Laura A Gerold
Office:	Green Bay

Sample Point(s) active?

- No - 703 sample point (Menominee River Intake)
- Yes - 101 sample point (Metal Finishing Effluent)
- Yes - 704 sample point (GWCTS Influent)
- Yes - 107 sample point (Mercury Field Blank Results)
- Yes - 004 sample point (Combined Process WW & GW)
- Yes - 108 sample point (GWCTS Effluent)

Wastewater Discharge Monitoring Long Report

Facility Name: TYCO FIRE PRODUCTS LP

Contact Address: ,

Facility Contact: ,

Phone Number:

Reporting Period: 10/01/2024 - 10/31/2024

Form Due Date: 11/21/2024

Permit Number: 0001040

For DNR Use Only

Date Received:

DOC: 558833

FIN: 7245

FID: 438039470

Region: Northeast Region

Permit Drafter: Laura K Rodriguez Alvarez

Reviewer: Laura A Gerold

Office: Green Bay

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	211	373	374	379	376
	Description	Flow Rate	pH (Maximum)	pH (Minimum)	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes
	Units	MGD	su	su	minutes	Number
	Sample Type	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	0.041123	8.1	7.6		
	2	0.041614	7.9	7.1		
	3	0.023912	8.0	7.2		
	4	0.016071	7.9	6.8		
	5	0				
	6	0				
	7	0.23327	8.6	7.2		
	8	0.037935	7.5	7.1		
	9	0.039728	7.4	7.1		
	10	0.020426	7.8	6.8		
	11	0.026501	7.6	6.8		
	12	0.006323	7.4	6.9		
	13	0				
	14	0.026410	7.6	7.5		
	15	0.033750	7.5	7.2		
	16	0.036767	7.6	7.0		
	17	0.030891	8.0	6.8		
	18	0.016238	8.0	6.8		
	19	0				
	20	0				
	21	0.026792	7.4	6.9		
	22	0.032367	7.4	6.8		
	23	0.030571	7.4	6.9		
	24	0.026761	7.7	7.0		
	25	0.017950	7.7	6.8		
	26	0				
	27	0				
	28	0.017375	8.3	7.2		
	29	0.019869	8.2	7.0		
	30	0.029782	8.2	7.4		
	31	0.030958	7.8	7.2		

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	211		373		374		379		376	
	Description	Flow Rate		pH (Maximum)		pH (Minimum)		pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes	
	Units	MGD		su		su		minutes		Number	
Summary Values	Monthly Avg	0.027851097		7.791666667		7.045833333					
	Monthly Total										
	Daily Max	0.23327		8.6		7.6					
	Daily Min	0		7.4		6.8					
Limit(s) in Effect	Monthly Avg										
	Monthly Total							446	0	0	0
	Daily Max			9	0						
	Daily Min					6	0				
QA/QC Information	LOD										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	457	651	87	147	315
	Description	Suspended Solids, Total	Oil & Grease (Hexane)	Cadmium, Total Recoverable	Copper, Total Recoverable	Nickel, Total Recoverable
	Units	mg/L	mg/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	3/WEEK	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	3.2				
	2	<1.9				
	3	2.8				
	4					
	5					
	6					
	7					
	8	6.4				
	9	<1.9				
	10	2.4		<0.49	2.9	16
	11					
	12					
	13					
	14					
	15	2.8				
	16	<1.9				
	17	<1.9	1.9			
	18					
	19					
	20					
	21					
	22	9.0				
	23	2.0				
	24	2.6				
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	457		651		87		147		315	
	Description	Suspended Solids, Total		Oil & Grease (Hexane)		Cadmium, Total Recoverable		Copper, Total Recoverable		Nickel, Total Recoverable	
	Units	mg/L		mg/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	2.6		1.9		0		2.9		16	
	Monthly Total										
	Daily Max	9		1.9		<0.49		2.9		16	
	Daily Min	<1.9		1.9		<0.49		2.9		16	
Limit(s) in Effect	Monthly Avg	31	0	26	0	260	0	2070	0	2380	0
	Monthly Total										
	Daily Max	60	0	52	0	690	0	3380	0	3980	0
	Daily Min										
QA/QC Information	LOD			1.3		0.49		1.7		1.5	
	LOQ			5		1		5		5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010		999580010		999580010		999580010	

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	553	507	280	280	35
	Description	Zinc, Total Recoverable	Total Toxic Organics	Mercury, Total Recoverable	Mercury, Total Recoverable	Arsenic, Total Recoverable
	Units	ug/L	ug/L	ng/L	mg/day	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10	190				<2.1
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23			2.3	0.2664872	
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	553		507		280		280		35	
	Description	Zinc, Total Recoverable		Total Toxic Organics		Mercury, Total Recoverable		Mercury, Total Recoverable		Arsenic, Total Recoverable	
	Units	ug/L		ug/L		ng/L		mg/day		ug/L	
Summary Values	Monthly Avg	190				2.3		0.2664872		0	
	Monthly Total										
	Daily Max	190				2.3		0.2664872		<2.1	
	Daily Min	190				2.3		0.2664872		<2.1	
Limit(s) in Effect	Monthly Avg	1480	0								
	Monthly Total										
	Daily Max	2610	0	2130							
	Daily Min										
QA/QC Information	LOD	3.6				0.2				2.1	
	LOQ	10				0.5				5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010				999580010	

	Sample Point	101	704	704	704	704
	Description	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent	GWCTS Influent	GWCTS Influent
	Parameter	35	211	35	457	280
	Description	Arsenic, Total Recoverable	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	Units	lbs/day	gpd	ug/L	mg/L	ng/L
	Sample Type	CALCULATED	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	GRAB
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1		0.008705	19000	34	
	2		0.016915			
	3		0.012110			
	4		0.018565			
	5		0.016285			
	6		0.022225			
	7		0.020800			
	8		0.024165	16000	33	
	9		0.008540			
	10	0.000357	0.012155			
	11		0.022945			
	12		0.015405			
	13		0.024025			
	14		0.011850			
	15		0.004780			
	16		0.020245	20000	9.8	
	17		0.019045			
	18		0.019285			
	19		0.018925			
	20		0.013140			
	21		0.020660			
	22		0.027630	9200	9.4	
	23		0.027925			11
	24		0.027160			
	25		0.022765			
	26		0.006785			
	27		0.0			
	28		0.012365			
	29		0.021345			
	30		0.024115			
	31		0.021115			

	Sample Point	101		704		704		704		704	
	Description	Metal Finishing Effluent		GWCTS Influent		GWCTS Influent		GWCTS Influent		GWCTS Influent	
	Parameter	35		211		35		457		280	
	Description	Arsenic, Total Recoverable		Flow Rate		Arsenic, Total Recoverable		Suspended Solids, Total		Mercury, Total Recoverable	
	Units	lbs/day		gpd		ug/L		mg/L		ng/L	
Summary Values	Monthly Avg	0.000357		0.017483065		16050		21.55		11	
	Monthly Total										
	Daily Max	0.000357		0.027925		20000		34		11	
	Daily Min	0.000357		0		9200		9.4		11	
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max										
	Daily Min										
QA/QC Information	LOD					100				0.2	
	LOQ					250				0.5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					999580010		999580010		999580010	

	Sample Point	107	004	004	004	004
	Description	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	280	211	373	374	112
	Description	Mercury, Total Recoverable	Flow Rate	pH (Maximum)	pH (Minimum)	Chlorine, Total Residual
	Units	ng/L	MGD	su	su	ug/L
	Sample Type	BLANK	CONTINUOUS	CONTINUOUS	CONTINUOUS	GRAB
	Frequency	MONTHLY	DAILY	DAILY	DAILY	MONTHLY
Sample Results	Day 1		0.014140	7.2	6.6	
	2		0.049200	7.4	6.7	
	3		0.035755	7.8	6.8	
	4		0.043905	7.3	6.6	
	5		0.010165	6.7	6.3	
	6		0.014125	8.2	6.0	
	7		0.038045	7.7	6.8	
	8		0.055695	7.6	5.9	
	9		0.044980	8.0	6.8	
	10		0.030955	7.7	6.7	
	11		0.041075	7.4	6.5	
	12		0.017380	8.5	6.6	
	13		0.017260	8.0	6.9	
	14		0.032995	8.2	6.6	
	15		0.034050	7.2	6.8	
	16		0.054655	7.5	6.4	
	17		0.051025	8.0	6.7	
	18		0.033570	7.5	6.5	
	19		0.011710	7.4	6.5	
	20		0.012260	7.5	6.0	
	21		0.044100	7.8	6.2	
	22		0.053225	7.5	6.4	
	23	<0.20	0.052935	7.6	6.5	<10
	24		0.049670	7.7	6.6	
	25		0.036310	7.6	6.5	
	26		0.003090	7.5	7.4	
	27		0.0			
	28		0.035275	8.1	5.9	
	29		0.034340	7.7	6.8	
	30		0.050085	8.3	6.8	
	31		0.048620	8.0	6.4	

	Sample Point	107		004		004		004		004	
	Description	Mercury Field Blank Results		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	280		211		373		374		112	
	Description	Mercury, Total Recoverable		Flow Rate		pH (Maximum)		pH (Minimum)		Chlorine, Total Residual	
	Units	ng/L		MGD		su		su		ug/L	
Summary Values	Monthly Avg	0		0.033890161		7.686666667		6.54		0	
	Monthly Total										
	Daily Max	<0.2		0.055695		8.5		7.4		<10	
	Daily Min	<0.2		0		6.7		5.9		<10	
Limit(s) in Effect	Monthly Avg									38	0
	Monthly Total										
	Daily Max					9	0			38	0
	Daily Min							6	4		
QA/QC Information	LOD	0.2								30	
	LOQ	0.5								100	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010									

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	35	35	280	280	87
	Description	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable	Mercury, Total Recoverable	Cadmium, Total Recoverable
	Units	ug/L	lbs/day	ng/L	mg/day	ug/L
	Sample Type	24 HR FLOW PROP	CALCULATED	GRAB	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23	<2.1	0.000924	1.7	0.3410608	<0.49
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	35		35		280		280		87	
	Description	Arsenic, Total Recoverable		Arsenic, Total Recoverable		Mercury, Total Recoverable		Mercury, Total Recoverable		Cadmium, Total Recoverable	
	Units	ug/L		lbs/day		ng/L		mg/day		ug/L	
Summary Values	Monthly Avg	0		0.000924		1.7		0.3410608		0	
	Monthly Total										
	Daily Max	<2.1		0.000924		1.7		0.3410608		<0.49	
	Daily Min	<2.1		0.000924		1.7		0.3410608		<0.49	
Limit(s) in Effect	Monthly Avg									57	0
	Monthly Total										
	Daily Max	194	0	0.22	0	18	0			57	0
	Daily Min										
QA/QC Information	LOD	2.1				0.2				0.49	
	LOQ	5				0.5				1	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010				999580010	

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	87	147	147	315	315
	Description	Cadmium, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Nickel, Total Recoverable	Nickel, Total Recoverable
	Units	lbs/day	ug/L	lbs/day	ug/L	lbs/day
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23	0.0002156	2.7	0.001188	3.2	0.001408
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	87		147		147		315		315	
	Description	Cadmium, Total Recoverable		Copper, Total Recoverable		Copper, Total Recoverable		Nickel, Total Recoverable		Nickel, Total Recoverable	
	Units	lbs/day		ug/L		lbs/day		ug/L		lbs/day	
Summary Values	Monthly Avg	0.0002156		2.7		0.001188		3.2		0.001408	
	Monthly Total										
	Daily Max	0.0002156		2.7		0.001188		3.2		0.001408	
	Daily Min	0.0002156		2.7		0.001188		3.2		0.001408	
Limit(s) in Effect	Monthly Avg			69	0			2000	0		
	Monthly Total										
	Daily Max	0.23	0	69	0	0.28	0	2000	0	8.1	0
	Daily Min										
QA/QC Information	LOD			1.7				1.5			
	LOQ			5				5			
	QC Exceedance	N		N		N		N		N	
	Lab Certification			999580010				999580010			

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	553	553	152	152	231
	Description	Zinc, Total Recoverable	Zinc, Total Recoverable	Cyanide, Amenable	Cyanide, Amenable	Hardness, Total as CaCO3
	Units	ug/L	lbs/day	ug/L	lbs/day	mg/L
	Sample Type	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23	50	0.022	<5.0	0.0022	200
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	553		553		152		152		231	
	Description	Zinc, Total Recoverable		Zinc, Total Recoverable		Cyanide, Amenable		Cyanide, Amenable		Hardness, Total as CaCO3	
Summary Values	Units	ug/L		lbs/day		ug/L		lbs/day		mg/L	
	Monthly Avg	50		0.022		0		0.0022		200	
	Monthly Total										
	Daily Max	50		0.022		<5		0.0022		200	
Limit(s) in Effect	Daily Min	50		0.022		<5		0.0022		200	
	Monthly Avg	520	0			92	0				
	Monthly Total										
	Daily Max	520	0	2.1	0	92	0	0.37	0		
QA/QC Information	Daily Min										
	LOD	3.6				3.6					
	LOQ	10				5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010				999580010	

	Sample Point	004	004	004	004	108
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	GWCTS Effluent
	Parameter	480	1352	1353	1353	211
	Description	Temperature Maximum	PFOA	PFOS	PFOS	Flow Rate
	Units	degF	ng/L	ng/L	mg/day	MGD
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CONTINUOUS
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	DAILY
Sample Results	Day 1	83				0.006720
	2	73				0.010700
	3	80				0.007655
	4	73				0.015115
	5	75				0.010155
	6	76				0.014110
	7	77				0.013120
	8	75				0.015995
	9	75				0.007060
	10	79				0.007950
	11	79				0.015815
	12	75				0.009845
	13	70				0.017240
	14	71				0.006885
	15	70				0.002445
	16	77				0.013335
	17	79				0.016370
	18	77				0.016305
	19	77				0.011710
	20	79				0.012245
	21	81				0.011510
	22	79				0.018220
	23	78	2.4	<0.46	0.09228704	0.019145
	24	78				0.020090
	25	78				0.019345
	26	73				0.003090
	27					0.0
	28	76				0.013150
	29	80				0.011690
	30	81				0.017135
	31	78				0.014770

	Sample Point	004		004		004		004		108	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		GWCTS Effluent	
	Parameter	480		1352		1353		1353		211	
	Description	Temperature Maximum		PFOA		PFOS		PFOS		Flow Rate	
	Units	degF		ng/L		ng/L		mg/day		MGD	
Summary Values	Monthly Avg	76.733333333		2.4		0		0.09228704		0.012223226	
	Monthly Total										
	Daily Max	83		2.4		<0.46		0.09228704		0.02009	
	Daily Min	70		2.4		<0.46		0.09228704		0	
Limit(s) in Effect	Monthly Avg					11	0	2.1	0		
	Monthly Total										
	Daily Max					11	0				
	Daily Min										
QA/QC Information	LOD			0.73		0.46					
	LOQ			1.7		1.7					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			998204680		998204680					

	Sample Point	108	108	108	108	108
	Description	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	457	35	35	280	280
	Description	Suspended Solids, Total	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable	Mercury, Total Recoverable
	Units	mg/L	ug/L	lbs/day	ng/L	mg/day
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	WEEKLY	WEEKLY	WEEKLY	MONTHLY	MONTHLY
Sample Results	Day 1	<1.9	210	0.0126		
	2					
	3					
	4					
	5					
	6					
	7					
	8	<1.9	160	0.0208		
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16	<1.9	4.7	0.000517		
	17					
	18					
	19					
	20					
	21					
	22	<1.9	<2.1	0.000315		
	23				<0.20	0.014512
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	108		108		108		108		108	
	Description	GWCTS Effluent		GWCTS Effluent		GWCTS Effluent		GWCTS Effluent		GWCTS Effluent	
	Parameter	457		35		35		280		280	
	Description	Suspended Solids, Total		Arsenic, Total Recoverable		Arsenic, Total Recoverable		Mercury, Total Recoverable		Mercury, Total Recoverable	
	Units	mg/L		ug/L		lbs/day		ng/L		mg/day	
Summary Values	Monthly Avg	0		93.675		0.008558		0		0.014512	
	Monthly Total										
	Daily Max	<1.9		210		0.0208		<0.2		0.014512	
	Daily Min	<1.9		<2.1		0.000315		<0.2		0.014512	
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max			500	0	0.17	0	24	0		
	Daily Min										
QA/QC Information	LOD			2.1				0.2			
	LOQ			5				0.5			
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010				999580010			

	Sample Point	108	108
	Description	GWCTS Effluent	GWCTS Effluent
	Parameter	1352	1353
	Description	PFOA	PFOS
	Units	ng/L	ng/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY
Sample Results	Day 1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16	7.3	0.65
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Point	108		108	
	Description	GWCTS Effluent		GWCTS Effluent	
	Parameter	1352		1353	
	Description	PFOA		PFOS	
	Units	ng/L		ng/L	
Summary Values	Monthly Avg	7.3		0.65	
	Monthly Total				
	Daily Max	7.3		0.65	
	Daily Min	7.3		0.65	
Limit(s) in Effect	Monthly Avg				
	Monthly Total				
	Daily Max				
	Daily Min				
QA/QC Information	LOD	0.75		0.48	
	LOQ	1.8		1.8	
	QC Exceedance	N		N	
	Lab Certification	998204680		998204680	

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

The four days that the pH went to 6. or below it went into recycle so, nothing went out.

Exceedence Comments

The low pH days went into recycle so nothing went out

Submitted by Anne Fleury(afleury16) on 11/18/2024 9:58:04 AM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: TYCO FIRE PRODUCTS LP
Contact Address: ,
Facility Contact: ,
Phone Number:
Reporting Period: 11/01/2024 - 11/30/2024
Form Due Date: 12/21/2024
Permit Number: 0001040

Date Received:	
DOC:	558834
FIN:	7245
FID:	438039470
Region:	Northeast Region
Permit Drafter:	Laura K Rodriguez Alvarez
Reviewer:	Laura A Gerold
Office:	Green Bay

Sample Point(s) active?

- No - 703 sample point (Menominee River Intake)
- Yes - 101 sample point (Metal Finishing Effluent)
- Yes - 704 sample point (GWCTS Influent)
- Yes - 107 sample point (Mercury Field Blank Results)
- Yes - 004 sample point (Combined Process WW & GW)
- Yes - 108 sample point (GWCTS Effluent)

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: TYCO FIRE PRODUCTS LP

Contact Address: ☐☐
☐☐ , ☐☐Facility Contact: , ☐☐Phone Number: ☐☐

Reporting Period: 11/01/2024 - 11/30/2024

Form Due Date: 12/21/2024

Permit Number: 0001040

Date Received:

DOC: 558834

FIN: 7245

FID: 438039470

Region: Northeast Region

Permit Drafter: Laura K Rodriguez Alvarez

Reviewer: Laura A Gerold

Office: Green Bay

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	211	373	374	379	376
	Description	Flow Rate	pH (Maximum)	pH (Minimum)	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes
	Units	MGD	su	su	minutes	Number
	Sample Type	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	0.013206	8.3	7.3		
	2	0.0				
	3	0.0				
	4	0.030052	8.0	7.0		
	5	0.033735	7.7	7.3		
	6	0.030559	7.7	7.0		
	7	0.034090	7.5	6.8		
	8	0.027251	7.5	6.5		
	9	0.0				
	10	0.0				
	11	0.014301	8.2	6.8		
	12	0.041306	7.7	7.3		
	13	0.031502	7.8	7.0		
	14	0.025689	7.8	7.0		
	15	0.021549	7.6	6.8		
	16	0.014407	8.6	7.0		
	17	0.0				
	18	0.025723	7.4	7.0		
	19	0.027661	7.5	6.6		
	20	0.023035	7.2	6.8		
	21	0.029170	7.4	7.0		
	22	0.021586	8.0	6.9		
	23	0.0				
	24	0.0				
	25	0.027952	7.5	6.7		
	26	0.023544	7.2	7.0		
	27	0.010118	7.4	7.0		
	28	0.0				
	29	0.0				
	30	0.0				
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	211		373		374		379		376	
	Description	Flow Rate		pH (Maximum)		pH (Minimum)		pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes	
	Units	MGD		su		su		minutes		Number	
Summary Values	Monthly Avg	0.0168812		7.7		6.94					
	Monthly Total										
	Daily Max	0.041306		8.6		7.3					
	Daily Min	0		7.2		6.5					
Limit(s) in Effect	Monthly Avg										
	Monthly Total							446	0	0	0
	Daily Max			9	0						
	Daily Min					6	0				
QA/QC Information	LOD										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	457	651	87	147	315
	Description	Suspended Solids, Total	Oil & Grease (Hexane)	Cadmium, Total Recoverable	Copper, Total Recoverable	Nickel, Total Recoverable
	Units	mg/L	mg/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	3/WEEK	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4	11.0		<0.49	8.0	15.0
	5	<1.9				
	6	<1.9				
	7		<1.3			
	8					
	9					
	10					
	11	4.4				
	12	<1.9				
	13	<1.9				
	14					
	15					
	16					
	17					
	18	<1.9				
	19	<1.9				
	20	<1.9				
	21					
	22					
	23					
	24					
	25	2.4				
	26	<1.9				
	27	<1.9				
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	457		651		87		147		315	
	Description	Suspended Solids, Total		Oil & Grease (Hexane)		Cadmium, Total Recoverable		Copper, Total Recoverable		Nickel, Total Recoverable	
	Units	mg/L		mg/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	1.483333333		0		0		8		15	
	Monthly Total										
	Daily Max	11		<1.3		<0.49		8		15	
	Daily Min	<1.9		<1.3		<0.49		8		15	
Limit(s) in Effect	Monthly Avg	31	0	26	0	260	0	2070	0	2380	0
	Monthly Total										
	Daily Max	60	0	52	0	690	0	3380	0	3980	0
	Daily Min										
QA/QC Information	LOD			1.3		0.49		1.7		1.5	
	LOQ			5		1		5		5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010		999580010		999580010		999580010	

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	553	507	280	280	35
	Description	Zinc, Total Recoverable	Total Toxic Organics	Mercury, Total Recoverable	Mercury, Total Recoverable	Arsenic, Total Recoverable
	Units	ug/L	ug/L	ng/L	mg/day	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4	300				<2.1
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25			0.99	0.10487862	
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent	
	Parameter	553		507		280		280		35	
	Description	Zinc, Total Recoverable		Total Toxic Organics		Mercury, Total Recoverable		Mercury, Total Recoverable		Arsenic, Total Recoverable	
	Units	ug/L		ug/L		ng/L		mg/day		ug/L	
Summary Values	Monthly Avg	300				0.99		0.10487862		0	
	Monthly Total										
	Daily Max	300				0.99		0.10487862		<2.1	
	Daily Min	300				0.99		0.10487862		<2.1	
Limit(s) in Effect	Monthly Avg	1480	0								
	Monthly Total										
	Daily Max	2610	0	2130							
	Daily Min										
QA/QC Information	LOD	3.6				0.2				2.1	
	LOQ	10				0.5				5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010				999580010	

	Sample Point	101	704	704	704	704
	Description	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent	GWCTS Influent	GWCTS Influent
	Parameter	35	211	35	457	280
	Description	Arsenic, Total Recoverable	Flow Rate	Arsenic, Total Recoverable	Suspended Solids, Total	Mercury, Total Recoverable
	Units	lbs/day	gpd	ug/L	mg/L	ng/L
	Sample Type	CALCULATED	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	GRAB
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	MONTHLY
Sample Results	Day 1		24945			
	2		18245			
	3		28245			
	4	0.000525	26370	21000	11	
	5		19655			
	6		23555			
	7		24420			
	8		9665			
	9		21180			
	10		20505			
	11		24225			
	12		25035	1600	12	
	13		24320			
	14		23465			
	15		18325			
	16		20135			
	17		24690			
	18		23445			
	19		25340	17000	14	
	20		16805			
	21		26115			
	22		9620			
	23		2535			
	24		13600			
	25		27225	20000	8.2	7.3
	26		20660			
	27		21630			
	28		21420			
	29		19185			
	30		20265			
	31					

	Sample Point	101		704		704		704		704	
	Description	Metal Finishing Effluent		GWCTS Influent		GWCTS Influent		GWCTS Influent		GWCTS Influent	
	Parameter	35		211		35		457		280	
	Description	Arsenic, Total Recoverable		Flow Rate		Arsenic, Total Recoverable		Suspended Solids, Total		Mercury, Total Recoverable	
	Units	lbs/day		gpd		ug/L		mg/L		ng/L	
Summary Values	Monthly Avg	0.000525		20827.5		14900		11.3		7.3	
	Monthly Total										
	Daily Max	0.000525		28245		21000		14		7.3	
	Daily Min	0.000525		2535		1600		8.2		7.3	
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max										
	Daily Min										
QA/QC Information	LOD					100				0.2	
	LOQ					250				0.5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					999580010		999580010		999580010	

	Sample Point	107	004	004	004	004
	Description	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	280	211	373	374	112
	Description	Mercury, Total Recoverable	Flow Rate	pH (Maximum)	pH (Minimum)	Chlorine, Total Residual
	Units	ng/L	MGD	su	su	ug/L
	Sample Type	BLANK	CONTINUOUS	CONTINUOUS	CONTINUOUS	GRAB
	Frequency	MONTHLY	DAILY	DAILY	DAILY	MONTHLY
Sample Results	Day 1		0.032215	8.3	6.5	
	2		0.014470	7.5	6.7	
	3		0.049645	7.6	6.4	
	4		0.056240	7.6	6.3	
	5		0.051260	7.6	6.1	
	6		0.053895	7.7	6.5	
	7		0.046270	7.7	6.5	
	8		0.006705	7.6	6.1	
	9		0.015790	7.7	6.9	
	10		0.032485	7.9	5.8	
	11		0.066085	7.8	6.7	
	12		0.052540	7.0	6.7	
	13		0.045745	8.0	6.1	
	14		0.042395	8.2	6.8	
	15		0.030220	8.4	6.6	
	16		0.013955	7.2	6.6	
	17		0.045530	6.8	6.5	
	18		0.049105	6.9	6.4	
	19		0.046740	6.8	6.1	
	20		0.043035	7.3	6.2	
	21		0.049150	7.0	6.3	
	22		0.008700	6.5	6.0	
	23		0.001975	6.7	5.6	
	24		0.046020	6.8	6.2	
	25	0.20	0.047795	6.9	6.1	
	26		0.026250	6.5	6.2	<10
	27		0.015365	6.8	6.0	
	28		0.016230	6.6	6.2	
	29		0.013560	6.9	6.0	
	30		0.014460	6.9	6.3	
	31					

	Sample Point	107		004		004		004		004	
	Description	Mercury Field Blank Results		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	280		211		373		374		112	
	Description	Mercury, Total Recoverable		Flow Rate		pH (Maximum)		pH (Minimum)		Chlorine, Total Residual	
	Units	ng/L		MGD		su		su		ug/L	
Summary Values	Monthly Avg	0.2		0.034461		7.306666667		6.313333333		0	
	Monthly Total										
	Daily Max	0.2		0.066085		8.4		6.9		<10	
	Daily Min	0.2		0.001975		6.5		5.6		<10	
Limit(s) in Effect	Monthly Avg									38	0
	Monthly Total										
	Daily Max					9	0			38	0
	Daily Min							6	5		
QA/QC Information	LOD	0.2								30	
	LOQ	0.5								100	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010									

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	35	35	280	280	87
	Description	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable	Mercury, Total Recoverable	Cadmium, Total Recoverable
	Units	ug/L	lbs/day	ng/L	mg/day	ug/L
	Sample Type	24 HR FLOW PROP	CALCULATED	GRAB	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12	<2.1	0.000924			<0.49
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25			0.56	0.01016008	
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	35		35		280		280		87	
	Description	Arsenic, Total Recoverable		Arsenic, Total Recoverable		Mercury, Total Recoverable		Mercury, Total Recoverable		Cadmium, Total Recoverable	
	Units	ug/L		lbs/day		ng/L		mg/day		ug/L	
Summary Values	Monthly Avg	0		0.000924		0.56		0.01016008		0	
	Monthly Total										
	Daily Max	<2.1		0.000924		0.56		0.01016008		<0.49	
	Daily Min	<2.1		0.000924		0.56		0.01016008		<0.49	
Limit(s) in Effect	Monthly Avg									57	0
	Monthly Total										
	Daily Max	194	0	0.22	0	18	0			57	0
	Daily Min										
QA/QC Information	LOD	2.1				0.2				0.49	
	LOQ	5				0.5				1	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010				999580010	

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	87	147	147	315	315
	Description	Cadmium, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable	Nickel, Total Recoverable	Nickel, Total Recoverable
	Units	lbs/day	ug/L	lbs/day	ug/L	lbs/day
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12	0.0002156	3.8	0.001672	5.8	0.002552
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	87		147		147		315		315	
	Description	Cadmium, Total Recoverable		Copper, Total Recoverable		Copper, Total Recoverable		Nickel, Total Recoverable		Nickel, Total Recoverable	
	Units	lbs/day		ug/L		lbs/day		ug/L		lbs/day	
Summary Values	Monthly Avg	0.0002156		3.8		0.001672		5.8		0.002552	
	Monthly Total										
	Daily Max	0.0002156		3.8		0.001672		5.8		0.002552	
	Daily Min	0.0002156		3.8		0.001672		5.8		0.002552	
Limit(s) in Effect	Monthly Avg			69	0			2000	0		
	Monthly Total										
	Daily Max	0.23	0	69	0	0.28	0	2000	0	8.1	0
	Daily Min										
QA/QC Information	LOD			1.7				1.5			
	LOQ			5				5			
	QC Exceedance	N		N		N		N		N	
	Lab Certification			999580010				999580010			

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	553	553	152	152	231
	Description	Zinc, Total Recoverable	Zinc, Total Recoverable	Cyanide, Amenable	Cyanide, Amenable	Hardness, Total as CaCO3
	Units	ug/L	lbs/day	ug/L	lbs/day	mg/L
	Sample Type	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12	78	0.03432	<5.0	0.0022	
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	553		553		152		152		231	
	Description	Zinc, Total Recoverable		Zinc, Total Recoverable		Cyanide, Amenable		Cyanide, Amenable		Hardness, Total as CaCO3	
	Units	ug/L		lbs/day		ug/L		lbs/day		mg/L	
Summary Values	Monthly Avg	78		0.03432		0		0.0022			
	Monthly Total										
	Daily Max	78		0.03432		<5		0.0022			
	Daily Min	78		0.03432		<5		0.0022			
Limit(s) in Effect	Monthly Avg	520	0			92	0				
	Monthly Total										
	Daily Max	520	0	2.1	0	92	0	0.37	0		
	Daily Min										
QA/QC Information	LOD	3.6				3.6					
	LOQ	10				5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010				999580010					

	Sample Point	004	004	004	004	108
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	GWCTS Effluent
	Parameter	480	1352	1353	1353	211
	Description	Temperature Maximum	PFOA	PFOS	PFOS	Flow Rate
	Units	degF	ng/L	ng/L	mg/day	MGD
	Sample Type	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	CONTINUOUS
	Frequency	WEEKLY	MONTHLY	MONTHLY	MONTHLY	DAILY
Sample Results	Day 1	76				0.018380
	2	74				0.014465
	3	76				0.016615
	4	77				0.018210
	5	75				0.014995
	6	74				0.016920
	7	77				0.018470
	8	76				0.006750
	9	77				0.015785
	10	77				0.014465
	11	74				0.017695
	12	70	1.7	0.87	0.17324049	0.018035
	13	76				0.016375
	14	74				0.017625
	15	72				0.012850
	16	72				0.013825
	17	70				0.016585
	18	74				0.016415
	19	72				0.017820
	20	72				0.013000
	21	71				0.018330
	22	68				0.008685
	23	66				0.000450
	24	67				0.011530
	25	66				0.019110
	26	62				0.014825
	27	69				0.015310
	28	68				0.016185
	29	68				0.013525
	30	68				0.014425
	31					

	Sample Point	004		004		004		004		108	
	Description	Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW		GWCTS Effluent	
	Parameter	480		1352		1353		1353		211	
	Description	Temperature Maximum		PFOA		PFOS		PFOS		Flow Rate	
Summary Values	Units	degF		ng/L		ng/L		mg/day		MGD	
	Monthly Avg	71.933333333		1.7		0.87		0.17324049		0.014921833	
	Monthly Total										
	Daily Max	77		1.7		0.87		0.17324049		0.01911	
Limit(s) in Effect	Daily Min	62		1.7		0.87		0.17324049		0.00045	
	Monthly Avg					11	0	2.1	0		
	Monthly Total										
	Daily Max					11	0				
QA/QC Information	Daily Min										
	LOD			0.4		0.4					
	LOQ			1.6		1.6					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			998204680		998204680					

	Sample Point	108	108	108	108	108
	Description	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	457	35	35	280	280
	Description	Suspended Solids, Total	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable	Mercury, Total Recoverable
	Units	mg/L	ug/L	lbs/day	ng/L	mg/day
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	WEEKLY	WEEKLY	WEEKLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4	<1.9	<2.1	0.000315		
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12	<1.9	<2.1	0.000315		
	13					
	14					
	15					
	16					
	17					
	18					
	19	<1.9	<2.1	0.000315		
	20					
	21					
	22					
	23					
	24					
	25	<1.9	<2.1	0.000336	<0.20	0.0144854
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	108		108		108		108		108	
	Description	GWCTS Effluent		GWCTS Effluent		GWCTS Effluent		GWCTS Effluent		GWCTS Effluent	
	Parameter	457		35		35		280		280	
	Description	Suspended Solids, Total		Arsenic, Total Recoverable		Arsenic, Total Recoverable		Mercury, Total Recoverable		Mercury, Total Recoverable	
	Units	mg/L		ug/L		lbs/day		ng/L		mg/day	
Summary Values	Monthly Avg	0		0		0.00032025		0		0.0144854	
	Monthly Total										
	Daily Max	<1.9		<2.1		0.000336		<0.2		0.0144854	
	Daily Min	<1.9		<2.1		0.000315		<0.2		0.0144854	
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max			500	0	0.17	0	24	0		
	Daily Min										
QA/QC Information	LOD			2.1				0.2			
	LOQ			5				0.5			
	QC Exceedance	N		N		N		N		N	
	Lab Certification	999580010		999580010				999580010			

	Sample Point	108	108
	Description	GWCTS Effluent	GWCTS Effluent
	Parameter	1352	1353
	Description	PFOA	PFOS
	Units	ng/L	ng/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY
Sample Results	Day 1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12	0.94	<0.41
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Point	108		108	
	Description	GWCTS Effluent		GWCTS Effluent	
	Parameter	1352		1353	
	Description	PFOA		PFOS	
	Units	ng/L		ng/L	
Summary Values	Monthly Avg	0.94		0	
	Monthly Total				
	Daily Max	0.94		<0.41	
	Daily Min	0.94		<0.41	
Limit(s) in Effect	Monthly Avg				
	Monthly Total				
	Daily Max				
	Daily Min				
QA/QC Information	LOD	0.41		0.41	
	LOQ	1.6		1.6	
	QC Exceedance	N		N	
	Lab Certification	998204680		998204680	

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

The 5 days that the pH was at 6.0 or lower goes into recycle so nothing went out to the river.

