Sellwood, Alyssa A - DNR

From: Denice Nelson <denice.karen.nelson@jci.com>
Sent: Friday, September 13, 2024 11:27 AM
To: Sellwood, Alyssa A - DNR
Subject: Re: Request to reuse soil on site: Deep Well installation drill cuttings

Alyssa - this email serves to document the soil management activities per condition 5 in WDNR's Approval to Manage Contaminated Soil under Wis. Admin. Code § NR 718.12 dated August 12, 2024.

- Approximately 1,200 CY of drill cuttings generated during deep well installation activities was reused within the Southern Beneficial Reuse Area following WDNR's approval on August 16, 2024 (300 CY) and September 6, 2024 (900 CY).
- The soil was spread on September 10, 2024.
- A picture of the area following beneficial reuse of the soil is below.

Please let me know if you have any questions.

Thanks
Denice

Denice Nelson
Senior Director, Remediation and Strategy
Johnson Controls

Sellwood, Alyssa A - DNR

From: Sellwood, Alyssa A - DNR
Sent: Friday, August 16, 2024 11:46 AM
To: 'Denice Nelson'
Cc: Thistle, Jodie M - DNR
Subject: RE: Request to reuse soils on site: Deep Well installation drill cuttings

Denice - Thank you for providing the activity-specific soil management plan and characterization results for the deep well drill cuttings.

JCI/Tyco may proceed with implementing the soil management plan summarized below. Please respond to this email within 30 days of completing the work, per condition 5 in the DNR's August 12, 2024 Approval to Manage Contaminated Soil under Wis. Admin. Code § NR 718.12 for BRRTS #02-38-580694 and #03-38-001345.

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Alyssa Sellwood, PE (WI)
Phone: 608-622-8606
Alyssa.Sellwood@wisconsin.gov

From: Denice Nelson <denice.karen.nelson@jci.com>
Sent: Thursday, August 15, 2024 10:57 AM
To: Sellwood, Alyssa A - DNR <alyssa.sellwood@wisconsin.gov>
Subject: Request to reuse soils on site: Deep Well installation drill cuttings

Alyssa,

Per your August 12, 2024 Approval to Manage Contaminated Soil under Wis. Admin. Code § NR 718.12, Tyco plans to reuse soils on site at the Tyco Fire Technology Center (FTC), 2700 Industrial Parkway South, Marinette, WI 54143. Specifics about the soil as required by the above-referenced approval are included below:

Activity generating soil:	Soils were generated and stockpiled as part of deep well installation activities
Quantity:	Approximately 300 Cubic Yards
Characterization results:	Three representative soil samples (IDW-1, IDW-2 and IDW-3) were analyzed for volatile organic compounds (VOCs) and per- and polyfluoroalkyl substances (PFAS). All analytical results were below criteria established in the Onsite Soil Reuse Plan[1].
Proposed location where materials will be managed on-site:	Materials will be moved for beneficial reuse in the South Beneficial Soil Reuse Area.
Schedule:	Materials will be moved within approximately 2 weeks of approval by WDNR.

[1] VOCs were either not detected in the samples or were considered non-detect because of presences in the laboratory blank.

A PFAS detection summary table and laboratory results are attached for your review. Please confirm you approve of the beneficial reuse of these soils onsite or reach out with any questions.

Thanks,

Denice Nelson

Senior Director, Remediation and Strategy

Johnson Controls

+1 651 280 7259 cell

denice.karen.nelson@jci.com

www.johnsoncontrols.com

Twitter: @JohnsonControls • LinkedIn: Johnson-Controls

The power behind **your mission**

Johnson Controls

5757 North Green Bay Avenue

Glendale, WI 53209

USA

Table 1
PFAS in Soil Detection Summary IDW Piles 1 through 3
On-Site Beneficial Reuse of Soils

Sample ID Sample Date	Unit	PFOS RCL[1]	PFOA RCL[1]	IDW 1 03/15/2024	IDW 2 03/15/2024	IDW 3 03/15/2024
10:2 FTS	µg/Kg	-	-	<0.043	<0.049	**0.050 J**
6:2 FTS	µg/Kg	-	-	**0.039 J**	**0.10 J**	**1.2**
8:2 FTS	µg/Kg	-	-	**0.047 J**	<0.045	**0.33**
NEtFOSE	µg/Kg	-	-	**0.040 J**	<0.036	**0.042 J**
Perfluorobutanoic acid (PFBA)	µg/Kg	-	-	**0.074 J B**	**0.063 J B**	**0.16 J B**
Perfluorodecanoic acid (PFDA)	µg/Kg	-	-	<0.054	**0.076 J**	<0.061
Perfluoroheptanoic acid (PFHpA)	µg/Kg	-	-	**0.096 J**	**0.13 J**	**0.081 J**
Perfluorohexanoic acid (PFHxA)	µg/Kg	-	-	**0.090 J**	**0.072 J**	**0.23 J**
Perfluorononanoic acid (PFNA)	µg/Kg	-	-	**0.059 J**	**0.091 J I**	**0.048 J**
Perfluorooctanesulfonamide (FOSA)	µg/Kg	-	-	<0.037	<0.042	**0.046 J**
Perfluorooctanesulfonic acid (PFOS)	µg/Kg	0.9	-	**0.23 I**	**0.37 I**	**0.21 J I**
Perfluorooctanoic acid (PFOA)	µg/Kg	-	5.0	**0.13 J**	**0.17 J**	**0.58**
Perfluoropentanoic acid (PFPeA)	µg/Kg	-	-	**0.14 J**	**0.11 J**	**0.27**