Exceedence Comments

The 5 days that the pH was at 6 or below went into recycle and did not go out to the river.

Submitted by Anne Fleury(afleury16) on 12/17/2024 12:37:58 PM

Attachment 3

2024 PDP Groundwater Elevation Monitoring

Attachment 3. 2024 Pump Down Program Groundwater Elevation Monitoring

Tyco Fire Products LP, Marinette, Wisconsin

Target Elevation	577.9
------------------	-------

Well ID	Mean Conductivity (mS/cm-measured) Last 5 Years	August 14, 2024		September 10, 2024		October 8, 2024		November 11 - 13, 2024		December 10, 2024	
		DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)
Wells Inside Former Salt Vault											
MW001M	6.394	9.52	577.62	10.05	577.09	10.25	576.89	10.29	576.85	10.33	576.81
MW001S	6.023	9.71	577.50	10.28	576.93	10.51	576.70	10.51	576.70	10.59	576.62
MW002M-R	14.800	12.79	577.62	13.34	577.06	13.59	576.81	13.70	576.70	13.63	576.77
MW002S-R	3.467	12.74	577.54	13.28	577.00	13.48	576.80	13.68	576.60	13.57	576.71
MW031M	8.950	10.26	577.70	10.80	577.16	11.00	576.96	10.94	577.02	11.12	576.84
MW031S	1.014	11.50	577.37	11.80	577.07	12.12	576.75	12.07	576.80	12.21	576.66
MW113S	0.791	12.67	577.59	13.21	577.05	13.44	576.82	13.44	576.82	13.50	576.76
MW113M	0.742	11.06	579.17	11.55	578.68	11.89	578.34	11.68	578.55	11.78	578.45
MW115P	1.909	11.17	577.90	11.62	577.45	11.86	577.21	12.07	577.00	12.08	576.99
MW115S	1.335	11.50	577.45	12.04	576.91	12.28	576.67	12.33	576.62	12.32	576.63
MW116P	4.295	11.76	578.09	11.94	577.91	12.22	577.63	12.42	577.43	12.59	577.26
MW116S	1.716	12.33	577.50	12.93	576.90	13.16	576.67	11.15	578.68	13.17	576.66
MW119D	6.257	8.63	580.09	8.74	579.98	8.90	579.82	9.28	579.44	9.59	579.13
EW-3	No Data	NM	-	NM	-	NM	-	NM	-	NM	-
EW-10	No Data	9.55	577.50	10.16	576.89	10.31	576.74	10.23	576.82	10.34	576.71
EW-11	3.066	8.50	578.18	9.05	577.63	9.32	577.36	9.17	577.51	9.21	577.47
EW-13	5.580	7.63	577.48	8.12	576.99	8.31	576.80	8.23	576.88	8.44	576.67
EW-14	5.011	8.56	577.52	9.12	576.95	9.32	576.75	9.20	576.87	9.39	576.68
Wells Inside Former 8th Street Slip											
MW034M	0.53	12.17	576.05	12.17	576.05	12.12	576.10	12.39	575.83	11.99	576.23
MW034S	1.991	12.34	575.84	12.37	575.81	12.48	575.70	12.61	575.57	12.29	575.89
MW036M	30.975	12.67	575.83	12.90	575.59	13.09	575.40	13.25	575.24	12.87	575.62
MW036S	0.921	12.18	576.07	12.39	575.86	12.59	575.66	12.78	575.47	12.41	575.84
MW038M	0.124	10.06	576.08	10.38	575.76	10.58	575.56	10.74	575.40	10.26	575.88
MW038S	1.213	11.79	576.03	12.12	575.70	12.34	575.48	12.53	575.29	12.01	575.81
MW120D	11.349	8.29	580.48	8.52	580.25	8.91	579.86	9.13	579.64	9.57	579.19
MW120M	28.409	12.79	576.04	12.91	575.91	13.12	575.70	13.20	575.62	13.08	575.74
MW120S	2.867	11.99	576.53	12.10	576.42	12.40	576.12	12.35	576.17	12.47	576.05
EW-2	No Data	NM	-	NM	-	NM	-	NM	-	NM	-
EW-8	No Data	11.34	572.75	11.86	572.23	12.60	571.49	13.51	570.58	12.22	571.87
EW-9	4.234	11.43	571.92	10.34	573.01	7.69	575.67	9.09	574.27	7.48	575.88
Wells Outside Pump Down Program Area											
MW004M	No Data	NM	-	NM	-	NM	-	-	-	NM	-
MW004S	1.813	5.56	583.18	6.14	582.60	6.81	581.93	5.74	583.00	5.75	582.99
MW032M	7.113	6.60	581.71	6.20	582.11	7.57	580.74	6.90	581.41	7.04	581.27
MW032S	2.508	5.77	582.72	6.97	581.51	6.82	581.66	5.54	582.95	5.76	582.73
MW033M	10.388	4.43	582.96	4.97	582.41	5.59	581.79	4.56	582.83	4.57	582.82
MW033S	1.087	4.30	583.02	7.86	579.45	5.47	581.85	4.37	582.95	4.38	582.94
MW039M	No Data	NM	-	NM	-	NM	-	NM	-	NM	-
MW039S	1.786	2.99	583.21	3.56	582.64	4.22	581.98	3.14	583.06	3.15	583.05
MW035M	No Data	NM	-	NM	-	NM	-	NM	-	NM	-
MW035S	1.692	8.11	579.54	8.86	578.79	9.69	577.96	7.11	580.54	6.98	580.67
MW037M	No Data	NM	-	NM	-	NM	-	NM	-	NM	-
MW037S	1.264	7.59	579.47	8.38	578.68	7.16	579.90	6.37	580.70	6.32	580.75
SG4	No Data	7.22	580.23	7.40	580.05	8.10	579.35	7.50	579.95	NM	-
Target Elevation Calc SV			577.71		577.18		576.94		577.13		576.89
Target Elevation Calc 8SS			576.06		575.89		575.72		575.57		575.88
Target Elevation (NAVD88)			577.90		577.90		577.90		577.90		577.90
SV Variance			-0.19		-0.72		-0.96		-0.77		-1.01
8SS Variance			-1.84		-2.01		-2.18		-2.33		-2.02

Notes:

Measurements were collected from top of casing (TOC). All depth measurements are in feet.

Elevations are reported in feet relative to the North American Vertical Datum 1988 (NAVD88)

Shaded/Bold = Well part of Target Elevation calculation

- = Information not applicable or not collected

Area Definitions - SV - former Salt Vault, 8SS - former 8th Street Slip

Corrected groundwater elevation is calculated using the 2024 calculated mean conductivity value (last 5 years of data)

ID = identification; DTW = depth to water

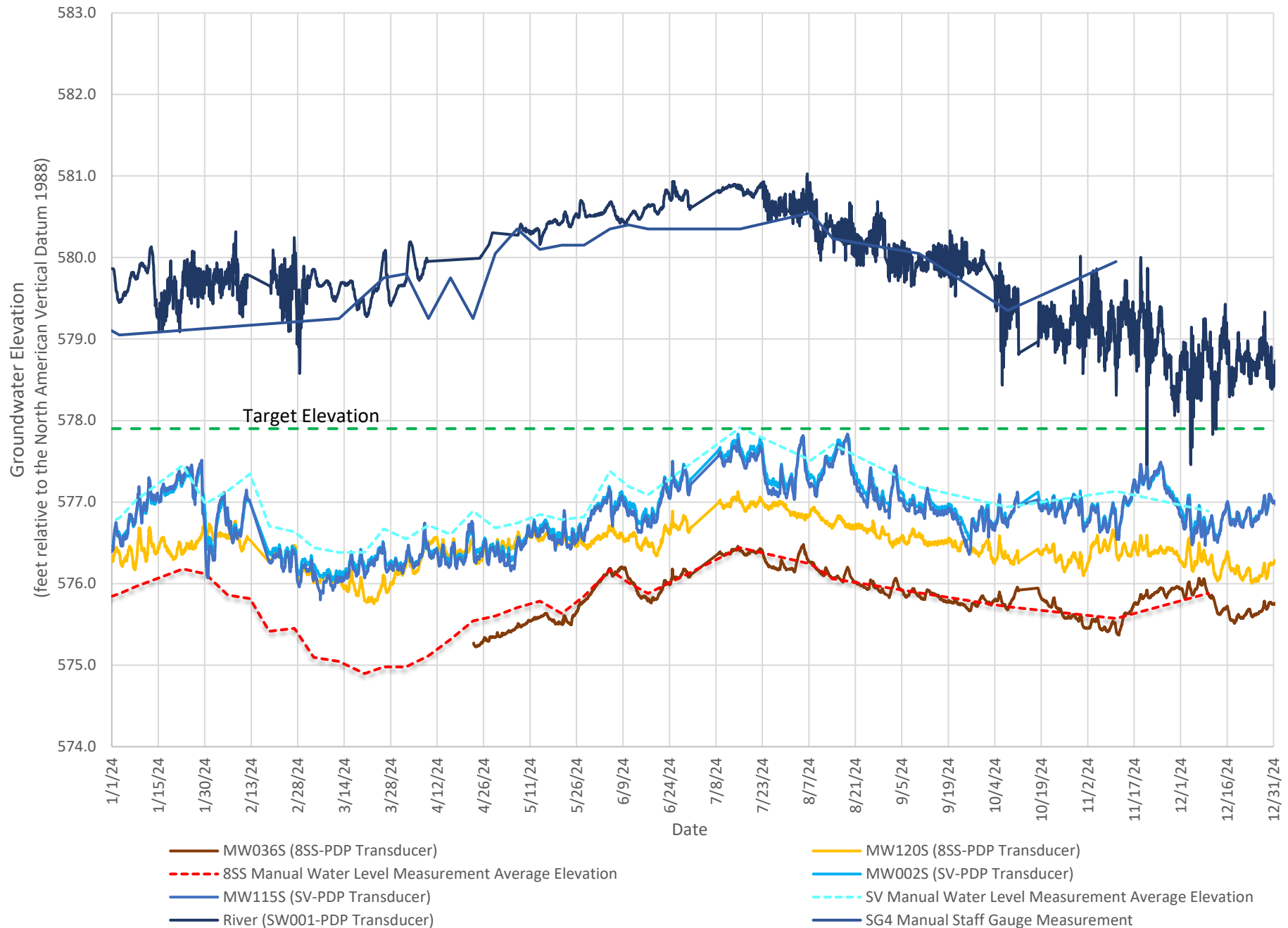
NM = Not Measured; MW = Monitoring Well

Attachment 4

2024 PDP System Hydrographs

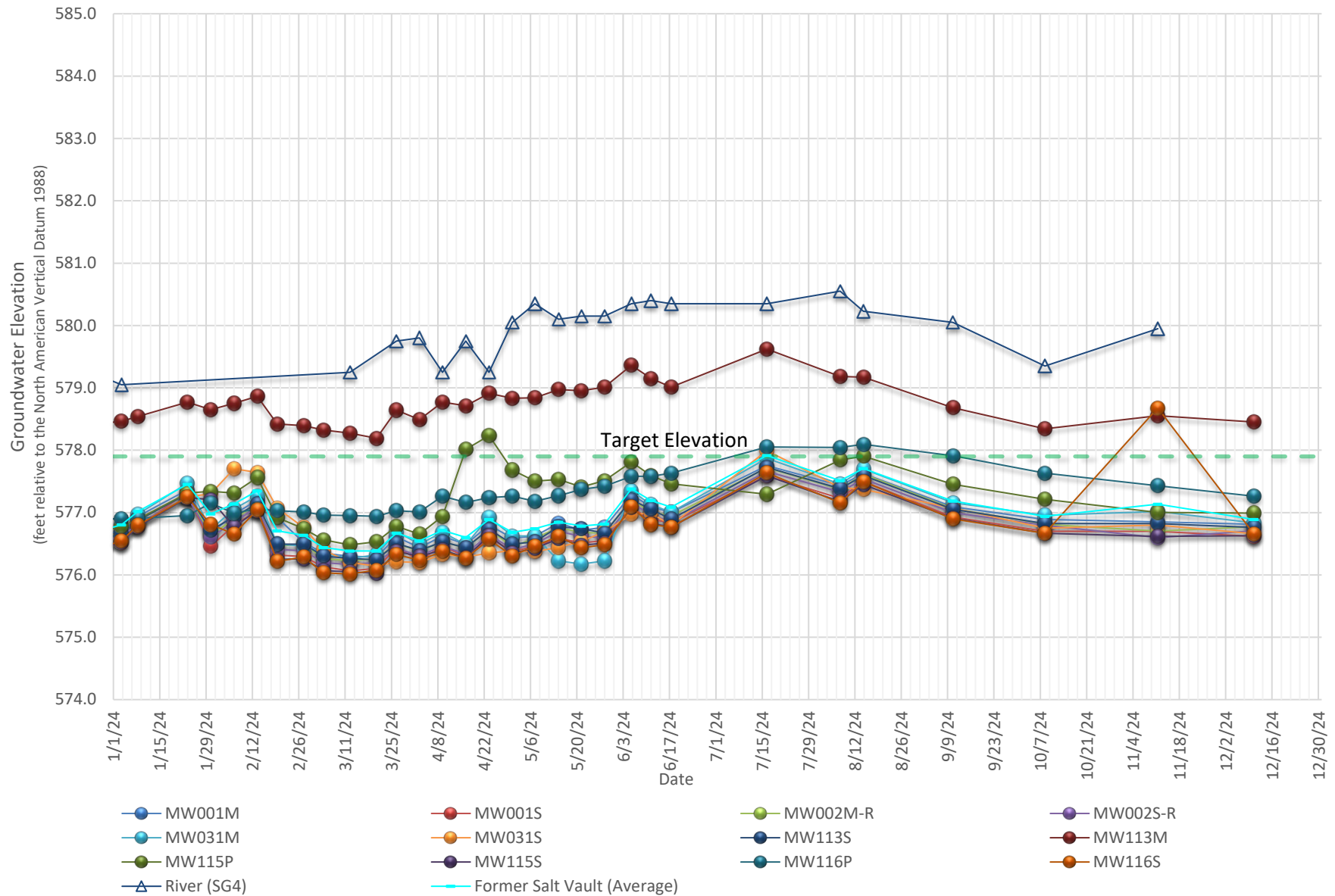
January through December 2024 Water Levels

Pump Down Program System Hydrographs



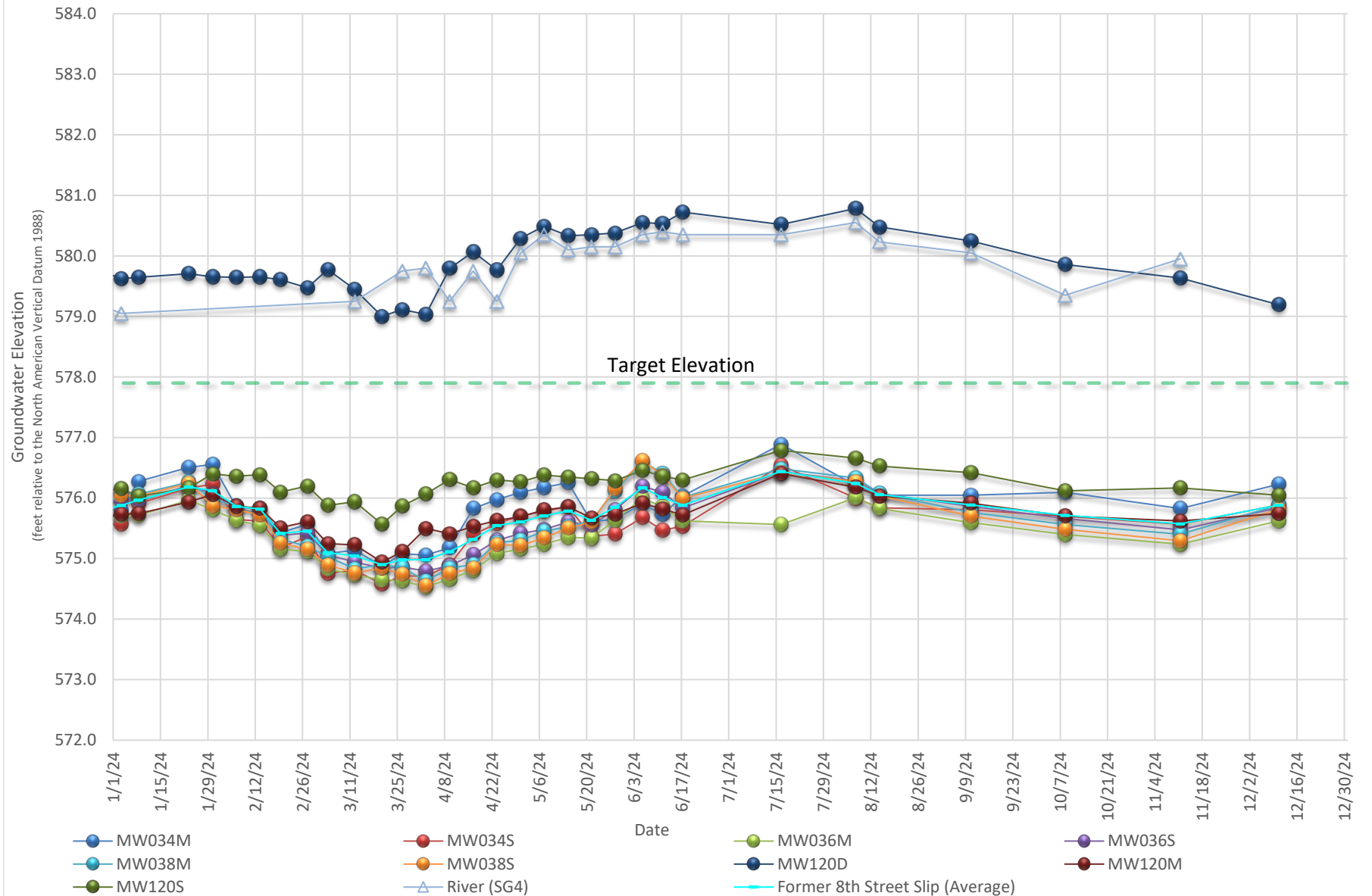
2024 Pump Down Program

Hydrographs of Manual Water Levels for Former Salt Vault Monitoring Wells



2024 Pump Down Program

Hydrographs of Manual Water Levels for Former 8th Street Slip Monitoring Wells



Attachment 5

Building 18 Paving-Related Soil Waste Characterization Laboratory Results



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kirk Kapfhammer
Endpoint Solutions Corp
6871 S. Lover's Lane
Franklin, Wisconsin 53132

Generated 8/5/2024 2:56:10 PM

JOB DESCRIPTION

TYCO-Earthwork Stanton St

JOB NUMBER

500-253999-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits

- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = $3.33 \times \text{LOD}$ as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
8/5/2024 2:56:10 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	16
QC Association	17
Surrogate Summary	19
QC Sample Results	20
Chronicle	27
Certification Summary	29
Chain of Custody	30
Receipt Checklists	33
Field Data Sheets	35
Isotope Dilution Summary	36

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Case Narrative

Client: Endpoint Solutions Corp
Project: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Job ID: 500-253999-1

Eurofins Chicago

Job Narrative 500-253999-1

Receipt

The samples were received on 7/25/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 1.5° C.

GC/MS VOA

Method 5035: sample vial has < 8 gram of soil in 10 ml of methanol. WC1-7-22 (500-253999-1), WC2-7-22 (500-253999-2), WC3-7-22 (500-253999-3) and WC4-7-22 (500-253999-4)

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-779117 and analytical batch 500-779138 recovered outside control limits for the following analytes: Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

LCMS

Method 537 (modified): Due to the high concentration of Perfluorooctanesulfonic acid (PFOS) in the sample, the low matrix spike and the low matrix spike duplicate (MSD) for preparation batch 320-786241 and analytical batch 320-786937 could not be evaluated for accuracy and precision. The associated low level laboratory control sample (LLCS) met acceptance criteria.

Method 537 (modified): Results for sample WC4-7-22 (500-253999-4) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

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

General Chemistry

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

Organic Prep

Method SHAKE: The following samples in preparation batch 320-786241 were yellow in color prior to extraction. WC1-7-22 (500-253999-1), WC2-7-22 (500-253999-2), WC3-7-22 (500-253999-3), WC4-7-22 (500-253999-4), (500-253999-C-1 LMS) and (500-253999-C-1 LMSD)

Method SHAKE: The following samples in preparation batch 320-786241 were light yellow in color following extraction. WC1-7-22 (500-253999-1), WC2-7-22 (500-253999-2), WC3-7-22 (500-253999-3), WC4-7-22 (500-253999-4), (500-253999-C-1 LMS) and (500-253999-C-1 LMSD)

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

Eurofins Chicago

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC1-7-22

Lab Sample ID: 500-253999-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.020	J	0.023	0.016	mg/Kg	50	✱	8260D	Total/NA
Naphthalene	0.12		0.092	0.041	mg/Kg	50	✱	8260D	Total/NA
Toluene	0.028		0.023	0.019	mg/Kg	50	✱	8260D	Total/NA
1,2,4-Trimethylbenzene	0.065	J	0.092	0.028	mg/Kg	50	✱	8260D	Total/NA
Xylenes, Total	0.19		0.046	0.022	mg/Kg	50	✱	8260D	Total/NA
Perfluorooctanoic acid (PFOA)	1.7		0.21	0.057	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.2		0.21	0.046	ug/Kg	1	✱	537 (modified)	Total/NA

Client Sample ID: WC2-7-22

Lab Sample ID: 500-253999-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.027		0.023	0.020	mg/Kg	50	✱	8260D	Total/NA
1,2,4-Trimethylbenzene	0.031	J	0.094	0.028	mg/Kg	50	✱	8260D	Total/NA
Xylenes, Total	0.12		0.047	0.022	mg/Kg	50	✱	8260D	Total/NA
Perfluorooctanoic acid (PFOA)	3.7		0.23	0.060	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.0		0.23	0.049	ug/Kg	1	✱	537 (modified)	Total/NA

Client Sample ID: WC3-7-22

Lab Sample ID: 500-253999-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.095	J	0.21	0.095	mg/Kg	50	✱	8260D	Total/NA
Ethylbenzene	0.091		0.026	0.018	mg/Kg	50	✱	8260D	Total/NA
Isopropylbenzene	0.075	J	0.10	0.030	mg/Kg	50	✱	8260D	Total/NA
Methylene Chloride	0.23	J	0.52	0.22	mg/Kg	50	✱	8260D	Total/NA
Naphthalene	0.049	J	0.10	0.046	mg/Kg	50	✱	8260D	Total/NA
N-Propylbenzene	0.073	J	0.10	0.033	mg/Kg	50	✱	8260D	Total/NA
Toluene	0.026		0.026	0.022	mg/Kg	50	✱	8260D	Total/NA
1,2,4-Trimethylbenzene	0.38		0.10	0.031	mg/Kg	50	✱	8260D	Total/NA
1,3,5-Trimethylbenzene	0.22		0.10	0.030	mg/Kg	50	✱	8260D	Total/NA
Xylenes, Total	1.4		0.052	0.024	mg/Kg	50	✱	8260D	Total/NA
Perfluorooctanoic acid (PFOA)	9.9		0.21	0.056	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.9		0.21	0.045	ug/Kg	1	✱	537 (modified)	Total/NA

Client Sample ID: WC4-7-22

Lab Sample ID: 500-253999-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.10	J	0.21	0.096	mg/Kg	50	✱	8260D	Total/NA
Methylene Chloride	0.25	J	0.52	0.22	mg/Kg	50	✱	8260D	Total/NA
Naphthalene	0.075	J	0.10	0.046	mg/Kg	50	✱	8260D	Total/NA
Toluene	0.043		0.026	0.022	mg/Kg	50	✱	8260D	Total/NA
1,2,4-Trimethylbenzene	0.037	J	0.10	0.031	mg/Kg	50	✱	8260D	Total/NA
Xylenes, Total	0.11		0.052	0.024	mg/Kg	50	✱	8260D	Total/NA
Perfluorooctanoic acid (PFOA)	70		0.98	0.26	ug/Kg	5	✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	30		0.98	0.21	ug/Kg	5	✱	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
Moisture	Percent Moisture	EPA	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-253999-1	WC1-7-22	Solid	07/22/24 11:00	07/25/24 09:30
500-253999-2	WC2-7-22	Solid	07/22/24 11:30	07/25/24 09:30
500-253999-3	WC3-7-22	Solid	07/22/24 11:45	07/25/24 09:30
500-253999-4	WC4-7-22	Solid	07/22/24 11:55	07/25/24 09:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC1-7-22

Lab Sample ID: 500-253999-1

Date Collected: 07/22/24 11:00

Matrix: Solid

Date Received: 07/25/24 09:30

Percent Solids: 83.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.011		0.023	0.011	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Bromobenzene	<0.055		0.092	0.055	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Bromochloromethane	<0.046		0.092	0.046	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Bromodichloromethane	<0.052		0.092	0.052	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Bromoform	<0.088		0.092	0.088	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Bromomethane	<0.16		0.28	0.16	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Carbon tetrachloride	<0.038		0.092	0.038	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Chlorobenzene	<0.038		0.092	0.038	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Chloroethane	<0.043		0.46	0.043	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Chloroform	<0.085		0.18	0.085	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Chloromethane	<0.072		0.46	0.072	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
2-Chlorotoluene	<0.033		0.092	0.033	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
4-Chlorotoluene	<0.032		0.092	0.032	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
cis-1,2-Dichloroethene	<0.038		0.092	0.038	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
cis-1,3-Dichloropropene	<0.048		0.092	0.048	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Chlorodibromomethane	<0.076		0.092	0.076	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,2-Dibromo-3-Chloropropane	<0.37		0.46	0.37	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,2-Dibromoethane (EDB)	<0.052		0.092	0.052	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Dibromomethane	<0.053		0.092	0.053	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,2-Dichlorobenzene	<0.044		0.092	0.044	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,3-Dichlorobenzene	<0.037		0.092	0.037	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,4-Dichlorobenzene	<0.042		0.092	0.042	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Dichlorodifluoromethane	<0.16		0.28	0.16	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,1-Dichloroethane	<0.033		0.092	0.033	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,2-Dichloroethane	<0.053		0.092	0.053	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,1-Dichloroethene	<0.044		0.092	0.044	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,2-Dichloropropane	<0.034		0.092	0.034	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,3-Dichloropropane	<0.051		0.092	0.051	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
2,2-Dichloropropane	<0.044		0.46	0.044	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,1-Dichloropropene	<0.031		0.092	0.031	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Ethylbenzene	0.020 J		0.023	0.016	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Hexachlorobutadiene	<0.050		0.092	0.050	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Isopropylbenzene	<0.027		0.092	0.027	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Isopropyl ether	<0.035		0.092	0.035	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Methylene Chloride	<0.20		0.46	0.20	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Methyl tert-butyl ether	<0.040		0.092	0.040	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Naphthalene	0.12		0.092	0.041	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
n-Butylbenzene	<0.030		0.092	0.030	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
N-Propylbenzene	<0.029		0.092	0.029	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
p-Isopropyltoluene	<0.027		0.092	0.027	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
sec-Butylbenzene	<0.025		0.092	0.025	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Styrene	<0.028		0.092	0.028	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
tert-Butylbenzene	<0.024		0.092	0.024	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,1,1,2-Tetrachloroethane	<0.061		0.092	0.061	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,1,2,2-Tetrachloroethane	<0.059		0.092	0.059	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Tetrachloroethene	<0.036		0.092	0.036	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Toluene	0.028		0.023	0.019	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
trans-1,2-Dichloroethene	<0.040		0.092	0.040	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
trans-1,3-Dichloropropene	<0.058		0.092	0.058	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC1-7-22

Lab Sample ID: 500-253999-1

Date Collected: 07/22/24 11:00

Matrix: Solid

Date Received: 07/25/24 09:30

Percent Solids: 83.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.032		0.092	0.032	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,2,4-Trichlorobenzene	<0.028		0.092	0.028	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,1,1-Trichloroethane	<0.041		0.092	0.041	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,1,2-Trichloroethane	<0.067		0.092	0.067	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Trichloroethene	<0.014		0.046	0.014	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Trichlorofluoromethane	<0.041		0.092	0.041	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,2,3-Trichloropropane	<0.14		0.18	0.14	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,2,4-Trimethylbenzene	0.065	J	0.092	0.028	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
1,3,5-Trimethylbenzene	<0.026		0.092	0.026	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Vinyl chloride	<0.043	*+	0.092	0.043	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50
Xylenes, Total	0.19		0.046	0.022	mg/Kg	☆	07/22/24 11:00	07/31/24 12:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	07/22/24 11:00	07/31/24 12:00	50
Dibromofluoromethane (Surr)	84		75 - 120	07/22/24 11:00	07/31/24 12:00	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	07/22/24 11:00	07/31/24 12:00	50
Toluene-d8 (Surr)	87		75 - 120	07/22/24 11:00	07/31/24 12:00	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	1.7		0.21	0.057	ug/Kg	☆	07/31/24 08:44	08/01/24 19:11	1
Perfluorooctanesulfonic acid (PFOS)	2.2		0.21	0.046	ug/Kg	☆	07/31/24 08:44	08/01/24 19:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	82		25 - 150	07/31/24 08:44	08/01/24 19:11	1
13C4 PFOA	86		25 - 150	07/31/24 08:44	08/01/24 19:11	1

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC2-7-22

Lab Sample ID: 500-253999-2

Date Collected: 07/22/24 11:30

Matrix: Solid

Date Received: 07/25/24 09:30

Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.012		0.023	0.012	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Bromobenzene	<0.056		0.094	0.056	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Bromochloromethane	<0.047		0.094	0.047	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Bromodichloromethane	<0.053		0.094	0.053	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Bromoform	<0.090		0.094	0.090	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Bromomethane	<0.17		0.28	0.17	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Carbon tetrachloride	<0.039		0.094	0.039	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Chlorobenzene	<0.039		0.094	0.039	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Chloroethane	<0.044		0.47	0.044	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Chloroform	<0.086		0.19	0.086	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Chloromethane	<0.074		0.47	0.074	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
2-Chlorotoluene	<0.034		0.094	0.034	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
4-Chlorotoluene	<0.032		0.094	0.032	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
cis-1,2-Dichloroethene	<0.039		0.094	0.039	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
cis-1,3-Dichloropropene	<0.049		0.094	0.049	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Chlorodibromomethane	<0.078		0.094	0.078	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,2-Dibromo-3-Chloropropane	<0.38		0.47	0.38	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,2-Dibromoethane (EDB)	<0.053		0.094	0.053	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Dibromomethane	<0.054		0.094	0.054	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,2-Dichlorobenzene	<0.045		0.094	0.045	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,3-Dichlorobenzene	<0.038		0.094	0.038	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,4-Dichlorobenzene	<0.043		0.094	0.043	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Dichlorodifluoromethane	<0.17		0.28	0.17	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,1-Dichloroethane	<0.034		0.094	0.034	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,2-Dichloroethane	<0.054		0.094	0.054	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,1-Dichloroethene	<0.045		0.094	0.045	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,2-Dichloropropane	<0.035		0.094	0.035	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,3-Dichloropropane	<0.052		0.094	0.052	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
2,2-Dichloropropane	<0.045		0.47	0.045	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,1-Dichloropropene	<0.031		0.094	0.031	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Ethylbenzene	<0.016		0.023	0.016	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Hexachlorobutadiene	<0.051		0.094	0.051	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Isopropylbenzene	<0.027		0.094	0.027	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Isopropyl ether	<0.036		0.094	0.036	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Methylene Chloride	<0.20		0.47	0.20	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Methyl tert-butyl ether	<0.041		0.094	0.041	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Naphthalene	<0.041		0.094	0.041	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
n-Butylbenzene	<0.031		0.094	0.031	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
N-Propylbenzene	<0.030		0.094	0.030	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
p-Isopropyltoluene	<0.027		0.094	0.027	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
sec-Butylbenzene	<0.025		0.094	0.025	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Styrene	<0.029		0.094	0.029	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
tert-Butylbenzene	<0.025		0.094	0.025	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,1,1,2-Tetrachloroethane	<0.062		0.094	0.062	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,1,2,2-Tetrachloroethane	<0.061		0.094	0.061	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Tetrachloroethene	<0.037		0.094	0.037	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Toluene	0.027		0.023	0.020	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
trans-1,2-Dichloroethene	<0.041		0.094	0.041	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
trans-1,3-Dichloropropene	<0.059		0.094	0.059	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC2-7-22

Lab Sample ID: 500-253999-2

Date Collected: 07/22/24 11:30

Matrix: Solid

Date Received: 07/25/24 09:30

Percent Solids: 84.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.033		0.094	0.033	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,2,4-Trichlorobenzene	<0.029		0.094	0.029	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,1,1-Trichloroethane	<0.042		0.094	0.042	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,1,2-Trichloroethane	<0.069		0.094	0.069	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Trichloroethene	<0.014		0.047	0.014	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Trichlorofluoromethane	<0.042		0.094	0.042	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,2,3-Trichloropropane	<0.14		0.19	0.14	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,2,4-Trimethylbenzene	0.031	J	0.094	0.028	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
1,3,5-Trimethylbenzene	<0.027		0.094	0.027	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Vinyl chloride	<0.044	*+	0.094	0.044	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50
Xylenes, Total	0.12		0.047	0.022	mg/Kg	☆	07/22/24 11:30	07/31/24 12:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		72 - 124	07/22/24 11:30	07/31/24 12:23	50
Dibromofluoromethane (Surr)	82		75 - 120	07/22/24 11:30	07/31/24 12:23	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	07/22/24 11:30	07/31/24 12:23	50
Toluene-d8 (Surr)	86		75 - 120	07/22/24 11:30	07/31/24 12:23	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	3.7		0.23	0.060	ug/Kg	☆	07/31/24 08:44	08/01/24 19:53	1
Perfluorooctanesulfonic acid (PFOS)	5.0		0.23	0.049	ug/Kg	☆	07/31/24 08:44	08/01/24 19:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	82		25 - 150	07/31/24 08:44	08/01/24 19:53	1
13C4 PFOA	87		25 - 150	07/31/24 08:44	08/01/24 19:53	1

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC3-7-22

Lab Sample ID: 500-253999-3

Date Collected: 07/22/24 11:45

Matrix: Solid

Date Received: 07/25/24 09:30

Percent Solids: 86.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.013		0.026	0.013	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Bromobenzene	<0.061		0.10	0.061	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Bromochloromethane	<0.051		0.10	0.051	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Bromodichloromethane	<0.059		0.10	0.059	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Bromoform	<0.099		0.10	0.099	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Bromomethane	<0.18		0.31	0.18	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Carbon tetrachloride	<0.043		0.10	0.043	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Chlorobenzene	<0.042		0.10	0.042	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Chloroethane	<0.048		0.52	0.048	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Chloroform	0.095	J	0.21	0.095	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Chloromethane	<0.081		0.52	0.081	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
2-Chlorotoluene	<0.037		0.10	0.037	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
4-Chlorotoluene	<0.035		0.10	0.035	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
cis-1,2-Dichloroethene	<0.043		0.10	0.043	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
cis-1,3-Dichloropropene	<0.053		0.10	0.053	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Chlorodibromomethane	<0.085		0.10	0.085	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,2-Dibromo-3-Chloropropane	<0.42		0.52	0.42	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,2-Dibromoethane (EDB)	<0.058		0.10	0.058	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Dibromomethane	<0.060		0.10	0.060	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,2-Dichlorobenzene	<0.049		0.10	0.049	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,3-Dichlorobenzene	<0.042		0.10	0.042	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,4-Dichlorobenzene	<0.047		0.10	0.047	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Dichlorodifluoromethane	<0.18		0.31	0.18	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,1-Dichloroethane	<0.037		0.10	0.037	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,2-Dichloroethane	<0.060		0.10	0.060	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,1-Dichloroethene	<0.049		0.10	0.049	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,2-Dichloropropane	<0.039		0.10	0.039	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,3-Dichloropropane	<0.058		0.10	0.058	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
2,2-Dichloropropane	<0.050		0.52	0.050	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,1-Dichloropropene	<0.034		0.10	0.034	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Ethylbenzene	0.091		0.026	0.018	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Hexachlorobutadiene	<0.056		0.10	0.056	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Isopropylbenzene	0.075	J	0.10	0.030	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Isopropyl ether	<0.040		0.10	0.040	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Methylene Chloride	0.23	J	0.52	0.22	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Methyl tert-butyl ether	<0.045		0.10	0.045	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Naphthalene	0.049	J	0.10	0.046	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
n-Butylbenzene	<0.034		0.10	0.034	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
N-Propylbenzene	0.073	J	0.10	0.033	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
p-Isopropyltoluene	<0.030		0.10	0.030	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
sec-Butylbenzene	<0.028		0.10	0.028	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Styrene	<0.032		0.10	0.032	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
tert-Butylbenzene	<0.027		0.10	0.027	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,1,1,2-Tetrachloroethane	<0.069		0.10	0.069	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,1,2,2-Tetrachloroethane	<0.067		0.10	0.067	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Tetrachloroethene	<0.040		0.10	0.040	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Toluene	0.026		0.026	0.022	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
trans-1,2-Dichloroethene	<0.045		0.10	0.045	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
trans-1,3-Dichloropropene	<0.065		0.10	0.065	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC3-7-22

Lab Sample ID: 500-253999-3

Date Collected: 07/22/24 11:45

Matrix: Solid

Date Received: 07/25/24 09:30

Percent Solids: 86.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.036		0.10	0.036	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,2,4-Trichlorobenzene	<0.032		0.10	0.032	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,1,1-Trichloroethane	<0.046		0.10	0.046	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,1,2-Trichloroethane	<0.075		0.10	0.075	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Trichloroethene	<0.015		0.052	0.015	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Trichlorofluoromethane	<0.046		0.10	0.046	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,2,3-Trichloropropane	<0.15		0.21	0.15	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,2,4-Trimethylbenzene	0.38		0.10	0.031	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
1,3,5-Trimethylbenzene	0.22		0.10	0.030	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Vinyl chloride	<0.048	*+	0.10	0.048	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50
Xylenes, Total	1.4		0.052	0.024	mg/Kg	☆	07/22/24 11:45	07/31/24 12:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	07/22/24 11:45	07/31/24 12:47	50
Dibromofluoromethane (Surr)	83		75 - 120	07/22/24 11:45	07/31/24 12:47	50
1,2-Dichloroethane-d4 (Surr)	90		75 - 126	07/22/24 11:45	07/31/24 12:47	50
Toluene-d8 (Surr)	86		75 - 120	07/22/24 11:45	07/31/24 12:47	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	9.9		0.21	0.056	ug/Kg	☆	07/31/24 08:44	08/01/24 20:07	1
Perfluorooctanesulfonic acid (PFOS)	4.9		0.21	0.045	ug/Kg	☆	07/31/24 08:44	08/01/24 20:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	67		25 - 150	07/31/24 08:44	08/01/24 20:07	1
13C4 PFOA	89		25 - 150	07/31/24 08:44	08/01/24 20:07	1

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC4-7-22

Lab Sample ID: 500-253999-4

Date Collected: 07/22/24 11:55

Matrix: Solid

Date Received: 07/25/24 09:30

Percent Solids: 94.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.013		0.026	0.013	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Bromobenzene	<0.062		0.10	0.062	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Bromochloromethane	<0.052		0.10	0.052	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Bromodichloromethane	<0.059		0.10	0.059	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Bromoform	<0.10		0.10	0.10	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Bromomethane	<0.19		0.31	0.19	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Carbon tetrachloride	<0.043		0.10	0.043	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Chlorobenzene	<0.043		0.10	0.043	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Chloroethane	<0.049		0.52	0.049	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Chloroform	0.10	J	0.21	0.096	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Chloromethane	<0.082		0.52	0.082	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
2-Chlorotoluene	<0.037		0.10	0.037	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
4-Chlorotoluene	<0.036		0.10	0.036	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
cis-1,2-Dichloroethene	<0.043		0.10	0.043	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
cis-1,3-Dichloropropene	<0.054		0.10	0.054	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Chlorodibromomethane	<0.086		0.10	0.086	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,2-Dibromo-3-Chloropropane	<0.42		0.52	0.42	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,2-Dibromoethane (EDB)	<0.058		0.10	0.058	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Dibromomethane	<0.060		0.10	0.060	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,2-Dichlorobenzene	<0.050		0.10	0.050	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,3-Dichlorobenzene	<0.042		0.10	0.042	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,4-Dichlorobenzene	<0.047		0.10	0.047	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Dichlorodifluoromethane	<0.18		0.31	0.18	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,1-Dichloroethane	<0.038		0.10	0.038	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,2-Dichloroethane	<0.060		0.10	0.060	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,1-Dichloroethene	<0.050		0.10	0.050	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,2-Dichloropropane	<0.039		0.10	0.039	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,3-Dichloropropane	<0.058		0.10	0.058	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
2,2-Dichloropropane	<0.050		0.52	0.050	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,1-Dichloropropene	<0.035		0.10	0.035	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Ethylbenzene	<0.018		0.026	0.018	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Hexachlorobutadiene	<0.056		0.10	0.056	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Isopropylbenzene	<0.030		0.10	0.030	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Isopropyl ether	<0.040		0.10	0.040	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Methylene Chloride	0.25	J	0.52	0.22	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Methyl tert-butyl ether	<0.045		0.10	0.045	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Naphthalene	0.075	J	0.10	0.046	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
n-Butylbenzene	<0.034		0.10	0.034	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
N-Propylbenzene	<0.033		0.10	0.033	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
p-Isopropyltoluene	<0.030		0.10	0.030	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
sec-Butylbenzene	<0.028		0.10	0.028	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Styrene	<0.032		0.10	0.032	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
tert-Butylbenzene	<0.028		0.10	0.028	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,1,1,2-Tetrachloroethane	<0.069		0.10	0.069	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,1,2,2-Tetrachloroethane	<0.067		0.10	0.067	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Tetrachloroethene	<0.040		0.10	0.040	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Toluene	0.043		0.026	0.022	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
trans-1,2-Dichloroethene	<0.046		0.10	0.046	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
trans-1,3-Dichloropropene	<0.066		0.10	0.066	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC4-7-22

Lab Sample ID: 500-253999-4

Date Collected: 07/22/24 11:55

Matrix: Solid

Date Received: 07/25/24 09:30

Percent Solids: 94.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.037		0.10	0.037	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,2,4-Trichlorobenzene	<0.032		0.10	0.032	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,1,1-Trichloroethane	<0.047		0.10	0.047	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,1,2-Trichloroethane	<0.076		0.10	0.076	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Trichloroethene	<0.015		0.052	0.015	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Trichlorofluoromethane	<0.046		0.10	0.046	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,2,3-Trichloropropane	<0.16		0.21	0.16	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,2,4-Trimethylbenzene	0.037	J	0.10	0.031	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
1,3,5-Trimethylbenzene	<0.030		0.10	0.030	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Vinyl chloride	<0.049	*+	0.10	0.049	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50
Xylenes, Total	0.11		0.052	0.024	mg/Kg	☆	07/22/24 11:55	07/31/24 13:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		72 - 124	07/22/24 11:55	07/31/24 13:10	50
Dibromofluoromethane (Surr)	84		75 - 120	07/22/24 11:55	07/31/24 13:10	50
1,2-Dichloroethane-d4 (Surr)	91		75 - 126	07/22/24 11:55	07/31/24 13:10	50
Toluene-d8 (Surr)	88		75 - 120	07/22/24 11:55	07/31/24 13:10	50

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	70		0.98	0.26	ug/Kg	☆	07/31/24 08:44	08/02/24 11:39	5
Perfluorooctanesulfonic acid (PFOS)	30		0.98	0.21	ug/Kg	☆	07/31/24 08:44	08/02/24 11:39	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	82		25 - 150	07/31/24 08:44	08/02/24 11:39	5
13C4 PFOA	86		25 - 150	07/31/24 08:44	08/02/24 11:39	5

Definitions/Glossary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

QC Association Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

GC/MS VOA

Prep Batch: 779117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253999-1	WC1-7-22	Total/NA	Solid	5035	
500-253999-2	WC2-7-22	Total/NA	Solid	5035	
500-253999-3	WC3-7-22	Total/NA	Solid	5035	
500-253999-4	WC4-7-22	Total/NA	Solid	5035	
LB3 500-779117/11-A	Method Blank	Total/NA	Solid	5035	
LCS 500-779117/12-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 779138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253999-1	WC1-7-22	Total/NA	Solid	8260D	779117
500-253999-2	WC2-7-22	Total/NA	Solid	8260D	779117
500-253999-3	WC3-7-22	Total/NA	Solid	8260D	779117
500-253999-4	WC4-7-22	Total/NA	Solid	8260D	779117
LB3 500-779117/11-A	Method Blank	Total/NA	Solid	8260D	779117
MB 500-779138/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-779117/12-A	Lab Control Sample	Total/NA	Solid	8260D	779117
LCS 500-779138/4	Lab Control Sample	Total/NA	Solid	8260D	

LCMS

Prep Batch: 786241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253999-1	WC1-7-22	Total/NA	Solid	SHAKE	
500-253999-2	WC2-7-22	Total/NA	Solid	SHAKE	
500-253999-3	WC3-7-22	Total/NA	Solid	SHAKE	
500-253999-4	WC4-7-22	Total/NA	Solid	SHAKE	
MB 320-786241/1-A	Method Blank	Total/NA	Solid	SHAKE	
LLCS 320-786241/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
500-253999-1 LMS	WC1-7-22	Total/NA	Solid	SHAKE	
500-253999-1 LMSD	WC1-7-22	Total/NA	Solid	SHAKE	

Analysis Batch: 786937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253999-1	WC1-7-22	Total/NA	Solid	537 (modified)	786241
500-253999-2	WC2-7-22	Total/NA	Solid	537 (modified)	786241
500-253999-3	WC3-7-22	Total/NA	Solid	537 (modified)	786241
MB 320-786241/1-A	Method Blank	Total/NA	Solid	537 (modified)	786241
LLCS 320-786241/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	786241
500-253999-1 LMS	WC1-7-22	Total/NA	Solid	537 (modified)	786241
500-253999-1 LMSD	WC1-7-22	Total/NA	Solid	537 (modified)	786241

Analysis Batch: 787120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253999-4	WC4-7-22	Total/NA	Solid	537 (modified)	786241

General Chemistry

Analysis Batch: 778839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253999-1	WC1-7-22	Total/NA	Solid	Moisture	
500-253999-2	WC2-7-22	Total/NA	Solid	Moisture	
500-253999-3	WC3-7-22	Total/NA	Solid	Moisture	

Eurofins Chicago

QC Association Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

General Chemistry (Continued)

Analysis Batch: 778839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253999-4	WC4-7-22	Total/NA	Solid	Moisture	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Surrogate Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 8260D - Volatile Organic Compounds by GC/MS
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-253999-1	WC1-7-22	88	84	89	87
500-253999-2	WC2-7-22	89	82	89	86
500-253999-3	WC3-7-22	88	83	90	86
500-253999-4	WC4-7-22	87	84	91	88
LB3 500-779117/11-A	Method Blank	88	82	84	87
LCS 500-779117/12-A	Lab Control Sample	87	88	95	88
LCS 500-779138/4	Lab Control Sample	85	85	84	91
MB 500-779138/7	Method Blank	87	83	84	87
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 500-779117/11-A

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 779117

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0061		0.013	0.0061	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Bromobenzene	<0.030		0.050	0.030	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Bromochloromethane	<0.025		0.050	0.025	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Bromodichloromethane	<0.028		0.050	0.028	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Bromoform	<0.048		0.050	0.048	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Bromomethane	<0.090		0.15	0.090	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Carbon tetrachloride	<0.021		0.050	0.021	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Chlorobenzene	<0.021		0.050	0.021	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Chloroethane	<0.024		0.25	0.024	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Chloroform	<0.046		0.10	0.046	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Chloromethane	<0.039		0.25	0.039	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
2-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
4-Chlorotoluene	<0.017		0.050	0.017	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
cis-1,2-Dichloroethene	<0.021		0.050	0.021	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
cis-1,3-Dichloropropene	<0.026		0.050	0.026	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Chlorodibromomethane	<0.041		0.050	0.041	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2-Dibromo-3-Chloropropane	<0.20		0.25	0.20	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2-Dibromoethane (EDB)	<0.028		0.050	0.028	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Dibromomethane	<0.029		0.050	0.029	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2-Dichlorobenzene	<0.024		0.050	0.024	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,4-Dichlorobenzene	<0.023		0.050	0.023	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Dichlorodifluoromethane	<0.088		0.15	0.088	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,1-Dichloroethane	<0.018		0.050	0.018	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2-Dichloroethane	<0.029		0.050	0.029	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,1-Dichloroethene	<0.024		0.050	0.024	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2-Dichloropropane	<0.019		0.050	0.019	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,3-Dichloropropane	<0.028		0.050	0.028	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
2,2-Dichloropropane	<0.024		0.25	0.024	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,1-Dichloropropene	<0.017		0.050	0.017	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Ethylbenzene	<0.0086		0.013	0.0086	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Hexachlorobutadiene	<0.027		0.050	0.027	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Isopropylbenzene	<0.015		0.050	0.015	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Isopropyl ether	<0.019		0.050	0.019	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Methylene Chloride	<0.11		0.25	0.11	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Methyl tert-butyl ether	<0.022		0.050	0.022	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Naphthalene	<0.022		0.050	0.022	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
n-Butylbenzene	<0.016		0.050	0.016	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
N-Propylbenzene	<0.016		0.050	0.016	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
p-Isopropyltoluene	<0.015		0.050	0.015	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
sec-Butylbenzene	<0.014		0.050	0.014	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Styrene	<0.015		0.050	0.015	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
tert-Butylbenzene	<0.013		0.050	0.013	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,1,1,2-Tetrachloroethane	<0.033		0.050	0.033	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,1,2,2-Tetrachloroethane	<0.032		0.050	0.032	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Toluene	<0.011		0.013	0.011	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
trans-1,2-Dichloroethene	<0.022		0.050	0.022	mg/Kg		07/31/24 01:20	07/31/24 10:01	50

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 500-779117/11-A

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 779117

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.032		0.050	0.032	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2,3-Trichlorobenzene	<0.018		0.050	0.018	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2,4-Trichlorobenzene	<0.015		0.050	0.015	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,1,1-Trichloroethane	<0.023		0.050	0.023	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,1,2-Trichloroethane	<0.037		0.050	0.037	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Trichloroethene	<0.0074		0.025	0.0074	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Trichlorofluoromethane	<0.022		0.050	0.022	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2,3-Trichloropropane	<0.075		0.10	0.075	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,2,4-Trimethylbenzene	<0.015		0.050	0.015	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
1,3,5-Trimethylbenzene	<0.014		0.050	0.014	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Vinyl chloride	<0.023		0.050	0.023	mg/Kg		07/31/24 01:20	07/31/24 10:01	50
Xylenes, Total	<0.012		0.025	0.012	mg/Kg		07/31/24 01:20	07/31/24 10:01	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	07/31/24 01:20	07/31/24 10:01	50
Dibromofluoromethane (Surr)	82		75 - 120	07/31/24 01:20	07/31/24 10:01	50
1,2-Dichloroethane-d4 (Surr)	84		75 - 126	07/31/24 01:20	07/31/24 10:01	50
Toluene-d8 (Surr)	87		75 - 120	07/31/24 01:20	07/31/24 10:01	50

Lab Sample ID: LCS 500-779117/12-A

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 779117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	1.94		mg/Kg		78	70 - 120
Bromobenzene	2.50	2.35		mg/Kg		94	70 - 122
Bromochloromethane	2.50	2.40		mg/Kg		96	65 - 122
Bromodichloromethane	2.50	2.08		mg/Kg		83	69 - 120
Bromoform	2.50	2.28		mg/Kg		91	56 - 132
Bromomethane	2.50	2.23		mg/Kg		89	40 - 152
Carbon tetrachloride	2.50	2.26		mg/Kg		90	59 - 133
Chlorobenzene	2.50	2.31		mg/Kg		92	70 - 120
Chloroethane	2.50	2.47		mg/Kg		99	48 - 136
Chloroform	2.50	2.15		mg/Kg		86	70 - 120
Chloromethane	2.50	1.80		mg/Kg		72	56 - 152
2-Chlorotoluene	2.50	2.07		mg/Kg		83	70 - 125
4-Chlorotoluene	2.50	2.04		mg/Kg		81	68 - 124
cis-1,2-Dichloroethene	2.50	2.22		mg/Kg		89	70 - 125
cis-1,3-Dichloropropene	2.50	2.18		mg/Kg		87	64 - 127
Chlorodibromomethane	2.50	2.35		mg/Kg		94	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	1.71		mg/Kg		69	56 - 123
1,2-Dibromoethane (EDB)	2.50	2.49		mg/Kg		100	70 - 125
Dibromomethane	2.50	2.23		mg/Kg		89	70 - 120
1,2-Dichlorobenzene	2.50	2.17		mg/Kg		87	70 - 125
1,3-Dichlorobenzene	2.50	2.17		mg/Kg		87	70 - 125
1,4-Dichlorobenzene	2.50	2.19		mg/Kg		88	70 - 120
Dichlorodifluoromethane	2.50	1.00		mg/Kg		40	40 - 159
1,1-Dichloroethane	2.50	2.48		mg/Kg		99	70 - 125

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-779117/12-A

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 779117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	2.50	2.61		mg/Kg		105	68 - 127
1,1-Dichloroethene	2.50	2.17		mg/Kg		87	67 - 122
1,2-Dichloropropane	2.50	2.61		mg/Kg		104	67 - 130
1,3-Dichloropropane	2.50	2.29		mg/Kg		92	62 - 136
2,2-Dichloropropane	2.50	2.17		mg/Kg		87	58 - 139
1,1-Dichloropropene	2.50	2.11		mg/Kg		84	70 - 121
Ethylbenzene	2.50	2.05		mg/Kg		82	70 - 123
Hexachlorobutadiene	2.50	1.57		mg/Kg		63	51 - 150
Isopropylbenzene	2.50	1.94		mg/Kg		77	70 - 126
Methylene Chloride	2.50	2.14		mg/Kg		86	69 - 125
Methyl tert-butyl ether	2.50	2.22		mg/Kg		89	55 - 123
Naphthalene	2.50	1.72		mg/Kg		69	53 - 144
n-Butylbenzene	2.50	1.84		mg/Kg		74	68 - 125
N-Propylbenzene	2.50	2.02		mg/Kg		81	69 - 127
p-Isopropyltoluene	2.50	2.12		mg/Kg		85	70 - 125
sec-Butylbenzene	2.50	2.00		mg/Kg		80	70 - 123
Styrene	2.50	2.23		mg/Kg		89	70 - 120
tert-Butylbenzene	2.50	2.19		mg/Kg		88	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.43		mg/Kg		97	70 - 125
1,1,2,2-Tetrachloroethane	2.50	2.20		mg/Kg		88	62 - 140
Tetrachloroethene	2.50	2.42		mg/Kg		97	70 - 128
Toluene	2.50	1.99		mg/Kg		80	70 - 125
trans-1,2-Dichloroethene	2.50	2.24		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	2.50	2.09		mg/Kg		84	62 - 128
1,2,3-Trichlorobenzene	2.50	1.64		mg/Kg		66	51 - 145
1,2,4-Trichlorobenzene	2.50	1.65		mg/Kg		66	57 - 137
1,1,1-Trichloroethane	2.50	2.25		mg/Kg		90	70 - 125
1,1,2-Trichloroethane	2.50	2.35		mg/Kg		94	71 - 130
Trichloroethene	2.50	2.22		mg/Kg		89	70 - 125
Trichlorofluoromethane	2.50	2.17		mg/Kg		87	55 - 128
1,2,3-Trichloropropane	2.50	2.27		mg/Kg		91	50 - 133
1,2,4-Trimethylbenzene	2.50	2.00		mg/Kg		80	70 - 123
1,3,5-Trimethylbenzene	2.50	2.06		mg/Kg		82	70 - 123
Vinyl chloride	2.50	2.37		mg/Kg		95	64 - 126
Xylenes, Total	5.00	3.95		mg/Kg		79	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		72 - 124
Dibromofluoromethane (Surr)	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
Toluene-d8 (Surr)	88		75 - 120

Lab Sample ID: MB 500-779138/7

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00012		0.00025	0.00012	mg/Kg			07/31/24 09:37	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-779138/7

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.00060		0.0010	0.00060	mg/Kg			07/31/24 09:37	1
Bromochloromethane	<0.00050		0.0010	0.00050	mg/Kg			07/31/24 09:37	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			07/31/24 09:37	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			07/31/24 09:37	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			07/31/24 09:37	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			07/31/24 09:37	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			07/31/24 09:37	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			07/31/24 09:37	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			07/31/24 09:37	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			07/31/24 09:37	1
2-Chlorotoluene	<0.00036		0.0010	0.00036	mg/Kg			07/31/24 09:37	1
4-Chlorotoluene	<0.00034		0.0010	0.00034	mg/Kg			07/31/24 09:37	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			07/31/24 09:37	1
cis-1,3-Dichloropropene	<0.00052		0.0010	0.00052	mg/Kg			07/31/24 09:37	1
Chlorodibromomethane	<0.00083		0.0010	0.00083	mg/Kg			07/31/24 09:37	1
1,2-Dibromo-3-Chloropropane	<0.0041		0.0050	0.0041	mg/Kg			07/31/24 09:37	1
1,2-Dibromoethane (EDB)	<0.00056		0.0010	0.00056	mg/Kg			07/31/24 09:37	1
Dibromomethane	<0.00058		0.0010	0.00058	mg/Kg			07/31/24 09:37	1
1,2-Dichlorobenzene	<0.00048		0.0010	0.00048	mg/Kg			07/31/24 09:37	1
1,3-Dichlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			07/31/24 09:37	1
1,4-Dichlorobenzene	<0.00045		0.0010	0.00045	mg/Kg			07/31/24 09:37	1
Dichlorodifluoromethane	<0.0018		0.0030	0.0018	mg/Kg			07/31/24 09:37	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			07/31/24 09:37	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			07/31/24 09:37	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			07/31/24 09:37	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			07/31/24 09:37	1
1,3-Dichloropropane	<0.00056		0.0010	0.00056	mg/Kg			07/31/24 09:37	1
2,2-Dichloropropane	<0.00048		0.0050	0.00048	mg/Kg			07/31/24 09:37	1
1,1-Dichloropropene	<0.00033		0.0010	0.00033	mg/Kg			07/31/24 09:37	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			07/31/24 09:37	1
Hexachlorobutadiene	<0.00054		0.0010	0.00054	mg/Kg			07/31/24 09:37	1
Isopropylbenzene	<0.00029		0.0010	0.00029	mg/Kg			07/31/24 09:37	1
Isopropyl ether	<0.00038		0.0010	0.00038	mg/Kg			07/31/24 09:37	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			07/31/24 09:37	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			07/31/24 09:37	1
Naphthalene	<0.00044		0.0010	0.00044	mg/Kg			07/31/24 09:37	1
n-Butylbenzene	<0.00033		0.0010	0.00033	mg/Kg			07/31/24 09:37	1
N-Propylbenzene	<0.00032		0.0010	0.00032	mg/Kg			07/31/24 09:37	1
p-Isopropyltoluene	<0.00029		0.0010	0.00029	mg/Kg			07/31/24 09:37	1
sec-Butylbenzene	<0.00027		0.0010	0.00027	mg/Kg			07/31/24 09:37	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			07/31/24 09:37	1
tert-Butylbenzene	<0.00026		0.0010	0.00026	mg/Kg			07/31/24 09:37	1
1,1,1,2-Tetrachloroethane	<0.00067		0.0010	0.00067	mg/Kg			07/31/24 09:37	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			07/31/24 09:37	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			07/31/24 09:37	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			07/31/24 09:37	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			07/31/24 09:37	1
trans-1,3-Dichloropropene	<0.00063		0.0010	0.00063	mg/Kg			07/31/24 09:37	1
1,2,3-Trichlorobenzene	<0.00035		0.0010	0.00035	mg/Kg			07/31/24 09:37	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-779138/7

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.00031		0.0010	0.00031	mg/Kg			07/31/24 09:37	1
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			07/31/24 09:37	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			07/31/24 09:37	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			07/31/24 09:37	1
Trichlorofluoromethane	<0.00044		0.0010	0.00044	mg/Kg			07/31/24 09:37	1
1,2,3-Trichloropropane	<0.0015		0.0020	0.0015	mg/Kg			07/31/24 09:37	1
1,2,4-Trimethylbenzene	<0.00030		0.0010	0.00030	mg/Kg			07/31/24 09:37	1
1,3,5-Trimethylbenzene	<0.00029		0.0010	0.00029	mg/Kg			07/31/24 09:37	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			07/31/24 09:37	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			07/31/24 09:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		72 - 124		07/31/24 09:37	1
Dibromofluoromethane (Surr)	83		75 - 120		07/31/24 09:37	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 126		07/31/24 09:37	1
Toluene-d8 (Surr)	87		75 - 120		07/31/24 09:37	1

Lab Sample ID: LCS 500-779138/4

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0422		mg/Kg		84	70 - 120
Bromobenzene	0.0500	0.0494		mg/Kg		99	70 - 122
Bromochloromethane	0.0500	0.0467		mg/Kg		93	65 - 122
Bromodichloromethane	0.0500	0.0420		mg/Kg		84	69 - 120
Bromoform	0.0500	0.0431		mg/Kg		86	56 - 132
Bromomethane	0.0500	0.0491		mg/Kg		98	40 - 152
Carbon tetrachloride	0.0500	0.0528		mg/Kg		106	59 - 133
Chlorobenzene	0.0500	0.0519		mg/Kg		104	70 - 120
Chloroethane	0.0500	0.0601		mg/Kg		120	48 - 136
Chloroform	0.0500	0.0450		mg/Kg		90	70 - 120
Chloromethane	0.0500	0.0551		mg/Kg		110	56 - 152
2-Chlorotoluene	0.0500	0.0484		mg/Kg		97	70 - 125
4-Chlorotoluene	0.0500	0.0482		mg/Kg		96	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0479		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0457		mg/Kg		91	64 - 127
Chlorodibromomethane	0.0500	0.0460		mg/Kg		92	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0324		mg/Kg		65	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0470		mg/Kg		94	70 - 125
Dibromomethane	0.0500	0.0415		mg/Kg		83	70 - 120
1,2-Dichlorobenzene	0.0500	0.0483		mg/Kg		97	70 - 125
1,3-Dichlorobenzene	0.0500	0.0509		mg/Kg		102	70 - 125
1,4-Dichlorobenzene	0.0500	0.0502		mg/Kg		100	70 - 120
Dichlorodifluoromethane	0.0500	0.0471		mg/Kg		94	40 - 159
1,1-Dichloroethane	0.0500	0.0549		mg/Kg		110	70 - 125
1,2-Dichloroethane	0.0500	0.0513		mg/Kg		103	68 - 127
1,1-Dichloroethene	0.0500	0.0511		mg/Kg		102	67 - 122

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-779138/4

Matrix: Solid

Analysis Batch: 779138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0540		mg/Kg		108	67 - 130
1,3-Dichloropropane	0.0500	0.0431		mg/Kg		86	62 - 136
2,2-Dichloropropane	0.0500	0.0539		mg/Kg		108	58 - 139
1,1-Dichloropropene	0.0500	0.0483		mg/Kg		97	70 - 121
Ethylbenzene	0.0500	0.0480		mg/Kg		96	70 - 123
Hexachlorobutadiene	0.0500	0.0490		mg/Kg		98	51 - 150
Isopropylbenzene	0.0500	0.0456		mg/Kg		91	70 - 126
Methylene Chloride	0.0500	0.0441		mg/Kg		88	69 - 125
Methyl tert-butyl ether	0.0500	0.0384		mg/Kg		77	55 - 123
Naphthalene	0.0500	0.0366		mg/Kg		73	53 - 144
n-Butylbenzene	0.0500	0.0493		mg/Kg		99	68 - 125
N-Propylbenzene	0.0500	0.0487		mg/Kg		97	69 - 127
p-Isopropyltoluene	0.0500	0.0542		mg/Kg		108	70 - 125
sec-Butylbenzene	0.0500	0.0496		mg/Kg		99	70 - 123
Styrene	0.0500	0.0495		mg/Kg		99	70 - 120
tert-Butylbenzene	0.0500	0.0531		mg/Kg		106	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0529		mg/Kg		106	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0397		mg/Kg		79	62 - 140
Tetrachloroethene	0.0500	0.0565		mg/Kg		113	70 - 128
Toluene	0.0500	0.0445		mg/Kg		89	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0413		mg/Kg		83	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0414		mg/Kg		83	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0440		mg/Kg		88	57 - 137
1,1,1-Trichloroethane	0.0500	0.0508		mg/Kg		102	70 - 125
1,1,2-Trichloroethane	0.0500	0.0438		mg/Kg		88	71 - 130
Trichloroethene	0.0500	0.0509		mg/Kg		102	70 - 125
Trichlorofluoromethane	0.0500	0.0534		mg/Kg		107	55 - 128
1,2,3-Trichloropropane	0.0500	0.0412		mg/Kg		82	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0477		mg/Kg		95	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0491		mg/Kg		98	70 - 123
Vinyl chloride	0.0500	0.0656	*+	mg/Kg		131	64 - 126
Xylenes, Total	0.100	0.0932		mg/Kg		93	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		72 - 124
Dibromofluoromethane (Surr)	85		75 - 120
1,2-Dichloroethane-d4 (Surr)	84		75 - 126
Toluene-d8 (Surr)	91		75 - 120