Notes:
1) Site specific PFAS RCL defined in March 5, 2024 Material Management Plan (Arcadis)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/4/2024 8:22:20 AM

JOB DESCRIPTION

TYCO-SOILS VARIOUS IDW

JOB NUMBER

500-247671-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

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 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
4/4/2024 8:22:20 AM

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

Table of Contents

Job ID: 500-247671-1 — Eurofins Chicago

Job Narrative
500-247671-1

Receipt
The samples were received on 3/19/2024 9:55 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 2.8º C.

GC/MS VOA
Method 5035: sample vial has < 8 grams of soil in 10 ml of methanol. IDW 1 (500-247671-1) and IDW 2 (500-247671-2)

Method 8260D: The method blank for analytical batch 500-759273 contained Chloroform 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.

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

LCMS
Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte: IDW 1 (500-247671-1), IDW 2 (500-247671-2) and IDW 3 (500-247671-3).

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.

Detection Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 1 — Lab Sample ID: 500-247671-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.088	J B	0.20	0.037	mg/Kg	50	☼	8260D	Total/NA
Perfluorobutanoic acid (PFBA)	0.074	J B	0.22	0.051	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.14	J	0.22	0.046	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.090	J	0.22	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.096	J	0.22	0.043	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.13	J	0.22	0.059	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.059	J	0.22	0.025	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.23	I	0.22	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
NEtFOSE	0.040	J	0.22	0.031	ug/Kg	1	☼	537 (modified)	Total/NA
6:2 FTS	0.039	J	0.22	0.030	ug/Kg	1	☼	537 (modified)	Total/NA
8:2 FTS	0.047	J	0.22	0.039	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: IDW 2 — Lab Sample ID: 500-247671-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.082	J B	0.21	0.039	mg/Kg	50	☼	8260D	Total/NA
Perfluorobutanoic acid (PFBA)	0.063	J B	0.26	0.059	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.11	J	0.26	0.053	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.072	J	0.26	0.040	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.13	J	0.26	0.049	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.17	J	0.26	0.068	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.091	J I	0.26	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.076	J	0.26	0.061	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.37	I	0.26	0.055	ug/Kg	1	☼	537 (modified)	Total/NA
6:2 FTS	0.10	J	0.26	0.035	ug/Kg	1	☼	537 (modified)	Total/NA

Client Sample ID: IDW 3 — Lab Sample ID: 500-247671-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.076	J B	0.20	0.037	mg/Kg	50	☼	8260D	Total/NA
Perfluorobutanoic acid (PFBA)	0.16	J B	0.25	0.059	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.27		0.25	0.052	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.23	J	0.25	0.039	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.081	J	0.25	0.048	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.58		0.25	0.067	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.048	J	0.25	0.028	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.21	J I	0.25	0.055	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	0.046	J	0.25	0.042	ug/Kg	1	☼	537 (modified)	Total/NA
NEtFOSE	0.042	J	0.25	0.036	ug/Kg	1	☼	537 (modified)	Total/NA
6:2 FTS	1.2		0.25	0.034	ug/Kg	1	☼	537 (modified)	Total/NA
8:2 FTS	0.33		0.25	0.045	ug/Kg	1	☼	537 (modified)	Total/NA
10:2 FTS	0.050	J	0.25	0.048	ug/Kg	1	☼	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

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-SOILS VARIOUS IDW

Job ID: 500-247671-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-247671-1	IDW 1	Solid	03/15/24 00:00	03/19/24 09:55
500-247671-2	IDW 2	Solid	03/15/24 00:00	03/19/24 09:55
500-247671-3	IDW 3	Solid	03/15/24 00:00	03/19/24 09:55