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-786241/1-A

Matrix: Solid

Analysis Batch: 786937

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 786241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.053		0.20	0.053	ug/Kg		07/31/24 08:44	08/01/24 18:43	1
Perfluorooctanesulfonic acid (PFOS)	<0.043		0.20	0.043	ug/Kg		07/31/24 08:44	08/01/24 18:43	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFOS	79		25 - 150	07/31/24 08:44	08/01/24 18:43	1
13C4 PFOA	86		25 - 150	07/31/24 08:44	08/01/24 18:43	1

Lab Sample ID: LLCS 320-786241/2-A

Matrix: Solid

Analysis Batch: 786937

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 786241

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	0.400	0.376		ug/Kg		94	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.372	0.347		ug/Kg		93	50 - 150

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C4 PFOS	80		25 - 150
13C4 PFOA	86		25 - 150

Lab Sample ID: 500-253999-1 LMS

Matrix: Solid

Analysis Batch: 786937

Client Sample ID: WC1-7-22

Prep Type: Total/NA

Prep Batch: 786241

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	1.7		0.443	2.11		ug/Kg	⚠	91	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.2		0.412	2.58	4	ug/Kg	⚠	90	50 - 150

Isotope Dilution	LMS LMS		Limits
	%Recovery	Qualifier	
13C4 PFOS	86		25 - 150
13C4 PFOA	89		25 - 150

Lab Sample ID: 500-253999-1 LMSD

Matrix: Solid

Analysis Batch: 786937

Client Sample ID: WC1-7-22

Prep Type: Total/NA

Prep Batch: 786241

Analyte	Sample Result	Sample Qualifier	Spike Added	LMSD Result	LMSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	1.7		0.453	1.98		ug/Kg	⚠	59	50 - 150	7	30
Perfluorooctanesulfonic acid (PFOS)	2.2		0.421	2.36	4	ug/Kg	⚠	37	50 - 150	9	30

Isotope Dilution	LMSD LMSD		Limits
	%Recovery	Qualifier	
13C4 PFOS	90		25 - 150
13C4 PFOA	89		25 - 150

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC1-7-22

Date Collected: 07/22/24 11:00

Date Received: 07/25/24 09:30

Lab Sample ID: 500-253999-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	778839	DG	EET CHI	07/29/24 12:21

Client Sample ID: WC1-7-22

Date Collected: 07/22/24 11:00

Date Received: 07/25/24 09:30

Lab Sample ID: 500-253999-1

Matrix: Solid

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			779117	WRE	EET CHI	07/22/24 11:00
Total/NA	Analysis	8260D		50	779138	PMF	EET CHI	07/31/24 12:00
Total/NA	Prep	SHAKE			786241	ERR	EET SAC	07/31/24 08:44
Total/NA	Analysis	537 (modified)		1	786937	C1P	EET SAC	08/01/24 19:11

Client Sample ID: WC2-7-22

Date Collected: 07/22/24 11:30

Date Received: 07/25/24 09:30

Lab Sample ID: 500-253999-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	778839	DG	EET CHI	07/29/24 12:21

Client Sample ID: WC2-7-22

Date Collected: 07/22/24 11:30

Date Received: 07/25/24 09:30

Lab Sample ID: 500-253999-2

Matrix: Solid

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			779117	WRE	EET CHI	07/22/24 11:30
Total/NA	Analysis	8260D		50	779138	PMF	EET CHI	07/31/24 12:23
Total/NA	Prep	SHAKE			786241	ERR	EET SAC	07/31/24 08:44
Total/NA	Analysis	537 (modified)		1	786937	C1P	EET SAC	08/01/24 19:53

Client Sample ID: WC3-7-22

Date Collected: 07/22/24 11:45

Date Received: 07/25/24 09:30

Lab Sample ID: 500-253999-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	778839	DG	EET CHI	07/29/24 12:21

Client Sample ID: WC3-7-22

Date Collected: 07/22/24 11:45

Date Received: 07/25/24 09:30

Lab Sample ID: 500-253999-3

Matrix: Solid

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			779117	WRE	EET CHI	07/22/24 11:45
Total/NA	Analysis	8260D		50	779138	PMF	EET CHI	07/31/24 12:47
Total/NA	Prep	SHAKE			786241	ERR	EET SAC	07/31/24 08:44
Total/NA	Analysis	537 (modified)		1	786937	C1P	EET SAC	08/01/24 20:07

Eurofins Chicago

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Client Sample ID: WC4-7-22
Date Collected: 07/22/24 11:55
Date Received: 07/25/24 09:30

Lab Sample ID: 500-253999-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	778839	DG	EET CHI	07/29/24 12:21

Client Sample ID: WC4-7-22
Date Collected: 07/22/24 11:55
Date Received: 07/25/24 09:30

Lab Sample ID: 500-253999-4
Matrix: Solid
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			779117	WRE	EET CHI	07/22/24 11:55
Total/NA	Analysis	8260D		50	779138	PMF	EET CHI	07/31/24 13:10
Total/NA	Prep	SHAKE			786241	ERR	EET SAC	07/31/24 08:44
Total/NA	Analysis	537 (modified)		5	787120	K1S	EET SAC	08/02/24 11:39

Laboratory References:
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Address Eurofins Brookfield

640006



**Environment Testing
America**

TAL-8210

1	
2	
3	
4	

8/5/2024

Address Eurofins - Brookfield

Chain of Custody Record

640006



eurofins

Environment Testing
America

TAL-8210

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Project Manager: <u>Kirk Rathbone</u>		Site Contact: <u>Kirk R</u>		Date: <u>7/22/24</u>		COC No	
Company Name: <u>Endpoint Solutions</u>		Tel/Email: <u>Kirk Rathbone</u>		Lab Contact: <u>Sadie F</u>		Carrier: <u>Deg</u>		COCs	
Address: <u>6871 S. Lewis Lane</u>		City/State/Zip: <u>Franklin, WI 53132</u>		Phone: <u>414 427 1200</u>		Fax: <u></u>		Sampler: <u>TJA</u>	
Project Name: <u>Tyco - Eastbrook</u>		Site: <u>Shanter St</u>		PO #		Analysis Turnaround Time		For Lab Use Only:	
						☐ CALENDAR DAYS ☐ WORKING DAYS		Walk-in Client:	
						TAT if different from Below		Lab Sampling	
						☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Job / SDG No	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
WC1-7-22	7/22	11:00	C	S	3				
WC2-7-22		11:30							
WC3-7-22		11:45							
WC4-7-22		11:55							
 500-253999 Chain of Custody									
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No <u>7578932</u>		Copoly Temp (°C) Obs'd <u>0.7</u> Cor'd <u>0.7</u>		Therm ID No <u>004</u>			
Relinquished by <u>[Signature]</u>		Company: <u>Endpoint</u>		Date/Time: <u>7/24/24</u>		Received by <u>[Signature]</u>		Company: <u>Eurofins</u>	
Relinquished by <u>[Signature]</u>		Company: <u>Eurofins</u>		Date/Time: <u>7/24/24</u>		Received by <u>[Signature]</u>		Company: <u>Eurofins</u>	
Relinquished by <u>[Signature]</u>		Company: <u>Eurofins</u>		Date/Time: <u>7/24/24</u>		Received by <u>[Signature]</u>		Company: <u>Eurofins</u>	

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-253999-1

Login Number: 253999

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-253999-1

Login Number: 253999

List Number: 2

Creator: Fisher, Jamyiah L

List Source: Eurofins Sacramento

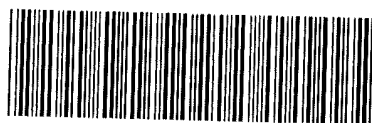
List Creation: 07/25/24 05:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2578932
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

Sacramento Sample Receiving Notes (SSRN)



500 253999 Field Sheet

Tracking # 4051 7962 3599

Job _____

SO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC

Therm. ID L016 Corr Factor (+/-) NA °C

Ice / Wet / Gel _____ Other _____

Cooler Custody Seal: 2578932

Cooler ID: _____

Temp Observed: 0.9 °C Corrected 0.9 °C
From Temp Blank ☐ Sample ☒

Opening/Processing The Shipment

Cooler compromised/tampered with? ☐ Yes ☒ No ☐ NA

Cooler Temperature is acceptable? ☒ Yes ☐ No ☐ NA

Frozen samples show signs of thaw? ☐ Yes ☐ No ☒ NA

Initials DM Date 07/25/24

Unpacking/Labeling The Samples

Containers are not broken or leaking? ☒ Yes ☐ No ☐ NA

Samples compromised/tampered with? ☐ Yes ☒ No ☐ NA

COC is complete w/o discrepancies ☒ Yes ☐ No ☐ NA

Sample custody seal? ☐ Yes ☐ No ☒ NA

Sample containers have legible labels? ☒ Yes ☐ No ☐ NA

Sample date/times are provided? ☒ Yes ☐ No ☐ NA

Appropriate containers are used? ☒ Yes ☐ No ☐ NA

Sample bottles are completely filled? ☒ Yes ☐ No ☐ NA

Sample preservatives verified? ☐ Yes ☐ No ☒ NA

Is the Field Sampler's name on COC? ☒ Yes ☐ No ☐ NA

Samples w/o discrepancies? ☒ Yes ☐ No ☐ NA

Zero headspace?* ☐ Yes ☐ No ☒ NA

Alkalinity has no headspace? ☐ Yes ☐ No ☒ NA

Perchlorate has headspace?
(Methods 314, 331, 6850) ☐ Yes ☐ No ☒ NA

Multiphasic samples are not present? ☒ Yes ☐ No ☐ NA

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials DM Date 07/25/24

Notes: _____

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion

Receipt Temperature on COC? ☒ Yes ☐ No ☐ NA

NCM Filed? ☐ Yes ☐ No ☒ NA

Samples received within hold time? ☐ Yes ☐ No ☒ NA

Log Release checked in TALS? ☐ Yes ☐ No ☒ NA

Initials DM Date 07/25/24

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-Earthwork Stanton St

Job ID: 500-253999-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	PFOS (25-150)	PFOA (25-150)
500-253999-1	WC1-7-22	82	86
500-253999-1 LMS	WC1-7-22	86	89
500-253999-1 LMSD	WC1-7-22	90	89
500-253999-2	WC2-7-22	82	87
500-253999-3	WC3-7-22	67	89
500-253999-4	WC4-7-22	82	86
LLCS 320-786241/2-A	Lab Control Sample	80	86
MB 320-786241/1-A	Method Blank	79	86
Surrogate Legend			
PFOS = 13C4 PFOS			
PFOA = 13C4 PFOA			

Attachment 6

Building 42 Paving-Related Soil Waste Characterization Laboratory Results

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kirk Kapfhammer
Endpoint Solutions Corp
6871 S. Lover's Lane
Franklin, Wisconsin 53132

Generated 11/25/2024 4:56:58 PM

JOB DESCRIPTION

TYCO Marinette WI

JOB NUMBER

500-259601-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits

- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = $3.33 \times \text{LOD}$ as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



Generated
11/25/2024 4:56:58 PM

Authorized for release by
Jodie Bracken, Project Manager I
Joann.Bracken@et.eurofinsus.com
Designee for
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Cover Page 1

Table of Contents 3

Case Narrative 4

Detection Summary 5

Method Summary 7

Sample Summary 8

Client Sample Results 9

Definitions 17

QC Association 18

Surrogate Summary 20

QC Sample Results 21

Chronicle 38

Certification Summary 39

Chain of Custody 40

Receipt Checklists 43

Isotope Dilution Summary 45



Case Narrative

Client: Endpoint Solutions Corp
Project: TYCO Marinette WI

Job ID: 500-259601-1

Job ID: 500-259601-1

Eurofins Chicago

Job Narrative 500-259601-1

Receipt

The samples were received on 11/6/2024 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method 5035: sample vial has < 8 grams of soil in 10 ml of methanol.

WC1-Grading 103024 (500-259601-1) and WC2-Grading 103024 (500-259601-2)

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-794909 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane and Hexachlorobutadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-794909 recovered outside control limits for the following analyte: tert-Butylbenzene. This analyte was biased high in the LCS and not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Methylene Chloride was detected in the following items: (MB 500-794909/7). Methylene Chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-795083 was outside the method criteria for the following analyte(s): Bromoform, Bromomethane, 1,2-Dibromo-3-Chloropropane, Dichlorodifluoromethane, Methyl tert-butyl ether, Naphthalene and trans-1,3-Dichloropropene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The method blank for analytical batch 500-795083 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The laboratory control sample (LCS) for 794692 recovered outside control limits for Benzene. This is a prepped 5035 LCS. All daily instrument LCS were acceptable, and the data have been reported.(LCS 500-794692/22-A)

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

Metals

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

LCMS

Method 1633: Analyte Perfluorobutanesulfonic acid (PFBS) was reported as non-detect for sample WC1-Grading 103024 (500-259601-1) and WC2-Grading 103024 (500-259601-2) due to a detection below LOQ and failing ion ratio.

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: WC2-Grading 103024 (500-259601-2). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 1633: The "I" qualifier means the transition mass ratio for the indicated analytes were outside of the established ratio limits. The qualitative identification of the analytes have some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. The affected sample is (LLCS 280-674735/2-A) in analytical batch (280-675289).

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

General Chemistry

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

Organic Prep

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

Eurofins Chicago

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC1-Grading 103024

Lab Sample ID: 500-259601-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.029	*+	0.025	0.012	mg/Kg	50	✱	8260D	Total/NA
Ethylbenzene	0.038		0.025	0.017	mg/Kg	50	✱	8260D	Total/NA
Naphthalene	0.12	B	0.10	0.045	mg/Kg	50	✱	8260D	Total/NA
Toluene	0.15		0.025	0.021	mg/Kg	50	✱	8260D	Total/NA
1,2,4-Trimethylbenzene	0.095	J	0.10	0.030	mg/Kg	50	✱	8260D	Total/NA
1,3,5-Trimethylbenzene	0.030	J	0.10	0.029	mg/Kg	50	✱	8260D	Total/NA
Xylenes, Total	0.26		0.051	0.024	mg/Kg	50	✱	8260D	Total/NA
Perfluorobutanoic acid (PFBA)	1.3		0.46	0.20	ug/Kg	1	✱	1633	Total/NA
Perfluoropentanoic acid (PFPeA)	8.6		0.23	0.012	ug/Kg	1	✱	1633	Total/NA
Perfluorohexanoic acid (PFHxA)	7.2		0.23	0.020	ug/Kg	1	✱	1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.7		0.23	0.027	ug/Kg	1	✱	1633	Total/NA
Perfluorooctanoic acid (PFOA)	4.7	I	0.23	0.097	ug/Kg	1	✱	1633	Total/NA
Perfluorononanoic acid (PFNA)	3.2		0.23	0.069	ug/Kg	1	✱	1633	Total/NA
Perfluorodecanoic acid (PFDA)	8.3		0.23	0.054	ug/Kg	1	✱	1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	6.7		0.23	0.038	ug/Kg	1	✱	1633	Total/NA
Perfluorododecanoic acid (PFDoA)	4.0		0.23	0.021	ug/Kg	1	✱	1633	Total/NA
Perfluorotridecanoic acid (PFTriA)	1.2		0.23	0.029	ug/Kg	1	✱	1633	Total/NA
Perfluorotetradecanoic acid (PFTeA)	1.2		0.23	0.036	ug/Kg	1	✱	1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.53		0.23	0.025	ug/Kg	1	✱	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.2		0.23	0.032	ug/Kg	1	✱	1633	Total/NA
6:2 FTS	30		0.46	0.070	ug/Kg	1	✱	1633	Total/NA
8:2 FTS	7.1		0.46	0.068	ug/Kg	1	✱	1633	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.40		0.23	0.036	ug/Kg	1	✱	1633	Total/NA
NMeFOSAA	0.49		0.23	0.057	ug/Kg	1	✱	1633	Total/NA
NMeFOSE	0.60	J	1.2	0.080	ug/Kg	1	✱	1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0		0.46	0.043	ug/Kg	1	✱	1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	18		1.2	0.12	ug/Kg	1	✱	1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.6		1.2	0.20	ug/Kg	1	✱	1633	Total/NA
Arsenic	30		1.1	0.39	mg/Kg	1	✱	6010D	Total/NA
Barium	26		1.1	0.13	mg/Kg	1	✱	6010D	Total/NA
Chromium	9.0		1.1	0.56	mg/Kg	1	✱	6010D	Total/NA
Lead	17		0.57	0.26	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.050	B	0.017	0.0072	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: WC2-Grading 103024

Lab Sample ID: 500-259601-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.022	J *+	0.024	0.012	mg/Kg	50	✱	8260D	Total/NA
Ethylbenzene	0.041		0.024	0.016	mg/Kg	50	✱	8260D	Total/NA
Naphthalene	0.16	B	0.096	0.042	mg/Kg	50	✱	8260D	Total/NA
Toluene	0.16		0.024	0.020	mg/Kg	50	✱	8260D	Total/NA
1,2,4-Trimethylbenzene	0.10		0.096	0.029	mg/Kg	50	✱	8260D	Total/NA
1,3,5-Trimethylbenzene	0.033	J	0.096	0.028	mg/Kg	50	✱	8260D	Total/NA
Xylenes, Total	0.35		0.048	0.023	mg/Kg	50	✱	8260D	Total/NA
Perfluorobutanoic acid (PFBA)	1.8		0.47	0.21	ug/Kg	1	✱	1633	Total/NA
Perfluoropentanoic acid (PFPeA)	13		0.24	0.012	ug/Kg	1	✱	1633	Total/NA
Perfluorohexanoic acid (PFHxA)	9.1		0.24	0.020	ug/Kg	1	✱	1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.0		0.24	0.028	ug/Kg	1	✱	1633	Total/NA
Perfluorooctanoic acid (PFOA)	7.8	I	0.24	0.099	ug/Kg	1	✱	1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC2-Grading 103024 (Continued)

Lab Sample ID: 500-259601-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid (PFNA)	3.8		0.24	0.070	ug/Kg	1	✱	1633	Total/NA
Perfluorodecanoic acid (PFDA)	11		0.24	0.055	ug/Kg	1	✱	1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	13		0.24	0.039	ug/Kg	1	✱	1633	Total/NA
Perfluorododecanoic acid (PFDoA)	8.6		0.24	0.021	ug/Kg	1	✱	1633	Total/NA
Perfluorotridecanoic acid (PFTriA)	2.6		0.24	0.030	ug/Kg	1	✱	1633	Total/NA
Perfluorotetradecanoic acid (PFTeA)	2.8		0.24	0.036	ug/Kg	1	✱	1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.84		0.24	0.025	ug/Kg	1	✱	1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		0.24	0.033	ug/Kg	1	✱	1633	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.15	J	0.24	0.026	ug/Kg	1	✱	1633	Total/NA
6:2 FTS	35		0.47	0.071	ug/Kg	1	✱	1633	Total/NA
8:2 FTS	9.8		0.47	0.070	ug/Kg	1	✱	1633	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.54		0.24	0.036	ug/Kg	1	✱	1633	Total/NA
NMeFOSAA	1.2		0.24	0.058	ug/Kg	1	✱	1633	Total/NA
NMeFOSE	1.8		1.2	0.082	ug/Kg	1	✱	1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.9		0.47	0.044	ug/Kg	1	✱	1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	33		1.2	0.13	ug/Kg	1	✱	1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12		1.2	0.20	ug/Kg	1	✱	1633	Total/NA
Arsenic	42		1.1	0.36	mg/Kg	1	✱	6010D	Total/NA
Barium	26		1.1	0.12	mg/Kg	1	✱	6010D	Total/NA
Chromium	10		1.1	0.52	mg/Kg	1	✱	6010D	Total/NA
Lead	17		0.53	0.24	mg/Kg	1	✱	6010D	Total/NA
Mercury	0.042	B	0.018	0.0073	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1633 Shake	Shake Extraction with SPE	EPA	EET DEN
3050B	Preparation, Metals	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-259601-1	WC1-Grading 103024	Solid	10/30/24 10:20	11/06/24 09:35
500-259601-2	WC2-Grading 103024	Solid	10/30/24 10:20	11/06/24 09:35

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC1-Grading 103024

Lab Sample ID: 500-259601-1

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 86.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.029	*+	0.025	0.012	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Bromobenzene	<0.060		0.10	0.060	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Bromochloromethane	<0.050		0.10	0.050	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Bromodichloromethane	<0.058		0.10	0.058	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Bromoform	<0.097		0.10	0.097	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Bromomethane	<0.18		0.30	0.18	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Carbon tetrachloride	<0.042		0.10	0.042	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Chlorobenzene	<0.042		0.10	0.042	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Chloroethane	<0.048		0.51	0.048	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Chloroform	<0.093		0.20	0.093	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Chloromethane	<0.080		0.51	0.080	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
2-Chlorotoluene	<0.036		0.10	0.036	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
4-Chlorotoluene	<0.035		0.10	0.035	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
cis-1,2-Dichloroethene	<0.042		0.10	0.042	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
cis-1,3-Dichloropropene	<0.052		0.10	0.052	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Chlorodibromomethane	<0.084		0.10	0.084	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,2-Dibromo-3-Chloropropane	<0.41		0.51	0.41	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,2-Dibromoethane (EDB)	<0.057		0.10	0.057	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Dibromomethane	<0.059		0.10	0.059	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,2-Dichlorobenzene	<0.048		0.10	0.048	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,3-Dichlorobenzene	<0.041		0.10	0.041	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,4-Dichlorobenzene	<0.046		0.10	0.046	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Dichlorodifluoromethane	<0.18		0.30	0.18	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,1-Dichloroethane	<0.037		0.10	0.037	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,2-Dichloroethane	<0.058		0.10	0.058	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,1-Dichloroethene	<0.048		0.10	0.048	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,2-Dichloropropane	<0.038		0.10	0.038	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,3-Dichloropropane	<0.057		0.10	0.057	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
2,2-Dichloropropane	<0.049		0.51	0.049	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,1-Dichloropropene	<0.034		0.10	0.034	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Ethylbenzene	0.038		0.025	0.017	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Hexachlorobutadiene	<0.054		0.10	0.054	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Isopropylbenzene	<0.029		0.10	0.029	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Isopropyl ether	<0.039		0.10	0.039	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Methylene Chloride	<0.22		0.51	0.22	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Methyl tert-butyl ether	<0.044		0.10	0.044	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Naphthalene	0.12	B	0.10	0.045	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
n-Butylbenzene	<0.033		0.10	0.033	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
N-Propylbenzene	<0.032		0.10	0.032	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
p-Isopropyltoluene	<0.030		0.10	0.030	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
sec-Butylbenzene	<0.027		0.10	0.027	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Styrene	<0.031		0.10	0.031	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
tert-Butylbenzene	<0.027	*+	0.10	0.027	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,1,1,2-Tetrachloroethane	<0.067		0.10	0.067	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
1,1,1,2,2-Tetrachloroethane	<0.065		0.10	0.065	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Tetrachloroethene	<0.039		0.10	0.039	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
Toluene	0.15		0.025	0.021	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
trans-1,2-Dichloroethene	<0.044		0.10	0.044	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50
trans-1,3-Dichloropropene	<0.064		0.10	0.064	mg/Kg	✧	10/30/24 10:20	11/12/24 17:18	50

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC1-Grading 103024

Lab Sample ID: 500-259601-1

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 86.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.036		0.10	0.036	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
1,2,4-Trichlorobenzene	<0.031		0.10	0.031	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
1,1,1-Trichloroethane	<0.046		0.10	0.046	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
1,1,2-Trichloroethane	<0.074		0.10	0.074	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
Trichloroethene	<0.015		0.051	0.015	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
Trichlorofluoromethane	<0.045		0.10	0.045	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
1,2,3-Trichloropropane	<0.15		0.20	0.15	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
1,2,4-Trimethylbenzene	0.095	J	0.10	0.030	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
1,3,5-Trimethylbenzene	0.030	J	0.10	0.029	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
Vinyl chloride	<0.047		0.10	0.047	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50
Xylenes, Total	0.26		0.051	0.024	mg/Kg	✱	10/30/24 10:20	11/12/24 17:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		72 - 124	10/30/24 10:20	11/12/24 17:18	50
Dibromofluoromethane (Surr)	96		75 - 120	10/30/24 10:20	11/12/24 17:18	50
1,2-Dichloroethane-d4 (Surr)	113		75 - 126	10/30/24 10:20	11/12/24 17:18	50
Toluene-d8 (Surr)	106		75 - 120	10/30/24 10:20	11/12/24 17:18	50

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.3		0.46	0.20	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluoropentanoic acid (PFPeA)	8.6		0.23	0.012	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorohexanoic acid (PFHxA)	7.2		0.23	0.020	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluoroheptanoic acid (PFHpA)	3.7		0.23	0.027	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorooctanoic acid (PFOA)	4.7	I	0.23	0.097	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorononanoic acid (PFNA)	3.2		0.23	0.069	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorodecanoic acid (PFDA)	8.3		0.23	0.054	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluoroundecanoic acid (PFUnA)	6.7		0.23	0.038	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorododecanoic acid (PFDoA)	4.0		0.23	0.021	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorotridecanoic acid (PFTriA)	1.2		0.23	0.029	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorotetradecanoic acid (PFTeA)	1.2		0.23	0.036	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorobutanesulfonic acid (PFBS)	<0.0083		0.23	0.0083	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluoropentanesulfonic acid (PFPeS)	<0.024		0.23	0.024	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.53		0.23	0.025	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.035		0.23	0.035	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorooctanesulfonic acid (PFOS)	2.2		0.23	0.032	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorononanesulfonic acid (PFNS)	<0.032		0.23	0.032	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.026		0.23	0.026	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.016		0.23	0.016	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
4:2 FTS	<0.051		0.46	0.051	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
6:2 FTS	30		0.46	0.070	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
8:2 FTS	7.1		0.46	0.068	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1
Perfluorooctanesulfonamide (FOSA)	0.40		0.23	0.036	ug/Kg	✱	11/13/24 09:15	11/15/24 20:56	1

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC1-Grading 103024

Lab Sample ID: 500-259601-1

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 86.6

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSA	<0.029		0.23	0.029	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
NEtFOSA	<0.071		0.23	0.071	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
NMeFOSAA	0.49		0.23	0.057	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
NEtFOSAA	<0.055		0.23	0.055	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
NMeFOSE	0.60	J	1.2	0.080	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
NEtFOSE	<0.14		1.2	0.14	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
HFPO-DA (GenX)	<0.031		0.23	0.031	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.011		0.23	0.011	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.015		0.23	0.015	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.042		0.23	0.042	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0072		0.23	0.0072	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
F-53B Major	<0.023		0.23	0.023	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
F-53B Minor	<0.024		0.23	0.024	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.023		0.23	0.023	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.0		0.46	0.043	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	18		1.2	0.12	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.6		1.2	0.20	ug/Kg	☆	11/13/24 09:15	11/15/24 20:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	88.3		8 - 130	11/13/24 09:15	11/15/24 20:56	1
13C5 PFPeA	94.0		35 - 130	11/13/24 09:15	11/15/24 20:56	1
13C5 PFHxA	87.7		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C4 PFHpA	96.4		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C8 PFOA	94.3		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C9 PFNA	95.2		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C6 PFDA	87.2		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C7 PFUnA	85.6		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C2 PFDoA	80.2		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C2 PFTeDA	86.0		20 - 130	11/13/24 09:15	11/15/24 20:56	1
13C3 PFBS	86.7		40 - 135	11/13/24 09:15	11/15/24 20:56	1
13C3 PFHxS	92.0		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C8 PFOS	81.3		40 - 130	11/13/24 09:15	11/15/24 20:56	1
13C8 FOSA	73.5		40 - 130	11/13/24 09:15	11/15/24 20:56	1
d3-NMeFOSAA	81.6		40 - 135	11/13/24 09:15	11/15/24 20:56	1
d5-NEtFOSAA	80.9		40 - 150	11/13/24 09:15	11/15/24 20:56	1
M2-4:2 FTS	118		40 - 165	11/13/24 09:15	11/15/24 20:56	1
M2-6:2 FTS	109		40 - 215	11/13/24 09:15	11/15/24 20:56	1
M2-8:2 FTS	115		40 - 275	11/13/24 09:15	11/15/24 20:56	1
13C3 HFPO-DA	86.9		40 - 130	11/13/24 09:15	11/15/24 20:56	1
d7-N-MeFOSE-M	59.5		20 - 130	11/13/24 09:15	11/15/24 20:56	1
d9-N-EtFOSE-M	54.4		15 - 130	11/13/24 09:15	11/15/24 20:56	1
d5-NEtPFOSA	58.2		10 - 130	11/13/24 09:15	11/15/24 20:56	1
d3-NMePFOSA	58.8		10 - 130	11/13/24 09:15	11/15/24 20:56	1

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC1-Grading 103024

Lab Sample ID: 500-259601-1

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 86.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	30		1.1	0.39	mg/Kg	✱	11/19/24 09:41	11/21/24 01:39	1
Barium	26		1.1	0.13	mg/Kg	✱	11/19/24 09:41	11/21/24 01:39	1
Cadmium	<0.041		0.23	0.041	mg/Kg	✱	11/19/24 09:41	11/21/24 01:39	1
Chromium	9.0		1.1	0.56	mg/Kg	✱	11/19/24 09:41	11/21/24 01:39	1
Lead	17		0.57	0.26	mg/Kg	✱	11/19/24 09:41	11/21/24 01:39	1
Selenium	<0.66		1.1	0.66	mg/Kg	✱	11/19/24 09:41	11/21/24 01:39	1
Silver	<0.15		0.57	0.15	mg/Kg	✱	11/19/24 09:41	11/21/24 01:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.050	B	0.017	0.0072	mg/Kg	✱	11/22/24 11:30	11/22/24 17:37	1

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC2-Grading 103024

Lab Sample ID: 500-259601-2

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.022	J**	0.024	0.012	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Bromobenzene	<0.057		0.096	0.057	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Bromochloromethane	<0.048		0.096	0.048	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Bromodichloromethane	<0.055		0.096	0.055	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Bromoform	<0.092		0.096	0.092	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Bromomethane	<0.17		0.29	0.17	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Carbon tetrachloride	<0.040		0.096	0.040	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Chlorobenzene	<0.039		0.096	0.039	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Chloroethane	<0.045		0.48	0.045	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Chloroform	<0.088		0.19	0.088	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Chloromethane	<0.075		0.48	0.075	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
2-Chlorotoluene	<0.034		0.096	0.034	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
4-Chlorotoluene	<0.033		0.096	0.033	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
cis-1,2-Dichloroethene	<0.040		0.096	0.040	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
cis-1,3-Dichloropropene	<0.050		0.096	0.050	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Chlorodibromomethane	<0.079		0.096	0.079	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,2-Dibromo-3-Chloropropane	<0.39		0.48	0.39	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,2-Dibromoethane (EDB)	<0.054		0.096	0.054	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Dibromomethane	<0.056		0.096	0.056	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,2-Dichlorobenzene	<0.046		0.096	0.046	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,3-Dichlorobenzene	<0.039		0.096	0.039	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,4-Dichlorobenzene	<0.044		0.096	0.044	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Dichlorodifluoromethane	<0.17		0.29	0.17	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,1-Dichloroethane	<0.035		0.096	0.035	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,2-Dichloroethane	<0.055		0.096	0.055	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,1-Dichloroethene	<0.046		0.096	0.046	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,2-Dichloropropane	<0.036		0.096	0.036	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,3-Dichloropropane	<0.054		0.096	0.054	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
2,2-Dichloropropane	<0.046		0.48	0.046	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,1-Dichloropropene	<0.032		0.096	0.032	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Ethylbenzene	0.041		0.024	0.016	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Hexachlorobutadiene	<0.052		0.096	0.052	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Isopropylbenzene	<0.028		0.096	0.028	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Isopropyl ether	<0.037		0.096	0.037	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Methylene Chloride	<0.21		0.48	0.21	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Methyl tert-butyl ether	<0.041		0.096	0.041	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Naphthalene	0.16	B	0.096	0.042	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
n-Butylbenzene	<0.031		0.096	0.031	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
N-Propylbenzene	<0.031		0.096	0.031	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
p-Isopropyltoluene	<0.028		0.096	0.028	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
sec-Butylbenzene	<0.026		0.096	0.026	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Styrene	<0.029		0.096	0.029	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
tert-Butylbenzene	<0.025	*+	0.096	0.025	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,1,1,2-Tetrachloroethane	<0.064		0.096	0.064	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
1,1,1,2,2-Tetrachloroethane	<0.062		0.096	0.062	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Tetrachloroethene	<0.037		0.096	0.037	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
Toluene	0.16		0.024	0.020	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
trans-1,2-Dichloroethene	<0.042		0.096	0.042	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50
trans-1,3-Dichloropropene	<0.061		0.096	0.061	mg/Kg	☆	10/30/24 10:20	11/12/24 17:43	50

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC2-Grading 103024

Lab Sample ID: 500-259601-2

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 85.0

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.034		0.096	0.034	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
1,2,4-Trichlorobenzene	<0.030		0.096	0.030	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
1,1,1-Trichloroethane	<0.043		0.096	0.043	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
1,1,2-Trichloroethane	<0.070		0.096	0.070	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
Trichloroethene	<0.014		0.048	0.014	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
Trichlorofluoromethane	<0.042		0.096	0.042	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
1,2,3-Trichloropropane	<0.14		0.19	0.14	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
1,2,4-Trimethylbenzene	0.10		0.096	0.029	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
1,3,5-Trimethylbenzene	0.033	J	0.096	0.028	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
Vinyl chloride	<0.045		0.096	0.045	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50
Xylenes, Total	0.35		0.048	0.023	mg/Kg	✧	10/30/24 10:20	11/12/24 17:43	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124	10/30/24 10:20	11/12/24 17:43	50
Dibromofluoromethane (Surr)	96		75 - 120	10/30/24 10:20	11/12/24 17:43	50
1,2-Dichloroethane-d4 (Surr)	112		75 - 126	10/30/24 10:20	11/12/24 17:43	50
Toluene-d8 (Surr)	109		75 - 120	10/30/24 10:20	11/12/24 17:43	50

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.8		0.47	0.21	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluoropentanoic acid (PFPeA)	13		0.24	0.012	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorohexanoic acid (PFHxA)	9.1		0.24	0.020	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluoroheptanoic acid (PFHpA)	5.0		0.24	0.028	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorooctanoic acid (PFOA)	7.8	I	0.24	0.099	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorononanoic acid (PFNA)	3.8		0.24	0.070	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorodecanoic acid (PFDA)	11		0.24	0.055	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluoroundecanoic acid (PFUnA)	13		0.24	0.039	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorododecanoic acid (PFDoA)	8.6		0.24	0.021	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorotridecanoic acid (PFTriA)	2.6		0.24	0.030	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorotetradecanoic acid (PFTeA)	2.8		0.24	0.036	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorobutanesulfonic acid (PFBS)	<0.0084		0.24	0.0084	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.024		0.24	0.024	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorohexanesulfonic acid (PFHxS)	0.84		0.24	0.025	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.036		0.24	0.036	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorooctanesulfonic acid (PFOS)	2.8		0.24	0.033	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorononanesulfonic acid (PFNS)	<0.032		0.24	0.032	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorodecanesulfonic acid (PFDS)	0.15	J	0.24	0.026	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.017		0.24	0.017	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
4:2 FTS	<0.052		0.47	0.052	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
6:2 FTS	35		0.47	0.071	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1
8:2 FTS	9.8		0.47	0.070	ug/Kg	✧	11/13/24 09:15	11/15/24 21:15	1

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC2-Grading 103024

Lab Sample ID: 500-259601-2

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 85.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	0.54		0.24	0.036	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
NMeFOSA	<0.030		0.24	0.030	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
NEtFOSA	<0.073		0.24	0.073	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
NMeFOSAA	1.2		0.24	0.058	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
NEtFOSAA	<0.056		0.24	0.056	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
NMeFOSE	1.8		1.2	0.082	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
NEtFOSE	<0.14		1.2	0.14	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
HFPO-DA (GenX)	<0.031		0.24	0.031	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.011		0.24	0.011	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.015		0.24	0.015	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.042		0.24	0.042	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0073		0.24	0.0073	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
F-53B Major	<0.023		0.24	0.023	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
F-53B Minor	<0.024		0.24	0.024	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.023		0.24	0.023	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.9		0.47	0.044	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	33		1.2	0.13	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	12		1.2	0.20	ug/Kg	☼	11/13/24 09:15	11/15/24 21:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	121		8 - 130	11/13/24 09:15	11/15/24 21:15	1
13C5 PFPeA	112		35 - 130	11/13/24 09:15	11/15/24 21:15	1
13C5 PFHxA	120		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C4 PFHpA	130		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C8 PFOA	114		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C9 PFNA	119		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C6 PFDA	116		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C7 PFUnA	108		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C2 PFDoA	97.8		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C2 PFTeDA	134	*5+	20 - 130	11/13/24 09:15	11/15/24 21:15	1
13C3 PFBS	117		40 - 135	11/13/24 09:15	11/15/24 21:15	1
13C3 PFHxS	126		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C8 PFOS	96.0		40 - 130	11/13/24 09:15	11/15/24 21:15	1
13C8 FOSA	94.8		40 - 130	11/13/24 09:15	11/15/24 21:15	1
d3-NMeFOSAA	108		40 - 135	11/13/24 09:15	11/15/24 21:15	1
d5-NEtFOSAA	106		40 - 150	11/13/24 09:15	11/15/24 21:15	1
M2-4:2 FTS	208	*5+	40 - 165	11/13/24 09:15	11/15/24 21:15	1
M2-6:2 FTS	184		40 - 215	11/13/24 09:15	11/15/24 21:15	1
M2-8:2 FTS	190		40 - 275	11/13/24 09:15	11/15/24 21:15	1
13C3 HFPO-DA	119		40 - 130	11/13/24 09:15	11/15/24 21:15	1
d7-N-MeFOSE-M	77.7		20 - 130	11/13/24 09:15	11/15/24 21:15	1
d9-N-EtFOSE-M	69.3		15 - 130	11/13/24 09:15	11/15/24 21:15	1
d5-NEtPFOSA	72.6		10 - 130	11/13/24 09:15	11/15/24 21:15	1

Eurofins Chicago

Client Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC2-Grading 103024

Lab Sample ID: 500-259601-2

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 85.0

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	74.6		10 - 130	11/13/24 09:15	11/15/24 21:15	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	42		1.1	0.36	mg/Kg	✧	11/19/24 09:41	11/21/24 01:44	1
Barium	26		1.1	0.12	mg/Kg	✧	11/19/24 09:41	11/21/24 01:44	1
Cadmium	<0.038		0.21	0.038	mg/Kg	✧	11/19/24 09:41	11/21/24 01:44	1
Chromium	10		1.1	0.52	mg/Kg	✧	11/19/24 09:41	11/21/24 01:44	1
Lead	17		0.53	0.24	mg/Kg	✧	11/19/24 09:41	11/21/24 01:44	1
Selenium	<0.62		1.1	0.62	mg/Kg	✧	11/19/24 09:41	11/21/24 01:44	1
Silver	<0.14		0.53	0.14	mg/Kg	✧	11/19/24 09:41	11/21/24 01:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042	B	0.018	0.0073	mg/Kg	✧	11/22/24 11:30	11/22/24 17:38	1

Definitions/Glossary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

GC/MS VOA

Prep Batch: 794692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	5035	
500-259601-2	WC2-Grading 103024	Total/NA	Solid	5035	
LB3 500-794692/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-794692/22-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 794909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	8260D	794692
500-259601-2	WC2-Grading 103024	Total/NA	Solid	8260D	794692
MB 500-794909/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-794909/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 795083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-794692/21-A	Method Blank	Total/NA	Solid	8260D	794692
MB 500-795083/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-794692/22-A	Lab Control Sample	Total/NA	Solid	8260D	794692
LCS 500-795083/4	Lab Control Sample	Total/NA	Solid	8260D	

LCMS

Prep Batch: 674735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	1633 Shake	
500-259601-2	WC2-Grading 103024	Total/NA	Solid	1633 Shake	
MB 280-674735/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 280-674735/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LCSD 280-674735/4-A	Lab Control Sample Dup	Total/NA	Solid	1633 Shake	
LLCS 280-674735/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 675289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	1633	674735
500-259601-2	WC2-Grading 103024	Total/NA	Solid	1633	674735
MB 280-674735/1-A	Method Blank	Total/NA	Solid	1633	674735
LCS 280-674735/3-A	Lab Control Sample	Total/NA	Solid	1633	674735
LCSD 280-674735/4-A	Lab Control Sample Dup	Total/NA	Solid	1633	674735
LLCS 280-674735/2-A	Lab Control Sample	Total/NA	Solid	1633	674735

Metals

Prep Batch: 796011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	3050B	
500-259601-2	WC2-Grading 103024	Total/NA	Solid	3050B	
MB 500-796011/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-796011/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 796408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	6010D	796011
500-259601-2	WC2-Grading 103024	Total/NA	Solid	6010D	796011

Eurofins Chicago

QC Association Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Metals (Continued)

Analysis Batch: 796408 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-796011/1-A	Method Blank	Total/NA	Solid	6010D	796011
LCS 500-796011/2-A	Lab Control Sample	Total/NA	Solid	6010D	796011

Prep Batch: 796518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	7471B	
500-259601-2	WC2-Grading 103024	Total/NA	Solid	7471B	
MB 500-796518/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-796518/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 796704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-796518/12-A	Method Blank	Total/NA	Solid	7471B	796518
LCS 500-796518/13-A	Lab Control Sample	Total/NA	Solid	7471B	796518

Analysis Batch: 796785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	7471B	796518
500-259601-2	WC2-Grading 103024	Total/NA	Solid	7471B	796518

General Chemistry

Analysis Batch: 795412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259601-1	WC1-Grading 103024	Total/NA	Solid	Moisture	
500-259601-2	WC2-Grading 103024	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-259601-1	WC1-Grading 103024	102	96	113	106
500-259601-2	WC2-Grading 103024	98	96	112	109
LB3 500-794692/21-A	Method Blank	86	92	89	89
LCS 500-794692/22-A	Lab Control Sample	84	88	86	89
LCS 500-794909/4	Lab Control Sample	105	96	106	109
LCS 500-795083/4	Lab Control Sample	83	89	82	89
MB 500-794909/7	Method Blank	106	97	111	108
MB 500-795083/7	Method Blank	85	95	90	89
Surrogate Legend					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
DCA = 1,2-Dichloroethane-d4 (Surr)					
TOL = Toluene-d8 (Surr)					

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 500-794692/21-A

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 794692

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0061		0.013	0.0061	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Bromobenzene	<0.030		0.050	0.030	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Bromochloromethane	<0.025		0.050	0.025	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Bromodichloromethane	<0.028		0.050	0.028	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Bromoform	<0.048		0.050	0.048	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Bromomethane	<0.090		0.15	0.090	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Carbon tetrachloride	<0.021		0.050	0.021	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Chlorobenzene	<0.021		0.050	0.021	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Chloroethane	<0.024		0.25	0.024	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Chloroform	<0.046		0.10	0.046	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Chloromethane	<0.039		0.25	0.039	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
2-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
4-Chlorotoluene	<0.017		0.050	0.017	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
cis-1,2-Dichloroethene	<0.021		0.050	0.021	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
cis-1,3-Dichloropropene	<0.026		0.050	0.026	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Chlorodibromomethane	<0.041		0.050	0.041	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2-Dibromo-3-Chloropropane	<0.20		0.25	0.20	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2-Dibromoethane (EDB)	<0.028		0.050	0.028	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Dibromomethane	<0.029		0.050	0.029	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2-Dichlorobenzene	<0.024		0.050	0.024	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,4-Dichlorobenzene	<0.023		0.050	0.023	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Dichlorodifluoromethane	<0.088		0.15	0.088	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,1-Dichloroethane	<0.018		0.050	0.018	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2-Dichloroethane	<0.029		0.050	0.029	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,1-Dichloroethene	<0.024		0.050	0.024	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2-Dichloropropane	<0.019		0.050	0.019	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,3-Dichloropropane	<0.028		0.050	0.028	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
2,2-Dichloropropane	<0.024		0.25	0.024	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,1-Dichloropropene	<0.017		0.050	0.017	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Ethylbenzene	<0.0086		0.013	0.0086	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Hexachlorobutadiene	<0.027		0.050	0.027	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Isopropylbenzene	<0.015		0.050	0.015	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Isopropyl ether	<0.019		0.050	0.019	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Methylene Chloride	<0.11		0.25	0.11	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Methyl tert-butyl ether	<0.022		0.050	0.022	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Naphthalene	0.0373	J	0.050	0.022	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
n-Butylbenzene	<0.016		0.050	0.016	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
N-Propylbenzene	<0.016		0.050	0.016	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
p-Isopropyltoluene	<0.015		0.050	0.015	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
sec-Butylbenzene	<0.014		0.050	0.014	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Styrene	<0.015		0.050	0.015	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
tert-Butylbenzene	<0.013		0.050	0.013	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,1,1,2-Tetrachloroethane	<0.033		0.050	0.033	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,1,2,2-Tetrachloroethane	<0.032		0.050	0.032	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Toluene	<0.011		0.013	0.011	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
trans-1,2-Dichloroethene	<0.022		0.050	0.022	mg/Kg		11/11/24 03:00	11/13/24 12:18	50

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 500-794692/21-A

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 794692

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.032		0.050	0.032	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2,3-Trichlorobenzene	<0.018		0.050	0.018	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2,4-Trichlorobenzene	<0.015		0.050	0.015	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,1,1-Trichloroethane	<0.023		0.050	0.023	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,1,2-Trichloroethane	<0.037		0.050	0.037	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Trichloroethene	<0.0074		0.025	0.0074	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Trichlorofluoromethane	<0.022		0.050	0.022	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2,3-Trichloropropane	<0.075		0.10	0.075	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,2,4-Trimethylbenzene	<0.015		0.050	0.015	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
1,3,5-Trimethylbenzene	<0.014		0.050	0.014	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Vinyl chloride	<0.023		0.050	0.023	mg/Kg		11/11/24 03:00	11/13/24 12:18	50
Xylenes, Total	<0.012		0.025	0.012	mg/Kg		11/11/24 03:00	11/13/24 12:18	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		72 - 124	11/11/24 03:00	11/13/24 12:18	50
Dibromofluoromethane (Surr)	92		75 - 120	11/11/24 03:00	11/13/24 12:18	50
1,2-Dichloroethane-d4 (Surr)	89		75 - 126	11/11/24 03:00	11/13/24 12:18	50
Toluene-d8 (Surr)	89		75 - 120	11/11/24 03:00	11/13/24 12:18	50

Lab Sample ID: LCS 500-794692/22-A

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 794692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	3.06	*+	mg/Kg		122	70 - 120
Bromobenzene	2.50	2.78		mg/Kg		111	70 - 122
Bromochloromethane	2.50	2.85		mg/Kg		114	65 - 122
Bromodichloromethane	2.50	2.87		mg/Kg		115	69 - 120
Bromoform	2.50	2.51		mg/Kg		100	56 - 132
Bromomethane	2.50	2.54		mg/Kg		102	40 - 152
Carbon tetrachloride	2.50	2.92		mg/Kg		117	59 - 133
Chlorobenzene	2.50	2.86		mg/Kg		114	70 - 120
Chloroethane	2.50	2.03		mg/Kg		81	48 - 136
Chloroform	2.50	2.85		mg/Kg		114	70 - 120
Chloromethane	2.50	2.20		mg/Kg		88	56 - 152
2-Chlorotoluene	2.50	2.72		mg/Kg		109	70 - 125
4-Chlorotoluene	2.50	2.78		mg/Kg		111	68 - 124
cis-1,2-Dichloroethene	2.50	2.80		mg/Kg		112	70 - 125
cis-1,3-Dichloropropene	2.50	2.49		mg/Kg		100	64 - 127
Chlorodibromomethane	2.50	2.58		mg/Kg		103	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	2.67		mg/Kg		107	56 - 123
1,2-Dibromoethane (EDB)	2.50	2.97		mg/Kg		119	70 - 125
Dibromomethane	2.50	2.89		mg/Kg		116	70 - 120
1,2-Dichlorobenzene	2.50	2.78		mg/Kg		111	70 - 125
1,3-Dichlorobenzene	2.50	2.75		mg/Kg		110	70 - 125
1,4-Dichlorobenzene	2.50	2.76		mg/Kg		110	70 - 120
Dichlorodifluoromethane	2.50	1.30		mg/Kg		52	40 - 159
1,1-Dichloroethane	2.50	3.00		mg/Kg		120	70 - 125

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-794692/22-A

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 794692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	2.50	3.06		mg/Kg		122	68 - 127
1,1-Dichloroethene	2.50	2.76		mg/Kg		111	67 - 122
1,2-Dichloropropane	2.50	3.02		mg/Kg		121	67 - 130
1,3-Dichloropropane	2.50	2.95		mg/Kg		118	62 - 136
2,2-Dichloropropane	2.50	2.44		mg/Kg		98	58 - 139
1,1-Dichloropropene	2.50	2.72		mg/Kg		109	70 - 121
Ethylbenzene	2.50	2.72		mg/Kg		109	70 - 123
Hexachlorobutadiene	2.50	2.79		mg/Kg		112	51 - 150
Isopropylbenzene	2.50	2.64		mg/Kg		105	70 - 126
Methylene Chloride	2.50	2.65		mg/Kg		106	69 - 125
Methyl tert-butyl ether	2.50	2.48		mg/Kg		99	55 - 123
Naphthalene	2.50	2.59		mg/Kg		104	53 - 144
n-Butylbenzene	2.50	2.81		mg/Kg		113	68 - 125
N-Propylbenzene	2.50	2.74		mg/Kg		110	69 - 127
p-Isopropyltoluene	2.50	2.57		mg/Kg		103	70 - 125
sec-Butylbenzene	2.50	2.90		mg/Kg		116	70 - 123
Styrene	2.50	2.66		mg/Kg		106	70 - 120
tert-Butylbenzene	2.50	2.81		mg/Kg		112	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.89		mg/Kg		115	70 - 125
1,1,2,2-Tetrachloroethane	2.50	2.98		mg/Kg		119	62 - 140
Tetrachloroethene	2.50	2.82		mg/Kg		113	70 - 128
Toluene	2.50	2.73		mg/Kg		109	70 - 125
trans-1,2-Dichloroethene	2.50	2.85		mg/Kg		114	70 - 125
trans-1,3-Dichloropropene	2.50	2.43		mg/Kg		97	62 - 128
1,2,3-Trichlorobenzene	2.50	2.72		mg/Kg		109	51 - 145
1,2,4-Trichlorobenzene	2.50	2.66		mg/Kg		106	57 - 137
1,1,1-Trichloroethane	2.50	2.89		mg/Kg		116	70 - 125
1,1,2-Trichloroethane	2.50	2.53		mg/Kg		101	71 - 130
Trichloroethene	2.50	3.04		mg/Kg		122	70 - 125
Trichlorofluoromethane	2.50	2.75		mg/Kg		110	55 - 128
1,2,3-Trichloropropane	2.50	2.87		mg/Kg		115	50 - 133
1,2,4-Trimethylbenzene	2.50	2.82		mg/Kg		113	70 - 123
1,3,5-Trimethylbenzene	2.50	2.84		mg/Kg		113	70 - 123
Vinyl chloride	2.50	2.13		mg/Kg		85	64 - 126
Xylenes, Total	5.00	5.68		mg/Kg		114	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		72 - 124
Dibromofluoromethane (Surr)	88		75 - 120
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
Toluene-d8 (Surr)	89		75 - 120

Lab Sample ID: MB 500-794909/7

Matrix: Solid

Analysis Batch: 794909

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00012		0.00025	0.00012	mg/Kg			11/12/24 10:41	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-794909/7

Matrix: Solid

Analysis Batch: 794909

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.00060		0.0010	0.00060	mg/Kg			11/12/24 10:41	1
Bromochloromethane	<0.00050		0.0010	0.00050	mg/Kg			11/12/24 10:41	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			11/12/24 10:41	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			11/12/24 10:41	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			11/12/24 10:41	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			11/12/24 10:41	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			11/12/24 10:41	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			11/12/24 10:41	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			11/12/24 10:41	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			11/12/24 10:41	1
2-Chlorotoluene	<0.00036		0.0010	0.00036	mg/Kg			11/12/24 10:41	1
4-Chlorotoluene	<0.00034		0.0010	0.00034	mg/Kg			11/12/24 10:41	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			11/12/24 10:41	1
cis-1,3-Dichloropropene	<0.00052		0.0010	0.00052	mg/Kg			11/12/24 10:41	1
Chlorodibromomethane	<0.00083		0.0010	0.00083	mg/Kg			11/12/24 10:41	1
1,2-Dibromo-3-Chloropropane	<0.0041		0.0050	0.0041	mg/Kg			11/12/24 10:41	1
1,2-Dibromoethane (EDB)	<0.00056		0.0010	0.00056	mg/Kg			11/12/24 10:41	1
Dibromomethane	<0.00058		0.0010	0.00058	mg/Kg			11/12/24 10:41	1
1,2-Dichlorobenzene	<0.00048		0.0010	0.00048	mg/Kg			11/12/24 10:41	1
1,3-Dichlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			11/12/24 10:41	1
1,4-Dichlorobenzene	<0.00045		0.0010	0.00045	mg/Kg			11/12/24 10:41	1
Dichlorodifluoromethane	<0.0018		0.0030	0.0018	mg/Kg			11/12/24 10:41	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			11/12/24 10:41	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			11/12/24 10:41	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			11/12/24 10:41	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			11/12/24 10:41	1
1,3-Dichloropropane	<0.00056		0.0010	0.00056	mg/Kg			11/12/24 10:41	1
2,2-Dichloropropane	<0.00048		0.0050	0.00048	mg/Kg			11/12/24 10:41	1
1,1-Dichloropropene	<0.00033		0.0010	0.00033	mg/Kg			11/12/24 10:41	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			11/12/24 10:41	1
Hexachlorobutadiene	<0.00054		0.0010	0.00054	mg/Kg			11/12/24 10:41	1
Isopropylbenzene	<0.00029		0.0010	0.00029	mg/Kg			11/12/24 10:41	1
Isopropyl ether	<0.00038		0.0010	0.00038	mg/Kg			11/12/24 10:41	1
Methylene Chloride	0.00243 J		0.0050	0.0021	mg/Kg			11/12/24 10:41	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			11/12/24 10:41	1
Naphthalene	<0.00044		0.0010	0.00044	mg/Kg			11/12/24 10:41	1
n-Butylbenzene	<0.00033		0.0010	0.00033	mg/Kg			11/12/24 10:41	1
N-Propylbenzene	<0.00032		0.0010	0.00032	mg/Kg			11/12/24 10:41	1
p-Isopropyltoluene	<0.00029		0.0010	0.00029	mg/Kg			11/12/24 10:41	1
sec-Butylbenzene	<0.00027		0.0010	0.00027	mg/Kg			11/12/24 10:41	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			11/12/24 10:41	1
tert-Butylbenzene	<0.00026		0.0010	0.00026	mg/Kg			11/12/24 10:41	1
1,1,1,2-Tetrachloroethane	<0.00067		0.0010	0.00067	mg/Kg			11/12/24 10:41	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			11/12/24 10:41	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			11/12/24 10:41	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			11/12/24 10:41	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			11/12/24 10:41	1
trans-1,3-Dichloropropene	<0.00063		0.0010	0.00063	mg/Kg			11/12/24 10:41	1
1,2,3-Trichlorobenzene	<0.00035		0.0010	0.00035	mg/Kg			11/12/24 10:41	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-794909/7

Matrix: Solid

Analysis Batch: 794909

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.00031		0.0010	0.00031	mg/Kg			11/12/24 10:41	1
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			11/12/24 10:41	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			11/12/24 10:41	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			11/12/24 10:41	1
Trichlorofluoromethane	<0.00044		0.0010	0.00044	mg/Kg			11/12/24 10:41	1
1,2,3-Trichloropropane	<0.0015		0.0020	0.0015	mg/Kg			11/12/24 10:41	1
1,2,4-Trimethylbenzene	<0.00030		0.0010	0.00030	mg/Kg			11/12/24 10:41	1
1,3,5-Trimethylbenzene	<0.00029		0.0010	0.00029	mg/Kg			11/12/24 10:41	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			11/12/24 10:41	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			11/12/24 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		72 - 124		11/12/24 10:41	1
Dibromofluoromethane (Surr)	97		75 - 120		11/12/24 10:41	1
1,2-Dichloroethane-d4 (Surr)	111		75 - 126		11/12/24 10:41	1
Toluene-d8 (Surr)	108		75 - 120		11/12/24 10:41	1

Lab Sample ID: LCS 500-794909/4

Matrix: Solid

Analysis Batch: 794909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0526		mg/Kg		105	70 - 120
Bromobenzene	0.0500	0.0606		mg/Kg		121	70 - 122
Bromochloromethane	0.0500	0.0505		mg/Kg		101	65 - 122
Bromodichloromethane	0.0500	0.0557		mg/Kg		111	69 - 120
Bromoform	0.0500	0.0450		mg/Kg		90	56 - 132
Bromomethane	0.0500	0.0588		mg/Kg		118	40 - 152
Carbon tetrachloride	0.0500	0.0582		mg/Kg		116	59 - 133
Chlorobenzene	0.0500	0.0588		mg/Kg		118	70 - 120
Chloroethane	0.0500	0.0546		mg/Kg		109	48 - 136
Chloroform	0.0500	0.0487		mg/Kg		97	70 - 120
Chloromethane	0.0500	0.0494		mg/Kg		99	56 - 152
2-Chlorotoluene	0.0500	0.0596		mg/Kg		119	70 - 125
4-Chlorotoluene	0.0500	0.0590		mg/Kg		118	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0516		mg/Kg		103	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0584		mg/Kg		117	64 - 127
Chlorodibromomethane	0.0500	0.0503		mg/Kg		101	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0381		mg/Kg		76	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0498		mg/Kg		100	70 - 125
Dibromomethane	0.0500	0.0518		mg/Kg		104	70 - 120
1,2-Dichlorobenzene	0.0500	0.0556		mg/Kg		111	70 - 125
1,3-Dichlorobenzene	0.0500	0.0583		mg/Kg		117	70 - 125
1,4-Dichlorobenzene	0.0500	0.0549		mg/Kg		110	70 - 120
Dichlorodifluoromethane	0.0500	0.0650		mg/Kg		130	40 - 159
1,1-Dichloroethane	0.0500	0.0524		mg/Kg		105	70 - 125
1,2-Dichloroethane	0.0500	0.0594		mg/Kg		119	68 - 127
1,1-Dichloroethene	0.0500	0.0562		mg/Kg		112	67 - 122

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-794909/4

Matrix: Solid

Analysis Batch: 794909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0526		mg/Kg		105	67 - 130
1,3-Dichloropropane	0.0500	0.0551		mg/Kg		110	62 - 136
2,2-Dichloropropane	0.0500	0.0617		mg/Kg		123	58 - 139
1,1-Dichloropropene	0.0500	0.0586		mg/Kg		117	70 - 121
Ethylbenzene	0.0500	0.0582		mg/Kg		116	70 - 123
Hexachlorobutadiene	0.0500	0.0602		mg/Kg		120	51 - 150
Isopropylbenzene	0.0500	0.0587		mg/Kg		117	70 - 126
Methylene Chloride	0.0500	0.0505		mg/Kg		101	69 - 125
Methyl tert-butyl ether	0.0500	0.0501		mg/Kg		100	55 - 123
Naphthalene	0.0500	0.0426		mg/Kg		85	53 - 144
n-Butylbenzene	0.0500	0.0597		mg/Kg		119	68 - 125
N-Propylbenzene	0.0500	0.0614		mg/Kg		123	69 - 127
p-Isopropyltoluene	0.0500	0.0592		mg/Kg		118	70 - 125
sec-Butylbenzene	0.0500	0.0601		mg/Kg		120	70 - 123
Styrene	0.0500	0.0564		mg/Kg		113	70 - 120
tert-Butylbenzene	0.0500	0.0614	*+	mg/Kg		123	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0542		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0482		mg/Kg		96	62 - 140
Tetrachloroethene	0.0500	0.0618		mg/Kg		124	70 - 128
Toluene	0.0500	0.0576		mg/Kg		115	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0539		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0545		mg/Kg		109	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0557		mg/Kg		111	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0568		mg/Kg		114	57 - 137
1,1,1-Trichloroethane	0.0500	0.0608		mg/Kg		122	70 - 125
1,1,2-Trichloroethane	0.0500	0.0513		mg/Kg		103	71 - 130
Trichloroethene	0.0500	0.0568		mg/Kg		114	70 - 125
Trichlorofluoromethane	0.0500	0.0561		mg/Kg		112	55 - 128
1,2,3-Trichloropropane	0.0500	0.0499		mg/Kg		100	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0582		mg/Kg		116	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0606		mg/Kg		121	70 - 123
Vinyl chloride	0.0500	0.0524		mg/Kg		105	64 - 126
Xylenes, Total	0.100	0.111		mg/Kg		111	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		72 - 124
Dibromofluoromethane (Surr)	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	106		75 - 126
Toluene-d8 (Surr)	109		75 - 120

Lab Sample ID: MB 500-795083/7

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00012		0.00025	0.00012	mg/Kg			11/13/24 11:26	1
Bromobenzene	<0.00060		0.0010	0.00060	mg/Kg			11/13/24 11:26	1
Bromochloromethane	<0.00050		0.0010	0.00050	mg/Kg			11/13/24 11:26	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-795083/7

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			11/13/24 11:26	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			11/13/24 11:26	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			11/13/24 11:26	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			11/13/24 11:26	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			11/13/24 11:26	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			11/13/24 11:26	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			11/13/24 11:26	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			11/13/24 11:26	1
2-Chlorotoluene	<0.00036		0.0010	0.00036	mg/Kg			11/13/24 11:26	1
4-Chlorotoluene	<0.00034		0.0010	0.00034	mg/Kg			11/13/24 11:26	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			11/13/24 11:26	1
cis-1,3-Dichloropropene	<0.00052		0.0010	0.00052	mg/Kg			11/13/24 11:26	1
Chlorodibromomethane	<0.00083		0.0010	0.00083	mg/Kg			11/13/24 11:26	1
1,2-Dibromo-3-Chloropropane	<0.0041		0.0050	0.0041	mg/Kg			11/13/24 11:26	1
1,2-Dibromoethane (EDB)	<0.00056		0.0010	0.00056	mg/Kg			11/13/24 11:26	1
Dibromomethane	<0.00058		0.0010	0.00058	mg/Kg			11/13/24 11:26	1
1,2-Dichlorobenzene	<0.00048		0.0010	0.00048	mg/Kg			11/13/24 11:26	1
1,3-Dichlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			11/13/24 11:26	1
1,4-Dichlorobenzene	<0.00045		0.0010	0.00045	mg/Kg			11/13/24 11:26	1
Dichlorodifluoromethane	<0.0018		0.0030	0.0018	mg/Kg			11/13/24 11:26	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			11/13/24 11:26	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			11/13/24 11:26	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			11/13/24 11:26	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			11/13/24 11:26	1
1,3-Dichloropropane	<0.00056		0.0010	0.00056	mg/Kg			11/13/24 11:26	1
2,2-Dichloropropane	<0.00048		0.0050	0.00048	mg/Kg			11/13/24 11:26	1
1,1-Dichloropropene	<0.00033		0.0010	0.00033	mg/Kg			11/13/24 11:26	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			11/13/24 11:26	1
Hexachlorobutadiene	<0.00054		0.0010	0.00054	mg/Kg			11/13/24 11:26	1
Isopropylbenzene	<0.00029		0.0010	0.00029	mg/Kg			11/13/24 11:26	1
Isopropyl ether	<0.00038		0.0010	0.00038	mg/Kg			11/13/24 11:26	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			11/13/24 11:26	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			11/13/24 11:26	1
Naphthalene	0.000729	J	0.0010	0.00044	mg/Kg			11/13/24 11:26	1
n-Butylbenzene	<0.00033		0.0010	0.00033	mg/Kg			11/13/24 11:26	1
N-Propylbenzene	<0.00032		0.0010	0.00032	mg/Kg			11/13/24 11:26	1
p-Isopropyltoluene	<0.00029		0.0010	0.00029	mg/Kg			11/13/24 11:26	1
sec-Butylbenzene	<0.00027		0.0010	0.00027	mg/Kg			11/13/24 11:26	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			11/13/24 11:26	1
tert-Butylbenzene	<0.00026		0.0010	0.00026	mg/Kg			11/13/24 11:26	1
1,1,1,2-Tetrachloroethane	<0.00067		0.0010	0.00067	mg/Kg			11/13/24 11:26	1
1,1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			11/13/24 11:26	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			11/13/24 11:26	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			11/13/24 11:26	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			11/13/24 11:26	1
trans-1,3-Dichloropropene	<0.00063		0.0010	0.00063	mg/Kg			11/13/24 11:26	1
1,2,3-Trichlorobenzene	<0.00035		0.0010	0.00035	mg/Kg			11/13/24 11:26	1
1,2,4-Trichlorobenzene	<0.00031		0.0010	0.00031	mg/Kg			11/13/24 11:26	1
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			11/13/24 11:26	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-795083/7

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			11/13/24 11:26	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			11/13/24 11:26	1
Trichlorofluoromethane	<0.00044		0.0010	0.00044	mg/Kg			11/13/24 11:26	1
1,2,3-Trichloropropane	<0.0015		0.0020	0.0015	mg/Kg			11/13/24 11:26	1
1,2,4-Trimethylbenzene	<0.00030		0.0010	0.00030	mg/Kg			11/13/24 11:26	1
1,3,5-Trimethylbenzene	<0.00029		0.0010	0.00029	mg/Kg			11/13/24 11:26	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			11/13/24 11:26	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			11/13/24 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		72 - 124		11/13/24 11:26	1
Dibromofluoromethane (Surr)	95		75 - 120		11/13/24 11:26	1
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		11/13/24 11:26	1
Toluene-d8 (Surr)	89		75 - 120		11/13/24 11:26	1

Lab Sample ID: LCS 500-795083/4

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0540		mg/Kg		108	70 - 120
Bromobenzene	0.0500	0.0477		mg/Kg		95	70 - 122
Bromochloromethane	0.0500	0.0475		mg/Kg		95	65 - 122
Bromodichloromethane	0.0500	0.0490		mg/Kg		98	69 - 120
Bromoform	0.0500	0.0414		mg/Kg		83	56 - 132
Bromomethane	0.0500	0.0629		mg/Kg		126	40 - 152
Carbon tetrachloride	0.0500	0.0517		mg/Kg		103	59 - 133
Chlorobenzene	0.0500	0.0495		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0475		mg/Kg		95	48 - 136
Chloroform	0.0500	0.0505		mg/Kg		101	70 - 120
Chloromethane	0.0500	0.0481		mg/Kg		96	56 - 152
2-Chlorotoluene	0.0500	0.0481		mg/Kg		96	70 - 125
4-Chlorotoluene	0.0500	0.0495		mg/Kg		99	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0482		mg/Kg		96	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0442		mg/Kg		88	64 - 127
Chlorodibromomethane	0.0500	0.0446		mg/Kg		89	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0396		mg/Kg		79	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0498		mg/Kg		100	70 - 125
Dibromomethane	0.0500	0.0469		mg/Kg		94	70 - 120
1,2-Dichlorobenzene	0.0500	0.0489		mg/Kg		98	70 - 125
1,3-Dichlorobenzene	0.0500	0.0496		mg/Kg		99	70 - 125
1,4-Dichlorobenzene	0.0500	0.0488		mg/Kg		98	70 - 120
Dichlorodifluoromethane	0.0500	0.0347		mg/Kg		69	40 - 159
1,1-Dichloroethane	0.0500	0.0523		mg/Kg		105	70 - 125
1,2-Dichloroethane	0.0500	0.0514		mg/Kg		103	68 - 127
1,1-Dichloroethene	0.0500	0.0520		mg/Kg		104	67 - 122
1,2-Dichloropropane	0.0500	0.0530		mg/Kg		106	67 - 130
1,3-Dichloropropane	0.0500	0.0492		mg/Kg		98	62 - 136