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 1
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-1
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.015		0.025	0.015	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Bromobenzene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Bromochloromethane	<0.043		0.10	0.043	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Bromodichloromethane	<0.037		0.10	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Bromoform	<0.049		0.10	0.049	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Bromomethane	<0.080		0.30	0.080	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Carbon tetrachloride	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Chlorobenzene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Chloroethane	<0.051		0.50	0.051	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Chloroform	**0.088**	**J B**	0.20	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Chloromethane	<0.032		0.50	0.032	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
2-Chlorotoluene	<0.032		0.10	0.032	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
4-Chlorotoluene	<0.035		0.10	0.035	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
cis-1,2-Dichloroethene	<0.041		0.10	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
cis-1,3-Dichloropropene	<0.042		0.10	0.042	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Chlorodibromomethane	<0.049		0.10	0.049	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,2-Dibromo-3-Chloropropane	<0.20		0.50	0.20	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,2-Dibromoethane (EDB)	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Dibromomethane	<0.027		0.10	0.027	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,2-Dichlorobenzene	<0.034		0.10	0.034	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,3-Dichlorobenzene	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,4-Dichlorobenzene	<0.037		0.10	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Dichlorodifluoromethane	<0.068		0.30	0.068	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,1-Dichloroethane	<0.041		0.10	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,2-Dichloroethane	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,1-Dichloroethene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,2-Dichloropropane	<0.043		0.10	0.043	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,3-Dichloropropane	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
2,2-Dichloropropane	<0.045		0.50	0.045	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,1-Dichloropropene	<0.030		0.10	0.030	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Ethylbenzene	<0.018		0.025	0.018	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Hexachlorobutadiene	<0.045		0.10	0.045	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Isopropylbenzene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Isopropyl ether	<0.028		0.10	0.028	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Methylene Chloride	<0.16		0.50	0.16	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Methyl tert-butyl ether	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Naphthalene	<0.034		0.10	0.034	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
n-Butylbenzene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
N-Propylbenzene	<0.042		0.10	0.042	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
p-Isopropyltoluene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
sec-Butylbenzene	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Styrene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
tert-Butylbenzene	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,1,1,2-Tetrachloroethane	<0.047		0.10	0.047	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,1,2,2-Tetrachloroethane	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Tetrachloroethene	<0.037		0.10	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Toluene	<0.015		0.025	0.015	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
trans-1,2-Dichloroethene	<0.035		0.10	0.035	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
trans-1,3-Dichloropropene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50

Client Sample ID: IDW 1
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-1
Matrix: Solid
Percent Solids: 85.7

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	<0.046		0.10	0.046	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,2,4-Trichlorobenzene	<0.034		0.10	0.034	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,1,1-Trichloroethane	<0.038		0.10	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,1,2-Trichloroethane	<0.035		0.10	0.035	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Trichloroethene	<0.017		0.050	0.017	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Trichlorofluoromethane	<0.043		0.10	0.043	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,2,3-Trichloropropane	<0.042		0.20	0.042	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,2,4-Trimethylbenzene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
1,3,5-Trimethylbenzene	<0.038		0.10	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Vinyl chloride	<0.026		0.10	0.026	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50
Xylenes, Total	<0.022		0.050	0.022	mg/Kg	☼	03/15/24 00:00	03/21/24 17:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*	*03/15/24 00:00*	*03/21/24 17:11*	*50*
Dibromofluoromethane (Surr)	*106*		*75 - 120*	*03/15/24 00:00*	*03/21/24 17:11*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*03/15/24 00:00*	*03/21/24 17:11*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/15/24 00:00*	*03/21/24 17:11*	*50*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.074**	**J B**	0.22	0.051	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluoropentanoic acid (PFPeA)	**0.14**	**J**	0.22	0.046	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorohexanoic acid (PFHxA)	**0.090**	**J**	0.22	0.035	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluoroheptanoic acid (PFHpA)	**0.096**	**J**	0.22	0.043	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorooctanoic acid (PFOA)	**0.13**	**J**	0.22	0.059	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorononanoic acid (PFNA)	**0.059**	**J**	0.22	0.025	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorodecanoic acid (PFDA)	<0.054		0.22	0.054	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluoroundecanoic acid (PFUnA)	<0.047		0.22	0.047	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorododecanoic acid (PFDoA)	<0.034		0.22	0.034	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorotridecanoic acid (PFTriA)	<0.024		0.22	0.024	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorotetradecanoic acid (PFTeA)	<0.041		0.22	0.041	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.043		0.22	0.043	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.074		0.22	0.074	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorobutanesulfonic acid (PFBS)	<0.043		0.22	0.043	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluoropentanesulfonic acid (PFPeS)	<0.041		0.22	0.041	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorohexanesulfonic acid (PFHxS)	<0.032		0.22	0.032	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.055		0.22	0.055	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorooctanesulfonic acid (PFOS)	**0.23**	**I**	0.22	0.048	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorononanesulfonic acid (PFNS)	<0.032		0.22	0.032	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorodecanesulfonic acid (PFDS)	<0.058		0.22	0.058	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorododecanesulfonic acid (PFDoS)	<0.053		0.22	0.053	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
Perfluorooctanesulfonamide (FOSA)	<0.037		0.22	0.037	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
NEtFOSA	<0.053		0.22	0.053	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
NMeFOSA	<0.055		0.22	0.055	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
NMeFOSAA	<0.026		0.22	0.026	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 1
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-1
Matrix: Solid
Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.054		0.22	0.054	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
NMeFOSE	<0.053		0.22	0.053	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
NEtFOSE	**0.040**	**J**	0.22	0.031	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
4:2 FTS	<0.057		0.22	0.057	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
6:2 FTS	**0.039**	**J**	0.22	0.030	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
8:2 FTS	**0.047**	**J**	0.22	0.039	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
10:2 FTS	<0.043		0.22	0.043	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.044		0.22	0.044	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
HFPO-DA (GenX)	<0.046		0.22	0.046	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
F-53B Major	<0.039		0.22	0.039	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1
F-53B Minor	<0.035		0.22	0.035	ug/Kg	☼	03/27/24 12:17	03/29/24 14:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C5 PFPeA	*93*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C2 PFHxA	*90*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C4 PFHpA	*93*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C4 PFOA	*101*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C5 PFNA	*91*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C2 PFDA	*85*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C2 PFUnA	*68*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C2 PFDoA	*66*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C2 PFTeDA	*57*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C2 PFHxDA	*57*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C3 PFBS	*79*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
18O2 PFHxS	*79*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C4 PFOS	*72*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C8 FOSA	*84*		*10 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
d3-NMeFOSAA	*71*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
d5-NEtFOSAA	*70*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
d-N-MeFOSA-M	*58*		*10 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
d-N-EtFOSA-M	*55*		*10 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
d7-N-MeFOSE-M	*64*		*10 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
d9-N-EtFOSE-M	*63*		*10 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
M2-4:2 FTS	*78*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
M2-6:2 FTS	*97*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
M2-8:2 FTS	*98*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C3 HFPO-DA	*85*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*
13C2 10:2 FTS	*72*		*25 - 150*	*03/27/24 12:17*	*03/29/24 14:59*	*1*