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-795083/4

Matrix: Solid

Analysis Batch: 795083

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	0.0500	0.0448		mg/Kg		90	58 - 139
1,1-Dichloropropene	0.0500	0.0485		mg/Kg		97	70 - 121
Ethylbenzene	0.0500	0.0477		mg/Kg		95	70 - 123
Hexachlorobutadiene	0.0500	0.0529		mg/Kg		106	51 - 150
Isopropylbenzene	0.0500	0.0469		mg/Kg		94	70 - 126
Methylene Chloride	0.0500	0.0459		mg/Kg		92	69 - 125
Methyl tert-butyl ether	0.0500	0.0401		mg/Kg		80	55 - 123
Naphthalene	0.0500	0.0411		mg/Kg		82	53 - 144
n-Butylbenzene	0.0500	0.0523		mg/Kg		105	68 - 125
N-Propylbenzene	0.0500	0.0496		mg/Kg		99	69 - 127
p-Isopropyltoluene	0.0500	0.0468		mg/Kg		94	70 - 125
sec-Butylbenzene	0.0500	0.0525		mg/Kg		105	70 - 123
Styrene	0.0500	0.0473		mg/Kg		95	70 - 120
tert-Butylbenzene	0.0500	0.0501		mg/Kg		100	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0501		mg/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0455		mg/Kg		91	62 - 140
Tetrachloroethene	0.0500	0.0507		mg/Kg		101	70 - 128
Toluene	0.0500	0.0476		mg/Kg		95	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0506		mg/Kg		101	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0414		mg/Kg		83	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0469		mg/Kg		94	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0471		mg/Kg		94	57 - 137
1,1,1-Trichloroethane	0.0500	0.0507		mg/Kg		101	70 - 125
1,1,2-Trichloroethane	0.0500	0.0421		mg/Kg		84	71 - 130
Trichloroethene	0.0500	0.0542		mg/Kg		108	70 - 125
Trichlorofluoromethane	0.0500	0.0555		mg/Kg		111	55 - 128
1,2,3-Trichloropropane	0.0500	0.0441		mg/Kg		88	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0509		mg/Kg		102	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0516		mg/Kg		103	70 - 123
Vinyl chloride	0.0500	0.0461		mg/Kg		92	64 - 126
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		72 - 124
Dibromofluoromethane (Surr)	89		75 - 120
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
Toluene-d8 (Surr)	89		75 - 120

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 280-674735/1-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 674735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.18		0.40	0.18	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluoropentanoic acid (PFPeA)	<0.011		0.20	0.011	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorohexanoic acid (PFHxA)	<0.017		0.20	0.017	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluoroheptanoic acid (PFHpA)	<0.024		0.20	0.024	ug/Kg		11/13/24 09:15	11/15/24 17:24	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 280-674735/1-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 674735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.084		0.20	0.084	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorononanoic acid (PFNA)	<0.060		0.20	0.060	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorodecanoic acid (PFDA)	<0.046		0.20	0.046	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluoroundecanoic acid (PFUnA)	<0.033		0.20	0.033	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorododecanoic acid (PFDoA)	<0.018		0.20	0.018	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorotridecanoic acid (PFTriA)	<0.025		0.20	0.025	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorotetradecanoic acid (PFTeA)	<0.031		0.20	0.031	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorobutanesulfonic acid (PFBS)	<0.0072		0.20	0.0072	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluoropentanesulfonic acid (PFPeS)	<0.021		0.20	0.021	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorohexanesulfonic acid (PFHxS)	<0.022		0.20	0.022	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.030		0.20	0.030	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorooctanesulfonic acid (PFOS)	<0.028		0.20	0.028	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorononanesulfonic acid (PFNS)	<0.027		0.20	0.027	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorodecanesulfonic acid (PFDS)	<0.022		0.20	0.022	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorododecanesulfonic acid (PFDoS)	<0.014		0.20	0.014	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
4:2 FTS	<0.044		0.40	0.044	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
6:2 FTS	<0.061		0.40	0.061	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
8:2 FTS	<0.059		0.40	0.059	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluorooctanesulfonamide (FOSA)	<0.031		0.20	0.031	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
NMeFOSA	<0.025		0.20	0.025	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
NEtFOSA	<0.062		0.20	0.062	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
NMeFOSAA	<0.050		0.20	0.050	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
NEtFOSAA	<0.048		0.20	0.048	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
NMeFOSE	<0.070		1.0	0.070	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
NEtFOSE	<0.12		1.0	0.12	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
HFPO-DA (GenX)	<0.027		0.20	0.027	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0095		0.20	0.0095	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.013		0.20	0.013	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.036		0.20	0.036	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0062		0.20	0.0062	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
F-53B Major	<0.020		0.20	0.020	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
F-53B Minor	<0.021		0.20	0.021	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.020		0.20	0.020	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.037		0.40	0.037	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.11		1.0	0.11	ug/Kg		11/13/24 09:15	11/15/24 17:24	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.17		1.0	0.17	ug/Kg		11/13/24 09:15	11/15/24 17:24	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	87.9		8 - 130	11/13/24 09:15	11/15/24 17:24	1
13C5 PFPeA	98.0		35 - 130	11/13/24 09:15	11/15/24 17:24	1

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 280-674735/1-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 674735

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	86.8		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C4 PFHpA	86.1		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C8 PFOA	84.4		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C9 PFNA	85.2		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C6 PFDA	82.9		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C7 PFUnA	74.9		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C2 PFDoA	75.5		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C2 PFTeDA	72.1		20 - 130	11/13/24 09:15	11/15/24 17:24	1
13C3 PFBS	94.2		40 - 135	11/13/24 09:15	11/15/24 17:24	1
13C3 PFHxS	90.1		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C8 PFOS	85.7		40 - 130	11/13/24 09:15	11/15/24 17:24	1
13C8 FOSA	75.2		40 - 130	11/13/24 09:15	11/15/24 17:24	1
d3-NMeFOSAA	76.8		40 - 135	11/13/24 09:15	11/15/24 17:24	1
d5-NEtFOSAA	68.1		40 - 150	11/13/24 09:15	11/15/24 17:24	1
M2-4:2 FTS	91.6		40 - 165	11/13/24 09:15	11/15/24 17:24	1
M2-6:2 FTS	94.1		40 - 215	11/13/24 09:15	11/15/24 17:24	1
M2-8:2 FTS	85.6		40 - 275	11/13/24 09:15	11/15/24 17:24	1
13C3 HFPO-DA	89.8		40 - 130	11/13/24 09:15	11/15/24 17:24	1
d7-N-MeFOSE-M	61.0		20 - 130	11/13/24 09:15	11/15/24 17:24	1
d9-N-EtFOSE-M	57.9		15 - 130	11/13/24 09:15	11/15/24 17:24	1
d5-NEtPFOSA	55.4		10 - 130	11/13/24 09:15	11/15/24 17:24	1
d3-NMePFOSA	57.3		10 - 130	11/13/24 09:15	11/15/24 17:24	1

Lab Sample ID: LCS 280-674735/3-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 674735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.50	2.50		ug/Kg		100	70 - 140
Perfluoropentanoic acid (PFPeA)	1.25	1.20		ug/Kg		96	60 - 150
Perfluorohexanoic acid (PFHxA)	1.25	1.25		ug/Kg		100	65 - 140
Perfluoroheptanoic acid (PFHpA)	1.25	1.30		ug/Kg		104	65 - 145
Perfluorooctanoic acid (PFOA)	1.25	1.28		ug/Kg		102	70 - 150
Perfluorononanoic acid (PFNA)	1.25	1.21		ug/Kg		97	70 - 155
Perfluorodecanoic acid (PFDA)	1.25	1.12		ug/Kg		90	70 - 155
Perfluoroundecanoic acid (PFUnA)	1.25	1.33		ug/Kg		106	70 - 155
Perfluorododecanoic acid (PFDoA)	1.25	1.28		ug/Kg		103	70 - 150
Perfluorotridecanoic acid (PFTriA)	1.25	1.18		ug/Kg		95	65 - 150
Perfluorotetradecanoic acid (PFTeA)	1.25	1.16		ug/Kg		93	65 - 150
Perfluorobutanesulfonic acid (PFBS)	1.11	1.09		ug/Kg		98	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	1.17	1.17		ug/Kg		100	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	1.14	1.22		ug/Kg		107	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.19	1.10		ug/Kg		92	65 - 155

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 280-674735/3-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 674735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.16	1.05		ug/Kg		90	65 - 160
Perfluorononanesulfonic acid (PFNS)	1.20	1.07		ug/Kg		89	55 - 140
Perfluorodecanesulfonic acid (PFDS)	1.21	1.02		ug/Kg		85	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	1.21	1.00		ug/Kg		83	25 - 160
4:2 FTS	2.34	2.50		ug/Kg		107	60 - 150
6:2 FTS	2.37	2.50		ug/Kg		105	55 - 200
8:2 FTS	2.40	2.53		ug/Kg		105	70 - 150
Perfluorooctanesulfonamide (FOSA)	1.25	1.37		ug/Kg		109	70 - 140
NMeFOSA	1.25	1.33		ug/Kg		106	70 - 155
NEtFOSA	1.25	1.28		ug/Kg		103	70 - 140
NMeFOSAA	1.25	1.10		ug/Kg		88	65 - 155
NEtFOSAA	1.25	1.31		ug/Kg		105	65 - 165
NMeFOSE	6.25	6.30		ug/Kg		101	70 - 140
NEtFOSE	6.25	6.59		ug/Kg		105	70 - 135
HFPO-DA (GenX)	1.25	1.23		ug/Kg		98	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.18	1.29		ug/Kg		110	70 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.25	1.19		ug/Kg		95	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.25	1.12		ug/Kg		89	60 - 155
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.25	1.06		ug/Kg		85	30 - 140
F-53B Major	1.17	1.19		ug/Kg		102	70 - 150
F-53B Minor	1.18	1.16		ug/Kg		99	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1.12	1.12		ug/Kg		100	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.50	2.20		ug/Kg		88	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	6.25	5.90		ug/Kg		94	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	6.25	4.60		ug/Kg		74	60 - 150

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	104		8 - 130
13C5 PFPeA	116		35 - 130
13C5 PFHxA	107		40 - 130
13C4 PFHpA	106		40 - 130
13C8 PFOA	101		40 - 130
13C9 PFNA	105		40 - 130
13C6 PFDA	102		40 - 130
13C7 PFUnA	88.0		40 - 130
13C2 PFDoA	82.4		40 - 130
13C2 PFTeDA	89.1		20 - 130
13C3 PFBS	99.7		40 - 135
13C3 PFHxS	101		40 - 130

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 280-674735/3-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 674735

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C8 PFOS	105		40 - 130
13C8 FOSA	89.6		40 - 130
d3-NMeFOSAA	92.5		40 - 135
d5-NEtFOSAA	86.8		40 - 150
M2-4:2 FTS	103		40 - 165
M2-6:2 FTS	100		40 - 215
M2-8:2 FTS	95.3		40 - 275
13C3 HFPO-DA	96.4		40 - 130
d7-N-MeFOSE-M	72.5		20 - 130
d9-N-EtFOSE-M	64.9		15 - 130
d5-NEtPFOSA	67.6		10 - 130
d3-NMePFOSA	68.9		10 - 130

Lab Sample ID: LCSD 280-674735/4-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 674735

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
Perfluorobutanoic acid (PFBA)	2.50	2.56		ug/Kg		102	70 - 140		2	30
Perfluoropentanoic acid (PFPeA)	1.25	1.24		ug/Kg		99	60 - 150		3	30
Perfluorohexanoic acid (PFHxA)	1.25	1.33		ug/Kg		107	65 - 140		7	30
Perfluoroheptanoic acid (PFHpA)	1.25	1.31		ug/Kg		105	65 - 145		0	30
Perfluorooctanoic acid (PFOA)	1.25	1.26		ug/Kg		101	70 - 150		2	30
Perfluorononanoic acid (PFNA)	1.25	1.28		ug/Kg		103	70 - 155		6	30
Perfluorodecanoic acid (PFDA)	1.25	1.27		ug/Kg		102	70 - 155		13	30
Perfluoroundecanoic acid (PFUnA)	1.25	1.50		ug/Kg		120	70 - 155		12	30
Perfluorododecanoic acid (PFDoA)	1.25	1.47		ug/Kg		118	70 - 150		14	30
Perfluorotridecanoic acid (PFTriA)	1.25	1.22		ug/Kg		97	65 - 150		3	30
Perfluorotetradecanoic acid (PFTeA)	1.25	1.12		ug/Kg		90	65 - 150		3	30
Perfluorobutanesulfonic acid (PFBS)	1.11	1.11		ug/Kg		100	65 - 145		2	30
Perfluoropentanesulfonic acid (PFPeS)	1.17	1.24		ug/Kg		106	55 - 160		5	30
Perfluorohexanesulfonic acid (PFHxS)	1.14	1.17		ug/Kg		102	60 - 150		5	30
Perfluoroheptanesulfonic acid (PFHpS)	1.19	1.23		ug/Kg		103	65 - 155		11	30
Perfluorooctanesulfonic acid (PFOS)	1.16	1.20		ug/Kg		103	65 - 160		13	30
Perfluorononanesulfonic acid (PFNS)	1.20	1.30		ug/Kg		108	55 - 140		19	30
Perfluorodecanesulfonic acid (PFDS)	1.21	1.09		ug/Kg		90	40 - 155		6	30
Perfluorododecanesulfonic acid (PFDoS)	1.21	1.10		ug/Kg		91	25 - 160		10	30
4:2 FTS	2.34	2.36		ug/Kg		101	60 - 150		6	30
6:2 FTS	2.37	2.39		ug/Kg		101	55 - 200		4	30
8:2 FTS	2.40	2.81		ug/Kg		117	70 - 150		11	30

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 280-674735/4-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 674735

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonamide (FOSA)	1.25	1.37		ug/Kg		110	70 - 140	0	30
NMeFOSA	1.25	1.28		ug/Kg		103	70 - 155	3	30
NEtFOSA	1.25	1.30		ug/Kg		104	70 - 140	1	30
NMeFOSAA	1.25	1.37		ug/Kg		110	65 - 155	22	30
NEtFOSAA	1.25	1.14		ug/Kg		91	65 - 165	14	30
NMeFOSE	6.25	6.36		ug/Kg		102	70 - 140	1	30
NEtFOSE	6.25	6.15		ug/Kg		98	70 - 135	7	30
HFPO-DA (GenX)	1.25	1.21		ug/Kg		97	70 - 145	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.18	1.16		ug/Kg		99	70 - 160	10	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.25	1.19		ug/Kg		95	60 - 150	0	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.25	1.41		ug/Kg		113	60 - 155	23	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.25	1.14		ug/Kg		91	30 - 140	7	30
F-53B Major	1.17	1.11		ug/Kg		95	70 - 150	7	30
F-53B Minor	1.18	1.04		ug/Kg		88	45 - 160	12	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1.12	1.14		ug/Kg		102	70 - 140	2	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.50	2.22		ug/Kg		89	45 - 130	1	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	6.25	6.53		ug/Kg		104	60 - 130	10	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	6.25	5.22		ug/Kg		83	60 - 150	12	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	95.3		8 - 130
13C5 PFPeA	102		35 - 130
13C5 PFHxA	89.8		40 - 130
13C4 PFHpA	96.9		40 - 130
13C8 PFOA	91.8		40 - 130
13C9 PFNA	91.5		40 - 130
13C6 PFDA	93.9		40 - 130
13C7 PFUnA	79.7		40 - 130
13C2 PFDoA	76.2		40 - 130
13C2 PFTeDA	86.2		20 - 130
13C3 PFBS	101		40 - 135
13C3 PFHxS	95.8		40 - 130
13C8 PFOS	91.8		40 - 130
13C8 FOSA	85.0		40 - 130
d3-NMeFOSAA	81.3		40 - 135
d5-NEtFOSAA	81.8		40 - 150
M2-4:2 FTS	99.6		40 - 165
M2-6:2 FTS	103		40 - 215
M2-8:2 FTS	97.6		40 - 275
13C3 HFPO-DA	94.6		40 - 130
d7-N-MeFOSE-M	72.6		20 - 130
d9-N-EtFOSE-M	68.3		15 - 130

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 280-674735/4-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 674735

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
d5-NEtPFOSA	62.1		10 - 130
d3-NMePFOSA	67.7		10 - 130

Lab Sample ID: LLCS 280-674735/2-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 674735

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.500	0.498		ug/Kg		100	70 - 140
Perfluoropentanoic acid (PFPeA)	0.250	0.240		ug/Kg		96	60 - 150
Perfluorohexanoic acid (PFHxA)	0.250	0.245		ug/Kg		98	65 - 140
Perfluoroheptanoic acid (PFHpA)	0.250	0.291		ug/Kg		117	65 - 145
Perfluorooctanoic acid (PFOA)	0.250	0.211		ug/Kg		84	70 - 150
Perfluorononanoic acid (PFNA)	0.250	0.270		ug/Kg		108	70 - 155
Perfluorodecanoic acid (PFDA)	0.250	0.222		ug/Kg		89	70 - 155
Perfluoroundecanoic acid (PFUnA)	0.250	0.242		ug/Kg		97	70 - 155
Perfluorododecanoic acid (PFDoA)	0.250	0.282		ug/Kg		113	70 - 150
Perfluorotridecanoic acid (PFTriA)	0.250	0.236		ug/Kg		94	65 - 150
Perfluorotetradecanoic acid (PFTeA)	0.250	0.223		ug/Kg		89	65 - 150
Perfluorobutanesulfonic acid (PFBS)	0.222	0.221		ug/Kg		100	65 - 145
Perfluoropentanesulfonic acid (PFPeS)	0.235	0.238		ug/Kg		101	55 - 160
Perfluorohexanesulfonic acid (PFHxS)	0.228	0.243		ug/Kg		106	60 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.238	0.216		ug/Kg		91	65 - 155
Perfluorooctanesulfonic acid (PFOS)	0.233	0.209		ug/Kg		90	65 - 160
Perfluorononanesulfonic acid (PFNS)	0.241	0.210		ug/Kg		87	55 - 140
Perfluorodecanesulfonic acid (PFDS)	0.241	0.206	I	ug/Kg		86	40 - 155
Perfluorododecanesulfonic acid (PFDoS)	0.243	0.182	J	ug/Kg		75	25 - 160
4:2 FTS	0.467	0.471		ug/Kg		101	60 - 150
6:2 FTS	0.474	0.443		ug/Kg		94	55 - 200
8:2 FTS	0.479	0.495		ug/Kg		103	70 - 150
Perfluorooctanesulfonamide (FOSA)	0.250	0.259		ug/Kg		104	70 - 140
NMeFOSA	0.250	0.273		ug/Kg		109	70 - 155
NEtFOSA	0.250	0.251		ug/Kg		101	70 - 140
NMeFOSAA	0.250	0.265		ug/Kg		106	65 - 155
NEtFOSAA	0.250	0.256		ug/Kg		102	65 - 165
NMeFOSE	1.25	1.20		ug/Kg		96	70 - 140
NEtFOSE	1.25	1.25		ug/Kg		100	70 - 135
HFPO-DA (GenX)	0.250	0.257		ug/Kg		103	70 - 145

Eurofins Chicago

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 280-674735/2-A

Matrix: Solid

Analysis Batch: 675289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 674735

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.236	0.239		ug/Kg		101	70 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.250	0.228		ug/Kg		91	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.250	0.252		ug/Kg		101	60 - 155
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.250	0.211		ug/Kg		84	30 - 140
F-53B Major	0.233	0.218		ug/Kg		94	70 - 150
F-53B Minor	0.236	0.175	J	ug/Kg		75	45 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.223	0.210		ug/Kg		94	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.500	0.441		ug/Kg		88	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.25	1.15		ug/Kg		92	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.25	1.01		ug/Kg		81	60 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	108		8 - 130
13C5 PFPeA	123		35 - 130
13C5 PFHxA	115		40 - 130
13C4 PFHpA	110		40 - 130
13C8 PFOA	109		40 - 130
13C9 PFNA	104		40 - 130
13C6 PFDA	92.6		40 - 130
13C7 PFUnA	81.4		40 - 130
13C2 PFDoA	70.6		40 - 130
13C2 PFTeDA	69.9		20 - 130
13C3 PFBS	111		40 - 135
13C3 PFHxS	106		40 - 130
13C8 PFOS	104		40 - 130
13C8 FOSA	92.2		40 - 130
d3-NMeFOSAA	91.3		40 - 135
d5-NEtFOSAA	86.3		40 - 150
M2-4:2 FTS	113		40 - 165
M2-6:2 FTS	111		40 - 215
M2-8:2 FTS	104		40 - 275
13C3 HFPO-DA	103		40 - 130
d7-N-MeFOSE-M	69.2		20 - 130
d9-N-EtFOSE-M	62.6		15 - 130
d5-NEtPFOSA	67.8		10 - 130
d3-NMePFOSA	72.1		10 - 130

QC Sample Results

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-796011/1-A
Matrix: Solid
Analysis Batch: 796408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 796011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		11/19/24 09:41	11/20/24 23:52	1
Barium	<0.11		1.0	0.11	mg/Kg		11/19/24 09:41	11/20/24 23:52	1
Cadmium	<0.036		0.20	0.036	mg/Kg		11/19/24 09:41	11/20/24 23:52	1
Chromium	<0.50		1.0	0.50	mg/Kg		11/19/24 09:41	11/20/24 23:52	1
Lead	<0.23		0.50	0.23	mg/Kg		11/19/24 09:41	11/20/24 23:52	1
Selenium	<0.59		1.0	0.59	mg/Kg		11/19/24 09:41	11/20/24 23:52	1
Silver	<0.13		0.50	0.13	mg/Kg		11/19/24 09:41	11/20/24 23:52	1

Lab Sample ID: LCS 500-796011/2-A
Matrix: Solid
Analysis Batch: 796408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 796011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	10.2		mg/Kg		102	80 - 120
Barium	200	206		mg/Kg		103	80 - 120
Cadmium	5.00	4.90		mg/Kg		98	80 - 120
Chromium	20.0	20.7		mg/Kg		103	80 - 120
Lead	10.0	10.5		mg/Kg		105	80 - 120
Selenium	10.0	9.92		mg/Kg		99	80 - 120
Silver	5.00	4.58		mg/Kg		92	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-796518/12-A
Matrix: Solid
Analysis Batch: 796704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 796518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0106	J	0.017	0.0069	mg/Kg		11/22/24 11:30	11/22/24 14:09	1

Lab Sample ID: LCS 500-796518/13-A
Matrix: Solid
Analysis Batch: 796704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 796518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.187		mg/Kg		112	80 - 120

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Client Sample ID: WC1-Grading 103024

Lab Sample ID: 500-259601-1

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	795412	MF	EET CHI	11/14/24 14:16

Client Sample ID: WC1-Grading 103024

Lab Sample ID: 500-259601-1

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			794692	WRE	EET CHI	10/30/24 10:20
Total/NA	Analysis	8260D		50	794909	SW1	EET CHI	11/12/24 17:18
Total/NA	Prep	1633 Shake			674735	SSS	EET DEN	11/13/24 09:15
Total/NA	Analysis	1633		1	675289	SCS	EET DEN	11/15/24 20:56
Total/NA	Prep	3050B			796011	BDE	EET CHI	11/19/24 09:41 - 11/19/24 15:41 ¹
Total/NA	Analysis	6010D		1	796408	RB	EET CHI	11/21/24 01:39
Total/NA	Prep	7471B			796518	S1Z	EET CHI	11/22/24 11:30
Total/NA	Analysis	7471B		1	796785	MJG	EET CHI	11/22/24 17:37

Client Sample ID: WC2-Grading 103024

Lab Sample ID: 500-259601-2

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	795412	MF	EET CHI	11/14/24 14:16

Client Sample ID: WC2-Grading 103024

Lab Sample ID: 500-259601-2

Date Collected: 10/30/24 10:20

Matrix: Solid

Date Received: 11/06/24 09:35

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			794692	WRE	EET CHI	10/30/24 10:20
Total/NA	Analysis	8260D		50	794909	SW1	EET CHI	11/12/24 17:43
Total/NA	Prep	1633 Shake			674735	SSS	EET DEN	11/13/24 09:15
Total/NA	Analysis	1633		1	675289	SCS	EET DEN	11/15/24 21:15
Total/NA	Prep	3050B			796011	BDE	EET CHI	11/19/24 09:41 - 11/19/24 15:41 ¹
Total/NA	Analysis	6010D		1	796408	RB	EET CHI	11/21/24 01:44
Total/NA	Prep	7471B			796518	S1Z	EET CHI	11/22/24 11:30
Total/NA	Analysis	7471B		1	796785	MJG	EET CHI	11/22/24 17:38

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Chicago

Accreditation/Certification Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-25

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999615430	08-31-25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Address Eufins Brookfield

Chain of Custody Record 727586



Environment Testing America

TAL-8210

[illegible]

INS
525 N 124TH STREET
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 56.20 LB
CAD: 07803077/CAFE3855
BILL RECIPIENT

TO **SAMPLE RECEIPT**
EUROFINS - CHICAGO
2417 BOND ST.



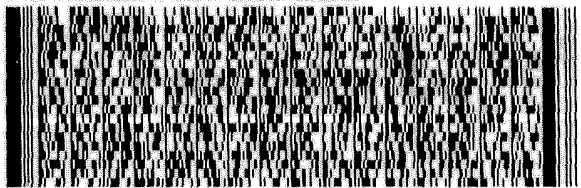
UNIVERSITY PARK IL 60484

500 259601 Waybi

(708) 634-5200

REF

DEPT:



FedEx
Express



1 of 2

TRK#
0201 4221 9522 0484

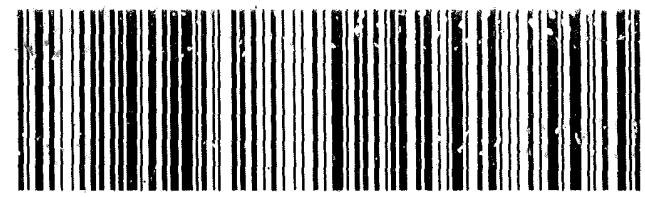
MASTER

79 JOTA

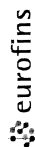
WED - 06 NOV 10:30A
PRIORITY OVERNIGHT

60484

IL-US ORD



Chain of Custody Record



Client Information (Sub Contract Lab)										Lab PM: Fredrick, Sandie		Carrier Tracking No(s): N/A		COC No: 500-194767.1			
Client Contact: Shipping/Receiving										E-Mail: Sandra.Fredrick@et-eurofinsus.com		State of Origin: Wisconsin		Page: Page 1 of 1			
Company: TestAmerica Laboratories, Inc.										Accreditations Required (See note): State - Wisconsin		Job #: 500-259601-1		Preservation Codes:			
Address: 1955 Yarrow Street, Arvada, CO, 80002										Due Date Requested: 11/19/2024		Analysis Requested		Total Number of containers			
City: Arvada										TAT Requested (days): N/A		1633_Final/1633_Shake PFAS - 1633 (40)		Other: N/A			
Phone: 303-736-0100(Tel) 303-431-7171(Fax)										PO #: N/A		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
State, Zip: CO, 80002										WO #: N/A		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
Email: N/A										Project #: 50016218		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
Project Name: TYCO Marinette WI										SSOW#: N/A		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
Site: N/A										Sample Date		Sample Time		Sample Type (C=Comp, G=grab)			
Sample Identification - Client ID (Lab ID)										Sample Date		Sample Time		Sample Type (C=Comp, G=grab)			
WC1-Grading 103024 (500-259601-1)										10/30/24		10:20 Central		G Solid			
WC2-Grading 103024 (500-259601-2)										10/30/24		10:20 Central		G Solid			
Special Instructions/Note:										Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:			
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/ests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For Months	
Possible Hazard Identification										Unconfirmed		Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2			
Empty Kit Relinquished by:										Date:		Time:		Method of Shipment:			
Relinquished by: Daniel [Signature]										Date/Time: 11/6/24 16:00		Company: EETA		Received by: [Signature]			
Relinquished by:										Date/Time:		Company:		Received by:			
Relinquished by:										Date/Time:		Company:		Received by:			
Custody Seals Intact: A Yes A No										Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 20°C		Company: EETA			

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-259601-1

Login Number: 259601

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-259601-1

Login Number: 259601

List Number: 2

Creator: Rystrom, Joshua R

List Source: Eurofins Denver

List Creation: 11/07/24 04:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI

Job ID: 500-259601-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (8-130)	PFPeA (35-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (40-130)
500-259601-1	WC1-Grading 103024	88.3	94.0	87.7	96.4	94.3	95.2	87.2	85.6
500-259601-2	WC2-Grading 103024	121	112	120	130	114	119	116	108
LCS 280-674735/3-A	Lab Control Sample	104	116	107	106	101	105	102	88.0
LCSD 280-674735/4-A	Lab Control Sample Dup	95.3	102	89.8	96.9	91.8	91.5	93.9	79.7
LLCS 280-674735/2-A	Lab Control Sample	108	123	115	110	109	104	92.6	81.4
MB 280-674735/1-A	Method Blank	87.9	98.0	86.8	86.1	84.4	85.2	82.9	74.9

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (40-130)	PFTDA (20-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-135)	d5NEFOS (40-150)
500-259601-1	WC1-Grading 103024	80.2	86.0	86.7	92.0	81.3	73.5	81.6	80.9
500-259601-2	WC2-Grading 103024	97.8	134 *5+	117	126	96.0	94.8	108	106
LCS 280-674735/3-A	Lab Control Sample	82.4	89.1	99.7	101	105	89.6	92.5	86.8
LCSD 280-674735/4-A	Lab Control Sample Dup	76.2	86.2	101	95.8	91.8	85.0	81.3	81.8
LLCS 280-674735/2-A	Lab Control Sample	70.6	69.9	111	106	104	92.2	91.3	86.3
MB 280-674735/1-A	Method Blank	75.5	72.1	94.2	90.1	85.7	75.2	76.8	68.1

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (40-165)	M262FTS (40-215)	M282FTS (40-275)	HFPODA (40-130)	NMFM (20-130)	NEFM (15-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
500-259601-1	WC1-Grading 103024	118	109	115	86.9	59.5	54.4	58.2	58.8
500-259601-2	WC2-Grading 103024	208 *5+	184	190	119	77.7	69.3	72.6	74.6
LCS 280-674735/3-A	Lab Control Sample	103	100	95.3	96.4	72.5	64.9	67.6	68.9
LCSD 280-674735/4-A	Lab Control Sample Dup	99.6	103	97.6	94.6	72.6	68.3	62.1	67.7
LLCS 280-674735/2-A	Lab Control Sample	113	111	104	103	69.2	62.6	67.8	72.1
MB 280-674735/1-A	Method Blank	91.6	94.1	85.6	89.8	61.0	57.9	55.4	57.3

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA

Eurofins Chicago

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO Marinette WI
d3NMFSA = d3-NMePFOSA

Job ID: 500-259601-1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Attachment 7
ChemDesign Building 38 and Building 84
Construction-Related Soil Waste Characterization
Laboratory Results



October 04, 2024

Tom Willis
ChemDesign Products Inc
2 Stanton Street
Marinette, WI 54143

RE: Project: Waste Disposal
Pace Project No.: 40283990

Dear Tom Willis:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Dan Chinnery, Specialty Chem Products / Chemdesign
Christopher Moore, ChemDesign Products Inc



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: Waste Disposal
Pace Project No.: 40283990

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



SAMPLE SUMMARY

Project: Waste Disposal

Pace Project No.: 40283990

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40283990001	SAMPLE 1	Solid	09/10/24 14:30	09/12/24 10:10
40283990002	SAMPLE 2	Solid	09/10/24 14:30	09/12/24 10:10
40283990003	SAMPLE 3	Solid	09/10/24 14:30	09/12/24 10:10

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



SAMPLE ANALYTE COUNT

Project: Waste Disposal
Pace Project No.: 40283990

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40283990001	SAMPLE 1	EPA 6010D	SIS	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270E	RJN	16	PASI-G
		EPA 8260	NB	13	PASI-G
		ENV-SOP-MIN4-0178	NBH	61	PASI-M
		ASTM D2974-87	MYH	1	PASI-G
40283990002	SAMPLE 2	EPA 6010D	SIS	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270E	RJN	16	PASI-G
		EPA 8260	NB	13	PASI-G
		ENV-SOP-MIN4-0178	NBH	61	PASI-M
		ASTM D2974-87	MYH	1	PASI-G
40283990003	SAMPLE 3	EPA 6010D	SIS	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270E	RJN	16	PASI-G
		EPA 8260	NB	13	PASI-G
		ENV-SOP-MIN4-0178	NBH	61	PASI-M
		ASTM D2974-87	MYH	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 1** Lab ID: **40283990001** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Arsenic	0.050	mg/L	0.025	0.0083	1	09/18/24 11:24	09/18/24 13:29	7440-38-2	
Barium	0.22	mg/L	0.0050	0.0015	1	09/18/24 11:24	09/18/24 13:29	7440-39-3	
Cadmium	0.0041J	mg/L	0.0050	0.0013	1	09/18/24 11:24	09/18/24 13:29	7440-43-9	
Chromium	<0.0025	mg/L	0.010	0.0025	1	09/18/24 11:24	09/18/24 13:29	7440-47-3	
Lead	<0.0059	mg/L	0.020	0.0059	1	09/18/24 11:24	09/18/24 13:29	7439-92-1	
Selenium	<0.012	mg/L	0.040	0.012	1	09/18/24 11:24	09/18/24 13:29	7782-49-2	
Silver	<0.0032	mg/L	0.010	0.0032	1	09/18/24 11:24	09/18/24 13:29	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	09/18/24 10:55	09/18/24 14:11	7439-97-6	1q,2q
8270E MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270E Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
1,4-Dichlorobenzene	<17.8	ug/L	50.0	17.8	1	09/18/24 12:31	09/19/24 10:56	106-46-7	
2,4-Dinitrotoluene	<11.9	ug/L	50.0	11.9	1	09/18/24 12:31	09/19/24 10:56	121-14-2	
Hexachloro-1,3-butadiene	<16.4	ug/L	50.0	16.4	1	09/18/24 12:31	09/19/24 10:56	87-68-3	
Hexachlorobenzene	<25.2	ug/L	50.0	25.2	1	09/18/24 12:31	09/19/24 10:56	118-74-1	
Hexachloroethane	<15.1	ug/L	50.0	15.1	1	09/18/24 12:31	09/19/24 10:56	67-72-1	
2-Methylphenol(o-Cresol)	<7.7	ug/L	50.0	7.7	1	09/18/24 12:31	09/19/24 10:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	<6.0	ug/L	50.0	6.0	1	09/18/24 12:31	09/19/24 10:56		
Nitrobenzene	<15.7	ug/L	50.0	15.7	1	09/18/24 12:31	09/19/24 10:56	98-95-3	
Pentachlorophenol	<16.3	ug/L	50.0	16.3	1	09/18/24 12:31	09/19/24 10:56	87-86-5	
Pyridine	<73.0	ug/L	100	73.0	1	09/18/24 12:31	09/19/24 10:56	110-86-1	
2,4,5-Trichlorophenol	<18.2	ug/L	50.0	18.2	1	09/18/24 12:31	09/19/24 10:56	95-95-4	
2,4,6-Trichlorophenol	<20.0	ug/L	50.0	20.0	1	09/18/24 12:31	09/19/24 10:56	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	100	%	41-134		1	09/18/24 12:31	09/19/24 10:56	4165-60-0	
2-Fluorobiphenyl (S)	76	%	25-130		1	09/18/24 12:31	09/19/24 10:56	321-60-8	
2,4,6-Tribromophenol (S)	120	%	10-163		1	09/18/24 12:31	09/19/24 10:56	118-79-6	
Phenol-d6 (S)	34	%	10-130		1	09/18/24 12:31	09/19/24 10:56	13127-88-3	
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Benzene	<3.0	ug/L	10.0	3.0	10		09/18/24 21:52	71-43-2	
2-Butanone (MEK)	<65.2	ug/L	250	65.2	10		09/18/24 21:52	78-93-3	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		09/18/24 21:52	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		09/18/24 21:52	108-90-7	
Chloroform	<5.0	ug/L	50.0	5.0	10		09/18/24 21:52	67-66-3	
1,2-Dichloroethane	<2.9	ug/L	10.0	2.9	10		09/18/24 21:52	107-06-2	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		09/18/24 21:52	75-35-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 1** Lab ID: **40283990001** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		09/18/24 21:52	127-18-4	
Trichloroethene	<3.2	ug/L	10.0	3.2	10		09/18/24 21:52	79-01-6	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		09/18/24 21:52	75-01-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%			10		09/18/24 21:52	2199-69-1	
4-Bromofluorobenzene (S)	103	%			10		09/18/24 21:52	460-00-4	
Toluene-d8 (S)	98	%			10		09/18/24 21:52	2037-26-5	
WI ID SL									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
10:2 FTS	98.4	ug/kg	9.9	2.6	100	10/01/24 13:43	10/03/24 15:31	120226-60-0	
11CI-PF3OUdS	<0.018	ug/kg	0.096	0.018	1	10/01/24 13:43	10/02/24 17:32	763051-92-9	
4:2 FTS	17.6	ug/kg	0.96	0.13	10	10/01/24 13:43	10/03/24 15:24	757124-72-4	
6:2 FTS	296	ug/kg	9.7	2.1	100	10/01/24 13:43	10/03/24 15:31	27619-97-2	L1
8:2 FTS	81.6	ug/kg	0.99	0.41	10	10/01/24 13:43	10/03/24 15:24	39108-34-4	
9CI-PF3ONS	<0.019	ug/kg	0.095	0.019	1	10/01/24 13:43	10/02/24 17:32	756426-58-1	
ADONA	<0.011	ug/kg	0.097	0.011	1	10/01/24 13:43	10/02/24 17:32	919005-14-4	
HFPO-DA	<0.018	ug/kg	0.10	0.018	1	10/01/24 13:43	10/02/24 17:32	13252-13-6	
NEtFOSAA	0.35	ug/kg	0.10	0.018	1	10/01/24 13:43	10/02/24 17:32	2991-50-6	
NEtFOSA	0.060J	ug/kg	0.10	0.023	1	10/01/24 13:43	10/02/24 17:32	4151-50-2	
NEtFOSE	0.20	ug/kg	0.10	0.021	1	10/01/24 13:43	10/02/24 17:32	1691-99-2	
NMeFOSAA	12.9	ug/kg	1.0	0.43	10	10/01/24 13:43	10/03/24 15:24	2355-31-9	
NMeFOSA	0.23	ug/kg	0.10	0.037	1	10/01/24 13:43	10/02/24 17:32	31506-32-8	
NMeFOSE	3.2	ug/kg	0.10	0.020	1	10/01/24 13:43	10/02/24 17:32	24448-09-7	
PFBS	0.037J	ug/kg	0.091	0.013	1	10/01/24 13:43	10/02/24 17:32	375-73-5	
PFDA	3.9	ug/kg	0.10	0.018	1	10/01/24 13:43	10/02/24 17:32	335-76-2	
PFHxA	239	ug/kg	10.2	1.5	100	10/01/24 13:43	10/03/24 15:31	307-24-4	
PFBA	39.1	ug/kg	1.0	0.31	10	10/01/24 13:43	10/03/24 15:24	375-22-4	
PFDS	0.32	ug/kg	0.099	0.030	1	10/01/24 13:43	10/02/24 17:32	335-77-3	
PFDoS	<0.024	ug/kg	0.099	0.024	1	10/01/24 13:43	10/02/24 17:32	79780-39-5	
PFHpS	<0.024	ug/kg	0.097	0.024	1	10/01/24 13:43	10/02/24 17:32	375-92-8	
PFHxDA	1.7	ug/kg	0.10	0.015	1	10/01/24 13:43	10/02/24 17:32	67905-19-5	
PFNS	<0.028	ug/kg	0.098	0.028	1	10/01/24 13:43	10/02/24 17:32	68259-12-1	
PFODA	0.30	ug/kg	0.10	0.038	1	10/01/24 13:43	10/02/24 17:32	16517-11-6	
PFOSA	2.0	ug/kg	0.10	0.015	1	10/01/24 13:43	10/02/24 17:32	754-91-6	
PFPeA	92.5	ug/kg	1.0	0.18	10	10/01/24 13:43	10/03/24 15:24	2706-90-3	
PFPeS	0.019J	ug/kg	0.096	0.012	1	10/01/24 13:43	10/02/24 17:32	2706-91-4	
PFDoA	12.8	ug/kg	1.0	0.24	10	10/01/24 13:43	10/03/24 15:24	307-55-1	
PFHpA	28.2	ug/kg	1.0	0.10	10	10/01/24 13:43	10/03/24 15:24	375-85-9	
PFHxS	0.067J	ug/kg	0.093	0.011	1	10/01/24 13:43	10/02/24 17:32	355-46-4	
PFNA	1.7	ug/kg	0.10	0.019	1	10/01/24 13:43	10/02/24 17:32	375-95-1	
PFOS	3.8	ug/kg	0.095	0.044	1	10/01/24 13:43	10/02/24 17:32	1763-23-1	
PFOA	6.6	ug/kg	0.10	0.012	1	10/01/24 13:43	10/02/24 17:32	335-67-1	
PFTeDA	9.9	ug/kg	1.0	0.16	10	10/01/24 13:43	10/03/24 15:24	376-06-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 1** Lab ID: **40283990001** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
PFTTrDA	7.1	ug/kg	0.10	0.022	1	10/01/24 13:43	10/02/24 17:32	72629-94-8	
PFUnA	2.5	ug/kg	0.10	0.034	1	10/01/24 13:43	10/02/24 17:32	2058-94-8	
Surrogates									
13C2-PFDoA (S)	53	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C2-PFTA (S)	47	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C24:2FTS (S)	72	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C26:2FTS (S)	163	%	25-150		1	10/01/24 13:43	10/02/24 17:32		S0
13C28:2FTS (S)	192	%	25-150		1	10/01/24 13:43	10/02/24 17:32		S0
13C2PFHxDA (S)	53	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C3-PFBS (S)	66	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C3-PFHxS (S)	72	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C3HFPO-DA (S)	76	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C4-PFBA (S)	61	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C4-PFHpA (S)	65	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C5-PFHxA (S)	48	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C5-PFPeA (S)	52	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C6-PFDA (S)	47	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C7-PFUdA (S)	67	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C8-PFOA (S)	28	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C8-PFOS (S)	58	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C8-PFOSA (S)	53	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
13C9-PFNA (S)	61	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
d3-MeFOSAA (S)	51	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
d3-NMeFOSA (S)	41	%	10-150		1	10/01/24 13:43	10/02/24 17:32		
d5-EtFOSAA (S)	64	%	25-150		1	10/01/24 13:43	10/02/24 17:32		
d5-NEtFOSA (S)	34	%	10-150		1	10/01/24 13:43	10/02/24 17:32		
d7-NMeFOSE (S)	39	%	10-150		1	10/01/24 13:43	10/02/24 17:32		
d9-NEtFOSE (S)	37	%	10-150		1	10/01/24 13:43	10/02/24 17:32		

Percent Moisture

Analytical Method: ASTM D2974-87
Pace Analytical Services - Green Bay

Percent Moisture	3.2	%	0.10	0.10	1		09/17/24 13:05		
------------------	-----	---	------	------	---	--	----------------	--	--

Sample: **SAMPLE 2** Lab ID: **40283990002** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Arsenic	0.068	mg/L	0.025	0.0083	1	09/18/24 11:24	09/18/24 13:33	7440-38-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 2** Lab ID: **40283990002** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Barium	0.20	mg/L	0.0050	0.0015	1	09/18/24 11:24	09/18/24 13:33	7440-39-3	
Cadmium	0.0055	mg/L	0.0050	0.0013	1	09/18/24 11:24	09/18/24 13:33	7440-43-9	
Chromium	<0.0025	mg/L	0.010	0.0025	1	09/18/24 11:24	09/18/24 13:33	7440-47-3	
Lead	<0.0059	mg/L	0.020	0.0059	1	09/18/24 11:24	09/18/24 13:33	7439-92-1	
Selenium	<0.012	mg/L	0.040	0.012	1	09/18/24 11:24	09/18/24 13:33	7782-49-2	
Silver	<0.0032	mg/L	0.010	0.0032	1	09/18/24 11:24	09/18/24 13:33	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	09/18/24 10:55	09/18/24 14:14	7439-97-6	1q,2q
8270E MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270E Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
1,4-Dichlorobenzene	<17.8	ug/L	50.0	17.8	1	09/18/24 12:31	09/19/24 11:19	106-46-7	
2,4-Dinitrotoluene	<11.9	ug/L	50.0	11.9	1	09/18/24 12:31	09/19/24 11:19	121-14-2	
Hexachloro-1,3-butadiene	<16.4	ug/L	50.0	16.4	1	09/18/24 12:31	09/19/24 11:19	87-68-3	
Hexachlorobenzene	<25.2	ug/L	50.0	25.2	1	09/18/24 12:31	09/19/24 11:19	118-74-1	
Hexachloroethane	<15.1	ug/L	50.0	15.1	1	09/18/24 12:31	09/19/24 11:19	67-72-1	
2-Methylphenol(o-Cresol)	<7.7	ug/L	50.0	7.7	1	09/18/24 12:31	09/19/24 11:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	<6.0	ug/L	50.0	6.0	1	09/18/24 12:31	09/19/24 11:19		
Nitrobenzene	<15.7	ug/L	50.0	15.7	1	09/18/24 12:31	09/19/24 11:19	98-95-3	
Pentachlorophenol	<16.3	ug/L	50.0	16.3	1	09/18/24 12:31	09/19/24 11:19	87-86-5	
Pyridine	<73.0	ug/L	100	73.0	1	09/18/24 12:31	09/19/24 11:19	110-86-1	
2,4,5-Trichlorophenol	<18.2	ug/L	50.0	18.2	1	09/18/24 12:31	09/19/24 11:19	95-95-4	
2,4,6-Trichlorophenol	<20.0	ug/L	50.0	20.0	1	09/18/24 12:31	09/19/24 11:19	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	99	%	41-134		1	09/18/24 12:31	09/19/24 11:19	4165-60-0	
2-Fluorobiphenyl (S)	77	%	25-130		1	09/18/24 12:31	09/19/24 11:19	321-60-8	
2,4,6-Tribromophenol (S)	120	%	10-163		1	09/18/24 12:31	09/19/24 11:19	118-79-6	
Phenol-d6 (S)	34	%	10-130		1	09/18/24 12:31	09/19/24 11:19	13127-88-3	
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Benzene	<3.0	ug/L	10.0	3.0	10		09/18/24 22:10	71-43-2	
2-Butanone (MEK)	<65.2	ug/L	250	65.2	10		09/18/24 22:10	78-93-3	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		09/18/24 22:10	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		09/18/24 22:10	108-90-7	
Chloroform	<5.0	ug/L	50.0	5.0	10		09/18/24 22:10	67-66-3	
1,2-Dichloroethane	<2.9	ug/L	10.0	2.9	10		09/18/24 22:10	107-06-2	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		09/18/24 22:10	75-35-4	
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		09/18/24 22:10	127-18-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 2** Lab ID: **40283990002** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Trichloroethene	<3.2	ug/L	10.0	3.2	10		09/18/24 22:10	79-01-6	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		09/18/24 22:10	75-01-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%			10		09/18/24 22:10	2199-69-1	
4-Bromofluorobenzene (S)	102	%			10		09/18/24 22:10	460-00-4	
Toluene-d8 (S)	98	%			10		09/18/24 22:10	2037-26-5	
WI ID SL									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
10:2 FTS	143	ug/kg	9.9	2.6	100	10/01/24 13:43	10/03/24 15:45	120226-60-0	
11CI-PF3OUdS	<0.018	ug/kg	0.096	0.018	1	10/01/24 13:43	10/02/24 17:40	763051-92-9	
4:2 FTS	1.2	ug/kg	0.096	0.013	1	10/01/24 13:43	10/02/24 17:40	757124-72-4	
6:2 FTS	182	ug/kg	9.7	2.1	100	10/01/24 13:43	10/03/24 15:45	27619-97-2	L1
8:2 FTS	61.1	ug/kg	9.9	4.1	100	10/01/24 13:43	10/03/24 15:45	39108-34-4	
9CI-PF3ONS	<0.018	ug/kg	0.095	0.018	1	10/01/24 13:43	10/02/24 17:40	756426-58-1	
ADONA	<0.011	ug/kg	0.097	0.011	1	10/01/24 13:43	10/02/24 17:40	919005-14-4	
HFPO-DA	<0.018	ug/kg	0.10	0.018	1	10/01/24 13:43	10/02/24 17:40	13252-13-6	
NEtFOSAA	0.16	ug/kg	0.10	0.017	1	10/01/24 13:43	10/02/24 17:40	2991-50-6	
NEtFOSA	0.034J	ug/kg	0.10	0.023	1	10/01/24 13:43	10/02/24 17:40	4151-50-2	
NEtFOSE	0.092J	ug/kg	0.10	0.021	1	10/01/24 13:43	10/02/24 17:40	1691-99-2	
NMeFOSAA	21.7	ug/kg	1.0	0.43	10	10/01/24 13:43	10/03/24 15:38	2355-31-9	
NMeFOSA	0.59	ug/kg	0.10	0.037	1	10/01/24 13:43	10/02/24 17:40	31506-32-8	
NMeFOSE	7.8	ug/kg	0.10	0.020	1	10/01/24 13:43	10/02/24 17:40	24448-09-7	
PFBS	<0.013	ug/kg	0.091	0.013	1	10/01/24 13:43	10/02/24 17:40	375-73-5	
PFDA	2.7	ug/kg	0.10	0.018	1	10/01/24 13:43	10/02/24 17:40	335-76-2	
PFHxA	54.1	ug/kg	1.0	0.15	10	10/01/24 13:43	10/03/24 15:38	307-24-4	
PFBA	9.5	ug/kg	0.10	0.031	1	10/01/24 13:43	10/02/24 17:40	375-22-4	
PFDS	0.32	ug/kg	0.099	0.030	1	10/01/24 13:43	10/02/24 17:40	335-77-3	
PFDoS	<0.024	ug/kg	0.099	0.024	1	10/01/24 13:43	10/02/24 17:40	79780-39-5	
PFHpS	<0.024	ug/kg	0.097	0.024	1	10/01/24 13:43	10/02/24 17:40	375-92-8	
PFHxDA	1.2	ug/kg	0.10	0.015	1	10/01/24 13:43	10/02/24 17:40	67905-19-5	
PFNS	<0.028	ug/kg	0.098	0.028	1	10/01/24 13:43	10/02/24 17:40	68259-12-1	
PFODA	0.081J	ug/kg	0.10	0.038	1	10/01/24 13:43	10/02/24 17:40	16517-11-6	
PFOSA	1.6	ug/kg	0.10	0.015	1	10/01/24 13:43	10/02/24 17:40	754-91-6	
PFPeA	15.4	ug/kg	1.0	0.18	10	10/01/24 13:43	10/03/24 15:38	2706-90-3	
PFPeS	<0.012	ug/kg	0.096	0.012	1	10/01/24 13:43	10/02/24 17:40	2706-91-4	
PFDoA	17.2	ug/kg	1.0	0.24	10	10/01/24 13:43	10/03/24 15:38	307-55-1	
PFHpA	9.8	ug/kg	0.10	0.010	1	10/01/24 13:43	10/02/24 17:40	375-85-9	
PFHxS	0.041J	ug/kg	0.093	0.011	1	10/01/24 13:43	10/02/24 17:40	355-46-4	
PFNA	1.3	ug/kg	0.10	0.019	1	10/01/24 13:43	10/02/24 17:40	375-95-1	
PFOS	3.6	ug/kg	0.095	0.044	1	10/01/24 13:43	10/02/24 17:40	1763-23-1	
PFOA	2.9	ug/kg	0.10	0.012	1	10/01/24 13:43	10/02/24 17:40	335-67-1	
PFTeDA	12.2	ug/kg	1.0	0.16	10	10/01/24 13:43	10/03/24 15:38	376-06-7	
PFTrDA	9.0	ug/kg	1.0	0.22	10	10/01/24 13:43	10/03/24 15:38	72629-94-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 2** Lab ID: **40283990002** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID SL Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis									
PFUnA	2.4	ug/kg	0.10	0.034	1	10/01/24 13:43	10/02/24 17:40	2058-94-8	
Surrogates									
13C2-PFDoA (S)	45	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C2-PFTA (S)	47	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C24:2FTS (S)	71	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C26:2FTS (S)	155	%	25-150		1	10/01/24 13:43	10/02/24 17:40		S0
13C28:2FTS (S)	164	%	25-150		1	10/01/24 13:43	10/02/24 17:40		S0
13C2PFHxDA (S)	48	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C3-PFBS (S)	70	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C3-PFHxS (S)	77	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C3HFPO-DA (S)	76	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C4-PFBA (S)	68	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C4-PFHpA (S)	71	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C5-PFHxA (S)	64	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C5-PFPeA (S)	64	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C6-PFDA (S)	39	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C7-PFUdA (S)	61	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C8-PFOA (S)	44	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C8-PFOS (S)	60	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C8-PFOSA (S)	51	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
13C9-PFNA (S)	67	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
d3-MeFOSAA (S)	47	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
d3-NMeFOSA (S)	36	%	10-150		1	10/01/24 13:43	10/02/24 17:40		
d5-EtFOSAA (S)	52	%	25-150		1	10/01/24 13:43	10/02/24 17:40		
d5-NEtFOSA (S)	27	%	10-150		1	10/01/24 13:43	10/02/24 17:40		
d7-NMeFOSE (S)	33	%	10-150		1	10/01/24 13:43	10/02/24 17:40		
d9-NEtFOSE (S)	29	%	10-150		1	10/01/24 13:43	10/02/24 17:40		

Percent Moisture

Analytical Method: ASTM D2974-87
Pace Analytical Services - Green Bay

Percent Moisture	2.9	%	0.10	0.10	1		09/17/24 13:05		
------------------	------------	---	------	------	---	--	----------------	--	--

Sample: **SAMPLE 3** Lab ID: **40283990003** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 09/17/24 14:25 Pace Analytical Services - Green Bay									
Arsenic	2.2	mg/L	0.025	0.0083	1	09/18/24 11:24	09/18/24 13:34	7440-38-2	
Barium	0.15	mg/L	0.0050	0.0015	1	09/18/24 11:24	09/18/24 13:34	7440-39-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 3** Lab ID: **40283990003** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, TCLP									
Analytical Method: EPA 6010D Preparation Method: EPA 3015A									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Cadmium	0.0032J	mg/L	0.0050	0.0013	1	09/18/24 11:24	09/18/24 13:34	7440-43-9	
Chromium	<0.0025	mg/L	0.010	0.0025	1	09/18/24 11:24	09/18/24 13:34	7440-47-3	
Lead	<0.0059	mg/L	0.020	0.0059	1	09/18/24 11:24	09/18/24 13:34	7439-92-1	
Selenium	<0.012	mg/L	0.040	0.012	1	09/18/24 11:24	09/18/24 13:34	7782-49-2	
Silver	<0.0032	mg/L	0.010	0.0032	1	09/18/24 11:24	09/18/24 13:34	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	09/18/24 10:55	09/18/24 14:16	7439-97-6	1q,2q
8270E MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270E Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
1,4-Dichlorobenzene	<17.8	ug/L	50.0	17.8	1	09/18/24 12:31	09/19/24 11:41	106-46-7	
2,4-Dinitrotoluene	<11.9	ug/L	50.0	11.9	1	09/18/24 12:31	09/19/24 11:41	121-14-2	
Hexachloro-1,3-butadiene	<16.4	ug/L	50.0	16.4	1	09/18/24 12:31	09/19/24 11:41	87-68-3	
Hexachlorobenzene	<25.2	ug/L	50.0	25.2	1	09/18/24 12:31	09/19/24 11:41	118-74-1	
Hexachloroethane	<15.1	ug/L	50.0	15.1	1	09/18/24 12:31	09/19/24 11:41	67-72-1	
2-Methylphenol(o-Cresol)	<7.7	ug/L	50.0	7.7	1	09/18/24 12:31	09/19/24 11:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	<6.0	ug/L	50.0	6.0	1	09/18/24 12:31	09/19/24 11:41		
Nitrobenzene	<15.7	ug/L	50.0	15.7	1	09/18/24 12:31	09/19/24 11:41	98-95-3	
Pentachlorophenol	<16.3	ug/L	50.0	16.3	1	09/18/24 12:31	09/19/24 11:41	87-86-5	
Pyridine	<73.0	ug/L	100	73.0	1	09/18/24 12:31	09/19/24 11:41	110-86-1	
2,4,5-Trichlorophenol	<18.2	ug/L	50.0	18.2	1	09/18/24 12:31	09/19/24 11:41	95-95-4	
2,4,6-Trichlorophenol	<20.0	ug/L	50.0	20.0	1	09/18/24 12:31	09/19/24 11:41	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	98	%	41-134		1	09/18/24 12:31	09/19/24 11:41	4165-60-0	
2-Fluorobiphenyl (S)	78	%	25-130		1	09/18/24 12:31	09/19/24 11:41	321-60-8	
2,4,6-Tribromophenol (S)	122	%	10-163		1	09/18/24 12:31	09/19/24 11:41	118-79-6	
Phenol-d6 (S)	33	%	10-130		1	09/18/24 12:31	09/19/24 11:41	13127-88-3	
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Benzene	<3.0	ug/L	10.0	3.0	10		09/18/24 22:27	71-43-2	
2-Butanone (MEK)	<65.2	ug/L	250	65.2	10		09/18/24 22:27	78-93-3	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		09/18/24 22:27	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		09/18/24 22:27	108-90-7	
Chloroform	<5.0	ug/L	50.0	5.0	10		09/18/24 22:27	67-66-3	
1,2-Dichloroethane	<2.9	ug/L	10.0	2.9	10		09/18/24 22:27	107-06-2	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		09/18/24 22:27	75-35-4	
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		09/18/24 22:27	127-18-4	
Trichloroethene	<3.2	ug/L	10.0	3.2	10		09/18/24 22:27	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 3** Lab ID: **40283990003** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 09/17/24 14:25									
Pace Analytical Services - Green Bay									
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		09/18/24 22:27	75-01-4	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	104	%			10		09/18/24 22:27	2199-69-1	
4-Bromofluorobenzene (S)	104	%			10		09/18/24 22:27	460-00-4	
Toluene-d8 (S)	99	%			10		09/18/24 22:27	2037-26-5	
WI ID SL									
Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178									
Pace Analytical Services - Minneapolis									
10:2 FTS	151	ug/kg	0.99	0.26	10	10/01/24 13:43	10/03/24 15:52	120226-60-0	E
11Cl-PF3OUdS	<0.018	ug/kg	0.096	0.018	1	10/01/24 13:43	10/02/24 17:47	763051-92-9	
4:2 FTS	0.78	ug/kg	0.096	0.013	1	10/01/24 13:43	10/02/24 17:47	757124-72-4	
6:2 FTS	257	ug/kg	9.7	2.1	100	10/01/24 13:43	10/03/24 16:00	27619-97-2	L1
8:2 FTS	70.8	ug/kg	0.99	0.41	10	10/01/24 13:43	10/03/24 15:52	39108-34-4	
9Cl-PF3ONS	<0.019	ug/kg	0.095	0.019	1	10/01/24 13:43	10/02/24 17:47	756426-58-1	
ADONA	<0.011	ug/kg	0.097	0.011	1	10/01/24 13:43	10/02/24 17:47	919005-14-4	
HFPO-DA	<0.018	ug/kg	0.10	0.018	1	10/01/24 13:43	10/02/24 17:47	13252-13-6	
NEtFOSAA	0.15	ug/kg	0.10	0.018	1	10/01/24 13:43	10/02/24 17:47	2991-50-6	
NEtFOSA	0.034J	ug/kg	0.10	0.023	1	10/01/24 13:43	10/02/24 17:47	4151-50-2	
NEtFOSE	0.087J	ug/kg	0.10	0.021	1	10/01/24 13:43	10/02/24 17:47	1691-99-2	
NMeFOSAA	21.9	ug/kg	1.0	0.43	10	10/01/24 13:43	10/03/24 15:52	2355-31-9	
NMeFOSA	0.49	ug/kg	0.10	0.037	1	10/01/24 13:43	10/02/24 17:47	31506-32-8	
NMeFOSE	6.4	ug/kg	0.10	0.020	1	10/01/24 13:43	10/02/24 17:47	24448-09-7	
PFBS	<0.013	ug/kg	0.091	0.013	1	10/01/24 13:43	10/02/24 17:47	375-73-5	
PFDA	2.1	ug/kg	0.10	0.018	1	10/01/24 13:43	10/02/24 17:47	335-76-2	
PFHxA	35.2	ug/kg	1.0	0.15	10	10/01/24 13:43	10/03/24 15:52	307-24-4	
PFBA	6.7	ug/kg	0.10	0.031	1	10/01/24 13:43	10/02/24 17:47	375-22-4	
PFDS	0.44	ug/kg	0.099	0.030	1	10/01/24 13:43	10/02/24 17:47	335-77-3	
PFDoS	<0.024	ug/kg	0.099	0.024	1	10/01/24 13:43	10/02/24 17:47	79780-39-5	
PFHpS	<0.024	ug/kg	0.097	0.024	1	10/01/24 13:43	10/02/24 17:47	375-92-8	
PFHxDA	1.3	ug/kg	0.10	0.015	1	10/01/24 13:43	10/02/24 17:47	67905-19-5	
PFNS	<0.028	ug/kg	0.098	0.028	1	10/01/24 13:43	10/02/24 17:47	68259-12-1	
PFODA	0.22	ug/kg	0.10	0.038	1	10/01/24 13:43	10/02/24 17:47	16517-11-6	
PFOSA	1.7	ug/kg	0.10	0.015	1	10/01/24 13:43	10/02/24 17:47	754-91-6	
PFPeA	13.7	ug/kg	1.0	0.18	10	10/01/24 13:43	10/03/24 15:52	2706-90-3	
PFPeS	<0.012	ug/kg	0.096	0.012	1	10/01/24 13:43	10/02/24 17:47	2706-91-4	
PFDoA	15.3	ug/kg	1.0	0.24	10	10/01/24 13:43	10/03/24 15:52	307-55-1	
PFHpA	6.1	ug/kg	0.10	0.010	1	10/01/24 13:43	10/02/24 17:47	375-85-9	
PFHxS	0.043J	ug/kg	0.093	0.011	1	10/01/24 13:43	10/02/24 17:47	355-46-4	
PFNA	1.0	ug/kg	0.10	0.019	1	10/01/24 13:43	10/02/24 17:47	375-95-1	
PFOS	4.0	ug/kg	0.095	0.044	1	10/01/24 13:43	10/02/24 17:47	1763-23-1	
PFOA	2.5	ug/kg	0.10	0.013	1	10/01/24 13:43	10/02/24 17:47	335-67-1	
PFTeDA	9.9	ug/kg	1.0	0.16	10	10/01/24 13:43	10/03/24 15:52	376-06-7	
PFTTrDA	9.0	ug/kg	0.10	0.022	1	10/01/24 13:43	10/02/24 17:47	72629-94-8	
PFUnA	1.9	ug/kg	0.10	0.035	1	10/01/24 13:43	10/02/24 17:47	2058-94-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: Waste Disposal
Pace Project No.: 40283990

Sample: **SAMPLE 3** Lab ID: **40283990003** Collected: 09/10/24 14:30 Received: 09/12/24 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WI ID SL	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis									
Surrogates										
13C2-PFD _o A (S)	44	%	25-150		1	10/01/24 13:43	10/02/24 17:47		S0	
13C2-PFTA (S)	48	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C24:2FTS (S)	69	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C26:2FTS (S)	138	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C28:2FTS (S)	174	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C2PFH _x DA (S)	46	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C3-PFBS (S)	68	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C3-PFH _x S (S)	76	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C3HFPO-DA (S)	70	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C4-PFBA (S)	65	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C4-PFH _p A (S)	68	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C5-PFH _x A (S)	65	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C5-PFPeA (S)	61	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C6-PFDA (S)	44	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C7-PFU _d A (S)	61	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C8-PFOA (S)	48	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C8-PFOS (S)	51	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C8-PFOSA (S)	48	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
13C9-PFNA (S)	62	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
d3-MeFOSAA (S)	47	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
d3-NMeFOSA (S)	33	%	10-150		1	10/01/24 13:43	10/02/24 17:47			
d5-EtFOSAA (S)	55	%	25-150		1	10/01/24 13:43	10/02/24 17:47			
d5-NEtFOSA (S)	28	%	10-150		1	10/01/24 13:43	10/02/24 17:47			
d7-NMeFOSE (S)	32	%	10-150		1	10/01/24 13:43	10/02/24 17:47			
d9-NEtFOSE (S)	24	%	10-150		1	10/01/24 13:43	10/02/24 17:47			
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	2.7	%	0.10	0.10	1		09/17/24 13:05			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal
Pace Project No.: 40283990

QC Batch: 484656 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40283990001, 40283990002, 40283990003

METHOD BLANK: 2775169 Matrix: Water
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	09/18/24 13:34	

METHOD BLANK: 2774310 Matrix: Water
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	09/18/24 14:04	

METHOD BLANK: 2774886 Matrix: Water
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	09/18/24 14:18	

METHOD BLANK: 2775186 Matrix: Water
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	09/18/24 14:30	

LABORATORY CONTROL SAMPLE: 2775170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2775171 2775172

Parameter	Units	40284031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.000066 mg/L	5	5	5.7	5.1	114	103	85-115	10	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal

Pace Project No.: 40283990

MATRIX SPIKE SAMPLE:		2775174					
Parameter	Units	40284011001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.066	5	5.7	114	85-115	

MATRIX SPIKE SAMPLE:		2775324					
Parameter	Units	40284036001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.00066 mg/L	50	32.3	65	85-115	M0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal
Pace Project No.: 40283990

QC Batch: 484718 Analysis Method: EPA 6010D
QC Batch Method: EPA 3015A Analysis Description: 6010D MET TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40283990001, 40283990002, 40283990003

METHOD BLANK: 2775434 Matrix: Water
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	09/18/24 13:18	
Barium	mg/L	<0.0015	0.0050	09/18/24 13:18	
Cadmium	mg/L	<0.0013	0.0050	09/18/24 13:18	
Chromium	mg/L	<0.0025	0.010	09/18/24 13:18	
Lead	mg/L	<0.0059	0.020	09/18/24 13:18	
Selenium	mg/L	<0.012	0.040	09/18/24 13:18	
Silver	mg/L	<0.0032	0.010	09/18/24 13:18	

METHOD BLANK: 2774885 Matrix: Solid
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	09/18/24 13:49	
Barium	mg/L	0.0018J	0.0050	09/18/24 13:49	
Cadmium	mg/L	<0.0013	0.0050	09/18/24 13:49	
Chromium	mg/L	<0.0025	0.010	09/18/24 13:49	
Lead	mg/L	<0.0059	0.020	09/18/24 13:49	
Selenium	mg/L	<0.012	0.040	09/18/24 13:49	
Silver	mg/L	<0.0032	0.010	09/18/24 13:49	

METHOD BLANK: 2775185 Matrix: Solid
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0083	0.025	09/18/24 13:58	
Barium	mg/L	<0.0015	0.0050	09/18/24 13:58	
Cadmium	mg/L	<0.0013	0.0050	09/18/24 13:58	
Chromium	mg/L	<0.0025	0.010	09/18/24 13:58	
Lead	mg/L	<0.0059	0.020	09/18/24 13:58	
Selenium	mg/L	<0.012	0.040	09/18/24 13:58	
Silver	mg/L	<0.0032	0.010	09/18/24 13:58	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal
Pace Project No.: 40283990

LABORATORY CONTROL SAMPLE: 2775435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.28	0.26	93	80-120	
Barium	mg/L	0.28	0.27	99	80-120	
Cadmium	mg/L	0.28	0.28	100	80-120	
Chromium	mg/L	0.28	0.27	98	80-120	
Lead	mg/L	0.28	0.28	101	80-120	
Selenium	mg/L	0.28	0.29	104	80-120	
Silver	mg/L	0.14	0.14	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2775436 2775437

Parameter	Units	40283924011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.0083	0.28	0.28	0.27	0.27	98	97	75-125	1	20	
Barium	mg/L	0.67	0.28	0.28	0.94	0.93	98	96	75-125	1	20	
Cadmium	mg/L	<0.0013	0.28	0.28	0.29	0.28	103	102	75-125	1	20	
Chromium	mg/L	<0.0025	0.28	0.28	0.28	0.28	99	99	75-125	0	20	
Lead	mg/L	<0.0059	0.28	0.28	0.28	0.28	102	100	75-125	2	20	
Selenium	mg/L	<0.012	0.28	0.28	0.29	0.29	102	102	75-125	0	20	
Silver	mg/L	<0.0032	0.14	0.14	0.14	0.14	101	100	75-125	1	20	

MATRIX SPIKE SAMPLE: 2775456

Parameter	Units	40284036001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	3.1	0.28	3.4	101	75-125	
Barium	mg/L	0.75	0.28	1.0	101	75-125	
Cadmium	mg/L	<0.027	0.28	0.30	106	75-125	
Chromium	mg/L	0.46	0.28	0.75	104	75-125	
Lead	mg/L	<0.12	0.28	0.30J	109	75-125	
Selenium	mg/L	<0.24	0.28	0.37J	71	75-125	M0
Silver	mg/L	<0.064	0.14	0.15J	106	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal
Pace Project No.: 40283990

QC Batch: 484723 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40283990001, 40283990002, 40283990003

METHOD BLANK: 2775471 Matrix: Water
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<0.58	1.0	09/18/24 16:09	
1,2-Dichloroethane	ug/L	<0.29	1.0	09/18/24 16:09	
2-Butanone (MEK)	ug/L	<6.5	25.0	09/18/24 16:09	
Benzene	ug/L	<0.30	1.0	09/18/24 16:09	
Carbon tetrachloride	ug/L	<0.37	1.0	09/18/24 16:09	
Chlorobenzene	ug/L	<0.86	1.0	09/18/24 16:09	
Chloroform	ug/L	<0.50	5.0	09/18/24 16:09	
Tetrachloroethene	ug/L	<0.41	1.0	09/18/24 16:09	
Trichloroethene	ug/L	<0.32	1.0	09/18/24 16:09	
Vinyl chloride	ug/L	<0.17	1.0	09/18/24 16:09	
1,2-Dichlorobenzene-d4 (S)	%	102		09/18/24 16:09	
4-Bromofluorobenzene (S)	%	100		09/18/24 16:09	
Toluene-d8 (S)	%	97		09/18/24 16:09	

METHOD BLANK: 2774888 Matrix: Solid
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<5.8	10.0	09/18/24 21:01	
1,2-Dichloroethane	ug/L	<2.9	10.0	09/18/24 21:01	
2-Butanone (MEK)	ug/L	<65.2	250	09/18/24 21:01	
Benzene	ug/L	<3.0	10.0	09/18/24 21:01	
Carbon tetrachloride	ug/L	<3.7	10.0	09/18/24 21:01	
Chlorobenzene	ug/L	<8.6	10.0	09/18/24 21:01	
Chloroform	ug/L	<5.0	50.0	09/18/24 21:01	
Tetrachloroethene	ug/L	<4.1	10.0	09/18/24 21:01	
Trichloroethene	ug/L	<3.2	10.0	09/18/24 21:01	
Vinyl chloride	ug/L	<1.7	10.0	09/18/24 21:01	
1,2-Dichlorobenzene-d4 (S)	%	101		09/18/24 21:01	
4-Bromofluorobenzene (S)	%	102		09/18/24 21:01	
Toluene-d8 (S)	%	99		09/18/24 21:01	

LABORATORY CONTROL SAMPLE: 2775472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	44.8	90	73-140	
1,2-Dichloroethane	ug/L	50	59.8	120	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal
Pace Project No.: 40283990

LABORATORY CONTROL SAMPLE: 2775472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	53.0	106	70-130	
Carbon tetrachloride	ug/L	50	48.2	96	70-135	
Chlorobenzene	ug/L	50	49.7	99	70-130	
Chloroform	ug/L	50	50.6	101	80-124	
Tetrachloroethene	ug/L	50	47.5	95	70-130	
Trichloroethene	ug/L	50	51.7	103	70-130	
Vinyl chloride	ug/L	50	50.9	102	51-145	
1,2-Dichlorobenzene-d4 (S)	%			100		
4-Bromofluorobenzene (S)	%			104		
Toluene-d8 (S)	%			101		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2775788 2775789

Parameter	Units	40284023001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
1,1-Dichloroethene	ug/L	<5.8	500	500	500	442	445	88	89	69-146	1	20	
1,2-Dichloroethane	ug/L	<2.9	500	500	500	582	583	116	117	70-130	0	20	
Benzene	ug/L	<3.0	500	500	500	514	519	103	104	70-130	1	20	
Carbon tetrachloride	ug/L	<3.7	500	500	500	484	484	97	97	70-135	0	20	
Chlorobenzene	ug/L	<8.6	500	500	500	492	498	98	100	70-130	1	20	
Chloroform	ug/L	<5.0	500	500	500	501	504	100	101	80-126	1	20	
Tetrachloroethene	ug/L	<4.1	500	500	500	465	471	93	94	70-131	1	20	
Trichloroethene	ug/L	<3.2	500	500	500	502	511	100	102	70-130	2	20	
Vinyl chloride	ug/L	<1.7	500	500	500	447	448	89	90	45-147	0	20	
1,2-Dichlorobenzene-d4 (S)	%							100	100				
4-Bromofluorobenzene (S)	%							102	102				
Toluene-d8 (S)	%							99	99				

MATRIX SPIKE SAMPLE: 2775790

Parameter	Units	40284033003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	<5.8	500	462	92	69-146	
1,2-Dichloroethane	ug/L	<2.9	500	603	121	70-130	
Benzene	ug/L	<3.0	500	536	107	70-130	
Carbon tetrachloride	ug/L	<3.7	500	507	101	70-135	
Chlorobenzene	ug/L	<8.6	500	504	101	70-130	
Chloroform	ug/L	<5.0	500	517	103	80-126	
Tetrachloroethene	ug/L	<4.1	500	473	95	70-131	
Trichloroethene	ug/L	<3.2	500	525	105	70-130	
Vinyl chloride	ug/L	<1.7	500	464	93	45-147	
1,2-Dichlorobenzene-d4 (S)	%					101	
4-Bromofluorobenzene (S)	%					104	
Toluene-d8 (S)	%					99	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal

Pace Project No.: 40283990

MATRIX SPIKE SAMPLE:		2775791					
Parameter	Units	40284033004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	<5.8	500	443	89	69-146	
1,2-Dichloroethane	ug/L	<2.9	500	588	118	70-130	
Benzene	ug/L	161	500	684	105	70-130	
Carbon tetrachloride	ug/L	<3.7	500	487	97	70-135	
Chlorobenzene	ug/L	<8.6	500	505	101	70-130	
Chloroform	ug/L	<5.0	500	498	100	80-126	
Tetrachloroethene	ug/L	<4.1	500	475	95	70-131	
Trichloroethene	ug/L	<3.2	500	509	102	70-130	
Vinyl chloride	ug/L	<1.7	500	442	88	45-147	
1,2-Dichlorobenzene-d4 (S)	%				100		
4-Bromofluorobenzene (S)	%				102		
Toluene-d8 (S)	%				100		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal
Pace Project No.: 40283990

QC Batch: 484715 Analysis Method: EPA 8270E
QC Batch Method: EPA 3510 Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40283990001, 40283990002, 40283990003

METHOD BLANK: 2775415 Matrix: Water
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	<3.6	10.0	09/19/24 07:58	
2,4,5-Trichlorophenol	ug/L	<3.6	10.0	09/19/24 07:58	
2,4,6-Trichlorophenol	ug/L	<4.0	10.0	09/19/24 07:58	
2,4-Dinitrotoluene	ug/L	<2.4	10.0	09/19/24 07:58	
2-Methylphenol(o-Cresol)	ug/L	<1.5	10.0	09/19/24 07:58	
3&4-Methylphenol(m&p Cresol)	ug/L	<1.2	10.0	09/19/24 07:58	
Hexachloro-1,3-butadiene	ug/L	<3.3	10.0	09/19/24 07:58	
Hexachlorobenzene	ug/L	<5.0	10.0	09/19/24 07:58	
Hexachloroethane	ug/L	<3.0	10.0	09/19/24 07:58	
Nitrobenzene	ug/L	<3.1	10.0	09/19/24 07:58	
Pentachlorophenol	ug/L	<3.3	10.0	09/19/24 07:58	
Pyridine	ug/L	<14.6	20.0	09/19/24 07:58	
2,4,6-Tribromophenol (S)	%	118	10-163	09/19/24 07:58	
2-Fluorobiphenyl (S)	%	80	25-130	09/19/24 07:58	
Nitrobenzene-d5 (S)	%	100	41-134	09/19/24 07:58	
Phenol-d6 (S)	%	37	10-130	09/19/24 07:58	

METHOD BLANK: 2774887 Matrix: Water
Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	<17.8	50.0	09/19/24 12:03	
2,4,5-Trichlorophenol	ug/L	<18.2	50.0	09/19/24 12:03	
2,4,6-Trichlorophenol	ug/L	<20.0	50.0	09/19/24 12:03	
2,4-Dinitrotoluene	ug/L	<11.9	50.0	09/19/24 12:03	
2-Methylphenol(o-Cresol)	ug/L	<7.7	50.0	09/19/24 12:03	
3&4-Methylphenol(m&p Cresol)	ug/L	<6.0	50.0	09/19/24 12:03	
Hexachloro-1,3-butadiene	ug/L	<16.4	50.0	09/19/24 12:03	
Hexachlorobenzene	ug/L	<25.2	50.0	09/19/24 12:03	
Hexachloroethane	ug/L	<15.1	50.0	09/19/24 12:03	
Nitrobenzene	ug/L	<15.7	50.0	09/19/24 12:03	
Pentachlorophenol	ug/L	<16.3	50.0	09/19/24 12:03	
Pyridine	ug/L	<73.0	100	09/19/24 12:03	
2,4,6-Tribromophenol (S)	%	120	10-163	09/19/24 12:03	
2-Fluorobiphenyl (S)	%	77	25-130	09/19/24 12:03	
Nitrobenzene-d5 (S)	%	99	41-134	09/19/24 12:03	
Phenol-d6 (S)	%	34	10-130	09/19/24 12:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal
Pace Project No.: 40283990

LABORATORY CONTROL SAMPLE: 2775416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	36.3	73	46-130	
2,4,5-Trichlorophenol	ug/L	50	50.0	100	58-130	
2,4,6-Trichlorophenol	ug/L	50	49.5	99	52-130	
2,4-Dinitrotoluene	ug/L	50	52.1	104	70-130	
2-Methylphenol(o-Cresol)	ug/L	50	44.3	89	66-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	41.4	83	59-130	
Hexachloro-1,3-butadiene	ug/L	50	21.1	42	35-130	
Hexachlorobenzene	ug/L	50	54.8	110	70-136	
Hexachloroethane	ug/L	50	24.6	49	39-130	
Nitrobenzene	ug/L	50	54.2	108	70-130	
Pentachlorophenol	ug/L	50	49.3	99	40-130	
Pyridine	ug/L	50	34.3	69	31-130	
2,4,6-Tribromophenol (S)	%			127	10-163	
2-Fluorobiphenyl (S)	%			86	25-130	
Nitrobenzene-d5 (S)	%			104	41-134	
Phenol-d6 (S)	%			43	10-130	

MATRIX SPIKE SAMPLE: 2775417

Parameter	Units	40284023001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<17.8	250	74.7	30	29-130	
2,4,5-Trichlorophenol	ug/L	<18.2	250	250	100	10-131	
2,4,6-Trichlorophenol	ug/L	<20.0	250	254	102	10-130	
2,4-Dinitrotoluene	ug/L	<11.9	250	264	106	48-130	
2-Methylphenol(o-Cresol)	ug/L	<7.7	250	215	86	36-130	
3&4-Methylphenol(m&p Cresol)	ug/L	<6.0	250	200	80	20-130	
Hexachloro-1,3-butadiene	ug/L	<16.4	250	<16.4	3	10-130	M1
Hexachlorobenzene	ug/L	<25.2	250	262	105	51-136	
Hexachloroethane	ug/L	<15.1	250	<15.1	6	13-130	M1
Nitrobenzene	ug/L	<15.7	250	267	107	50-132	
Pentachlorophenol	ug/L	<16.3	250	230	92	10-137	
Pyridine	ug/L	<73.0	250	169	68	17-130	
2,4,6-Tribromophenol (S)	%				130	10-163	
2-Fluorobiphenyl (S)	%				74	25-130	
Nitrobenzene-d5 (S)	%				105	41-134	
Phenol-d6 (S)	%				42	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal

Pace Project No.: 40283990

QC Batch: 970611

Analysis Method: ENV-SOP-MIN4-0178

QC Batch Method: ENV-SOP-MIN4-0178

Analysis Description: WI ID SL

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40283990001, 40283990002, 40283990003

METHOD BLANK: 5072204

Matrix: Solid

Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
10:2 FTS	ug/kg	<0.025	0.097	10/02/24 17:11	
11Cl-PF3OUdS	ug/kg	<0.017	0.094	10/02/24 17:11	
4:2 FTS	ug/kg	<0.012	0.094	10/02/24 17:11	
6:2 FTS	ug/kg	<0.020	0.095	10/02/24 17:11	
8:2 FTS	ug/kg	<0.040	0.097	10/02/24 17:11	
9Cl-PF3ONS	ug/kg	<0.018	0.093	10/02/24 17:11	
ADONA	ug/kg	<0.011	0.095	10/02/24 17:11	
HFPO-DA	ug/kg	<0.018	0.10	10/02/24 17:11	
NEtFOSA	ug/kg	<0.023	0.10	10/02/24 17:11	
NEtFOSAA	ug/kg	<0.017	0.10	10/02/24 17:11	
NEtFOSE	ug/kg	<0.021	0.10	10/02/24 17:11	
NMeFOSA	ug/kg	<0.036	0.10	10/02/24 17:11	
NMeFOSAA	ug/kg	<0.042	0.10	10/02/24 17:11	
NMeFOSE	ug/kg	<0.020	0.10	10/02/24 17:11	
PFBA	ug/kg	<0.030	0.10	10/02/24 17:11	
PFBS	ug/kg	<0.013	0.089	10/02/24 17:11	
PFDA	ug/kg	<0.017	0.10	10/02/24 17:11	
PFDoA	ug/kg	<0.024	0.10	10/02/24 17:11	
PFDoS	ug/kg	<0.024	0.097	10/02/24 17:11	
PFDS	ug/kg	<0.029	0.097	10/02/24 17:11	
PFHpA	ug/kg	<0.010	0.10	10/02/24 17:11	
PFHpS	ug/kg	<0.024	0.095	10/02/24 17:11	
PFHxA	ug/kg	<0.014	0.10	10/02/24 17:11	
PFHxDA	ug/kg	<0.014	0.10	10/02/24 17:11	
PFHxS	ug/kg	<0.011	0.091	10/02/24 17:11	
PFNA	ug/kg	<0.018	0.10	10/02/24 17:11	
PFNS	ug/kg	<0.028	0.096	10/02/24 17:11	
PFOA	ug/kg	<0.012	0.10	10/02/24 17:11	
PFODA	ug/kg	<0.037	0.10	10/02/24 17:11	
PFOS	ug/kg	<0.043	0.093	10/02/24 17:11	
PFOSA	ug/kg	<0.015	0.10	10/02/24 17:11	
PFPeA	ug/kg	<0.018	0.10	10/02/24 17:11	
PFPeS	ug/kg	<0.011	0.094	10/02/24 17:11	
PFTeDA	ug/kg	<0.016	0.10	10/02/24 17:11	
PFTTrDA	ug/kg	<0.021	0.10	10/02/24 17:11	
PFUnA	ug/kg	<0.034	0.10	10/02/24 17:11	
13C2-PFDoA (S)	%.	88	25-150	10/02/24 17:11	
13C2-PFTA (S)	%.	88	25-150	10/02/24 17:11	
13C24:2FTS (S)	%.	89	25-150	10/02/24 17:11	
13C26:2FTS (S)	%.	96	25-150	10/02/24 17:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal
Pace Project No.: 40283990

METHOD BLANK: 5072204 Matrix: Solid

Associated Lab Samples: 40283990001, 40283990002, 40283990003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C28:2FTS (S)	%.	122	25-150	10/02/24 17:11	
13C2PFHxDA (S)	%.	86	25-150	10/02/24 17:11	
13C3-PFBS (S)	%.	89	25-150	10/02/24 17:11	
13C3-PFHxS (S)	%.	87	25-150	10/02/24 17:11	
13C3HFPO-DA (S)	%.	96	25-150	10/02/24 17:11	
13C4-PFBA (S)	%.	86	25-150	10/02/24 17:11	
13C4-PFHpA (S)	%.	83	25-150	10/02/24 17:11	
13C5-PFHxA (S)	%.	79	25-150	10/02/24 17:11	
13C5-PFPeA (S)	%.	87	25-150	10/02/24 17:11	
13C6-PFDA (S)	%.	95	25-150	10/02/24 17:11	
13C7-PFUdA (S)	%.	82	25-150	10/02/24 17:11	
13C8-PFOA (S)	%.	87	25-150	10/02/24 17:11	
13C8-PFOS (S)	%.	86	25-150	10/02/24 17:11	
13C8-PFOSA (S)	%.	94	25-150	10/02/24 17:11	
13C9-PFNA (S)	%.	94	25-150	10/02/24 17:11	
d3-MeFOSAA (S)	%.	86	25-150	10/02/24 17:11	
d3-NMeFOSA (S)	%.	91	20-150	10/02/24 17:11	
d5-EtFOSAA (S)	%.	84	25-150	10/02/24 17:11	
d5-NEtFOSA (S)	%.	94	20-150	10/02/24 17:11	
d7-NMeFOSE (S)	%.	99	20-150	10/02/24 17:11	
d9-NEtFOSE (S)	%.	96	20-150	10/02/24 17:11	

LABORATORY CONTROL SAMPLE & LCSD: 5072205

5072206

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
10:2 FTS	ug/kg	0.19	0.16	0.19	83	97	50-150	16	30	
11Cl-PF3OUdS	ug/kg	0.19	0.24	0.23	125	119	50-150	4	30	
4:2 FTS	ug/kg	0.19	0.22	0.23	117	121	50-150	3	30	
6:2 FTS	ug/kg	0.19	0.22	0.80	114	422	50-150	115	30	L1,R1
8:2 FTS	ug/kg	0.19	0.22	0.24	115	126	50-150	9	30	
9Cl-PF3ONS	ug/kg	0.19	0.23	0.22	124	118	50-150	5	30	
ADONA	ug/kg	0.19	0.22	0.22	114	114	50-150	0	30	
HFPO-DA	ug/kg	0.2	0.23	0.23	114	115	50-150	1	30	
NEtFOSA	ug/kg	0.2	0.21	0.24	104	120	50-150	14	30	
NEtFOSAA	ug/kg	0.2	0.24	0.24	119	120	50-150	1	30	
NEtFOSE	ug/kg	0.2	0.22	0.22	108	112	50-150	4	30	
NMeFOSA	ug/kg	0.2	0.22	0.22	110	108	50-150	1	30	
NMeFOSAA	ug/kg	0.2	0.27	0.26	136	128	50-150	6	30	
NMeFOSE	ug/kg	0.2	0.20	0.22	99	109	50-150	9	30	
PFBA	ug/kg	0.2	0.24	0.25	121	123	50-150	2	30	
PFBS	ug/kg	0.18	0.21	0.21	120	118	50-150	2	30	
PFDA	ug/kg	0.2	0.24	0.24	122	118	50-150	3	30	
PFDaA	ug/kg	0.2	0.23	0.23	117	117	50-150	0	30	
PFDoS	ug/kg	0.19	0.24	0.24	123	122	50-150	1	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal

Pace Project No.: 40283990

LABORATORY CONTROL SAMPLE & LCSD: 5072205			5072206							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFDS	ug/kg	0.19	0.27	0.23	141	117	50-150	19	30	
PFHpA	ug/kg	0.2	0.23	0.25	115	124	50-150	7	30	
PFHpS	ug/kg	0.19	0.24	0.24	123	124	50-150	1	30	
PFHxA	ug/kg	0.2	0.25	0.29	126	145	50-150	14	30	
PFHxDA	ug/kg	0.2	0.23	0.23	113	117	50-150	3	30	
PFHxS	ug/kg	0.18	0.21	0.22	114	121	50-150	6	30	
PFNA	ug/kg	0.2	0.22	0.23	112	114	50-150	2	30	
PFNS	ug/kg	0.19	0.22	0.23	116	122	50-150	6	30	
PFOA	ug/kg	0.2	0.25	0.25	124	123	50-150	1	30	
PFODA	ug/kg	0.2	0.23	0.24	117	119	50-150	2	30	
PFOS	ug/kg	0.19	0.25	0.22	132	117	50-150	12	30	
PFOSA	ug/kg	0.2	0.25	0.24	126	118	50-150	6	30	
PFPeA	ug/kg	0.2	0.25	0.26	126	128	50-150	2	30	
PFPeS	ug/kg	0.19	0.22	0.21	116	113	50-150	3	30	
PFTeDA	ug/kg	0.2	0.24	0.23	118	115	50-150	3	30	
PFTrDA	ug/kg	0.2	0.25	0.24	124	118	50-150	5	30	
PFUnA	ug/kg	0.2	0.23	0.22	117	112	50-150	4	30	
13C2-PFDoA (S)	%.				82	83	25-150			
13C2-PFTA (S)	%.				80	80	25-150			
13C24:2FTS (S)	%.				83	80	25-150			
13C26:2FTS (S)	%.				102	90	25-150			
13C28:2FTS (S)	%.				147	128	25-150			
13C2PFHxDA (S)	%.				77	81	25-150			
13C3-PFBS (S)	%.				84	81	25-150			
13C3-PFHxS (S)	%.				81	79	25-150			
13C3HFPO-DA (S)	%.				90	88	25-150			
13C4-PFBA (S)	%.				82	80	25-150			
13C4-PFHpA (S)	%.				78	76	25-150			
13C5-PFHxA (S)	%.				76	75	25-150			
13C5-PFPeA (S)	%.				82	81	25-150			
13C6-PFDA (S)	%.				89	85	25-150			
13C7-PFUdA (S)	%.				79	77	25-150			
13C8-PFOA (S)	%.				82	81	25-150			
13C8-PFOS (S)	%.				78	79	25-150			
13C8-PFOSA (S)	%.				80	85	25-150			
13C9-PFNA (S)	%.				90	85	25-150			
d3-MeFOSAA (S)	%.				77	78	25-150			
d3-NMeFOSA (S)	%.				49	87	20-150			
d5-EtFOSAA (S)	%.				76	78	25-150			
d5-NEtFOSA (S)	%.				44	85	20-150			
d7-NMeFOSE (S)	%.				68	92	20-150			
d9-NEtFOSE (S)	%.				71	91	20-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA

Project: Waste Disposal

Pace Project No.: 40283990

QC Batch: 484609

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40283990001, 40283990002, 40283990003

SAMPLE DUPLICATE: 2774889

Parameter	Units	40284158001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.6	6.3	3	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALIFIERS

Project: Waste Disposal
Pace Project No.: 40283990

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above LOD.
J - The reported result is an estimated value.
LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.
LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.
DL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Analyte was not detected and is reported as less than the LOD or as defined by the customer.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q	Analyte was measured in the associated leach blank at a concentration of -0.087ug/L.
2q	Analyte was measured in the associated method blank at a concentration of -0.094ug/L.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Waste Disposal
Pace Project No.: 40283990

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40283990001	SAMPLE 1	EPA 3015A	484718	EPA 6010D	484751
40283990002	SAMPLE 2	EPA 3015A	484718	EPA 6010D	484751
40283990003	SAMPLE 3	EPA 3015A	484718	EPA 6010D	484751
40283990001	SAMPLE 1	EPA 7470	484656	EPA 7470	484750
40283990002	SAMPLE 2	EPA 7470	484656	EPA 7470	484750
40283990003	SAMPLE 3	EPA 7470	484656	EPA 7470	484750
40283990001	SAMPLE 1	EPA 3510	484715	EPA 8270E	484792
40283990002	SAMPLE 2	EPA 3510	484715	EPA 8270E	484792
40283990003	SAMPLE 3	EPA 3510	484715	EPA 8270E	484792
40283990001	SAMPLE 1	EPA 8260	484723		
40283990002	SAMPLE 2	EPA 8260	484723		
40283990003	SAMPLE 3	EPA 8260	484723		
40283990001	SAMPLE 1	ENV-SOP-MIN4-0178	970611	ENV-SOP-MIN4-0178	971560
40283990002	SAMPLE 2	ENV-SOP-MIN4-0178	970611	ENV-SOP-MIN4-0178	971560
40283990003	SAMPLE 3	ENV-SOP-MIN4-0178	970611	ENV-SOP-MIN4-0178	971560
40283990001	SAMPLE 1	ASTM D2974-87	484609		
40283990002	SAMPLE 2	ASTM D2974-87	484609		
40283990003	SAMPLE 3	ASTM D2974-87	484609		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace® Location Requested (City/State):

Pace Analytical Green Bay
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here



Scan QR Code for instructions

40283990

Company Name:	ChemDesign Products Inc
Street Address:	2 Stanton Street Marinette, WI 54143

Contact/Report To: Tom Willis *Christopher Moore*
Phone #: 715-735-8264
E-Mail: cmoore *tomwillis@chemdesign.com*
Cc E-Mail: tomwillis@chemdesign.com

Customer Project #:	
Project Name:	Waste Disposal
Site Collection Info/Facility ID (as applicable):	

Invoice To:	Tom Willis
Invoice E-Mail:	twillis@chemdesign.com
Purchase Order # (if applicable):	
Quote #:	

Time Zone Collected: ☐ AK ☐ PT ☐ MT ☐ CT ☐ ET

County / State origin of sample(s):	Wisconsin
-------------------------------------	-----------

Data Deliverables:

Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable	☐	Yes	☐	No
--	------------	--------------------------	-----	--------------------------	----

☐ Level II	☐ Level III	☐ Level IV
-----------------------------------	------------------------------------	-----------------------------------

Rush (Pre-approval required):

DW PWSID # or WW Permit # as applicable:

☐ EQUIS

☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ Other

Date Results Requested: 9/25/2024

Field Filtered (if applicable): ☐ Yes ☐ No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

[illegible]

Additional Instructions from Pace®:

Collected By: Christopher Moore
(Printed Name)
Signature: 

Customer Remarks / Special Conditions / Possible Hazards:									
---	--	--	--	--	--	--	--	--	--

# Coolers; 1	Thermometer ID: 123	Correction Factor (°C); 1.0	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice;
-----------------	------------------------	---	-----------------	----------------------	---------

Relinquished by/Company: (signature)	Date/Time: 9/11/24 10:00
--------------------------------------	--------------------------

Received by/Company: (Signature)				
----------------------------------	--	--	--	--

Date/Time:

Tracking Number;	
------------------	--

Refiniquished by/Company: (Signature)	Date/Time:
	9/17/24 10:10

Received by/Company: (Signature) Ken M. Hub-Pace

Date/Time: 9/17/24 10:10

Delivered by: ☐ In-Person ☐ Courier

Relinquished by/Company: (Signature)	Date/Time:
--------------------------------------	------------

Received by/Company: (Signature)

Date/Time:	
------------	--

☐ FedEX ☐ UPS ☐ Other

Relinquished by/Company: (Signature)	Date/Time:
--------------------------------------	------------

Received by/Company: (Signature)

Date/Time:

Page: 1 of 1

40283990



CHEMDESIGN PRODUCTS INC

WE MAKE CHEMISTRY WORK

Packing Slip

Date: 09/10/24

 REQUISITION: **Moore** **Pace Analy** **09/10/24**

Ship to: Angela Lane
 Pace Analytical
 1241 Bellevue Street

 Green Bay, WI 54302

From: Christopher Moore
 CHEMDESIGN PRODUCTS INC
 2 Stanton Street
 Marinette, WI 54143
 (715)735-8346

Reference PO or RMA	Ship Via	Bill to	Acct#
	UPS Next Day Air- Early a.m.	Prepaid by CDPI	

24 HOUR EMERGENCY RESPONSE NUMBER 1-800-688-4005 FOR VEOLIA ENVIRONMENTAL SERVICES CONTRACT #201205-024

Quantity	Size	Description	Lot/Batch #	Value
3	4 oz	Soil Sample - Plastic Jar		
9	4 oz	Soil Sample - Amber Jar		

Received By:

Date:

Please contact Customer Service at 715-735-8270 with any questions or concerns.

Thank you for your business!

2 Stanton Street, Marinette WI 715-735-9033 fax 715-735-5304

Effective Date: 8/16/2022

Sample Preservation Receipt Form

Client Name: ChemDesign Products

Project #

40283990

All containers needing preservation have been checked and noted below:

☐ Yes☐ No☒ N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when
completed:Date/
Time:

Pace Lab #	Glass						Plastic					Vials					Jars				General				VOA Vials (≥6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WG9U	WPFU	SP5T								ZPLC
001																																2.5 / 5
002																																2.5 / 5
003																																2.5 / 5
004																																2.5 / 5
005																																2.5 / 5
006																																2.5 / 5
007																																2.5 / 5
008																																2.5 / 5
009																																2.5 / 5
010																																2.5 / 5
011																																2.5 / 5
012																																2.5 / 5
013																																2.5 / 5
014																																2.5 / 5
015																																2.5 / 5
016																																2.5 / 5
017																																2.5 / 5
018																																2.5 / 5
019																																2.5 / 5
020																																2.5 / 5

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____

Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JG9U	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WG9U	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: ChemDesign Products

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Walco
☐ Client ☐ Pace Other: _____

Tracking #: 17 592 910 03 9281 0801

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 123 Type of Ice: Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 1.0 /Corr: 1.0

Temp Blank Present: ☒ yes ☐ no

Biological Tissue is Frozen: ☐ yes ☐ no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:

Date: 9/12/24 /Initials: KKS

Labeled By Initials: GF

Chain of Custody Present: ☒ Yes ☐ No ☐ N/A 1.

Chain of Custody Filled Out: ☒ Yes ☐ No ☐ N/A 2.

Chain of Custody Relinquished: ☒ Yes ☐ No ☐ N/A 3.

Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A 4.

Samples Arrived within Hold Time: ☒ Yes ☐ No 5.

- DI VOA Samples frozen upon receipt ☐ Yes ☐ No Date/Time: _____

Short Hold Time Analysis (<72hr): ☐ Yes ☒ No 6.

Rush Turn Around Time Requested: ☐ Yes ☒ No 7.

Sufficient Volume: 8.

For Analysis: ☒ Yes ☐ No MS/MSD: ☐ Yes ☒ No ☐ N/A

Correct Containers Used: ☒ Yes ☐ No 9.

Correct Type: Pace Green Bay, Pace IR, Non-Pace

Containers Intact: ☒ Yes ☐ No 10.

Filtered volume received for Dissolved tests ☐ Yes ☒ No ☐ N/A 11.

Sample Labels match COC: ☒ Yes ☐ No ☐ N/A 12.

-Includes date/time/ID/Analysis Matrix: S

Trip Blank Present: ☐ Yes ☐ No ☒ N/A 13.

Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A

Pace Trip Blank Lot # (if purchased): _____

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Page 2 of 2