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 2
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-2
Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.015		0.026	0.015	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Bromobenzene	<0.037		0.11	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Bromochloromethane	<0.045		0.11	0.045	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Bromodichloromethane	<0.039		0.11	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Bromoform	<0.051		0.11	0.051	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Bromomethane	<0.084		0.32	0.084	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Carbon tetrachloride	<0.040		0.11	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Chlorobenzene	<0.041		0.11	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Chloroethane	<0.053		0.53	0.053	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Chloroform	**0.082**	**J B**	0.21	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Chloromethane	<0.034		0.53	0.034	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
2-Chlorotoluene	<0.033		0.11	0.033	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
4-Chlorotoluene	<0.037		0.11	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
cis-1,2-Dichloroethene	<0.043		0.11	0.043	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
cis-1,3-Dichloropropene	<0.044		0.11	0.044	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Chlorodibromomethane	<0.051		0.11	0.051	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,2-Dibromo-3-Chloropropane	<0.21		0.53	0.21	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,2-Dibromoethane (EDB)	<0.041		0.11	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Dibromomethane	<0.028		0.11	0.028	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,2-Dichlorobenzene	<0.035		0.11	0.035	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,3-Dichlorobenzene	<0.042		0.11	0.042	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,4-Dichlorobenzene	<0.038		0.11	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Dichlorodifluoromethane	<0.071		0.32	0.071	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,1-Dichloroethane	<0.043		0.11	0.043	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,2-Dichloroethane	<0.041		0.11	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,1-Dichloroethene	<0.041		0.11	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,2-Dichloropropane	<0.045		0.11	0.045	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,3-Dichloropropane	<0.038		0.11	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
2,2-Dichloropropane	<0.047		0.53	0.047	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,1-Dichloropropene	<0.031		0.11	0.031	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Ethylbenzene	<0.019		0.026	0.019	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Hexachlorobutadiene	<0.047		0.11	0.047	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Isopropylbenzene	<0.040		0.11	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Isopropyl ether	<0.029		0.11	0.029	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Methylene Chloride	<0.17		0.53	0.17	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Methyl tert-butyl ether	<0.041		0.11	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Naphthalene	<0.035		0.11	0.035	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
n-Butylbenzene	<0.041		0.11	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
N-Propylbenzene	<0.044		0.11	0.044	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
p-Isopropyltoluene	<0.038		0.11	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
sec-Butylbenzene	<0.042		0.11	0.042	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Styrene	<0.041		0.11	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
tert-Butylbenzene	<0.042		0.11	0.042	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,1,1,2-Tetrachloroethane	<0.049		0.11	0.049	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,1,2,2-Tetrachloroethane	<0.042		0.11	0.042	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Tetrachloroethene	<0.039		0.11	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Toluene	<0.015		0.026	0.015	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
trans-1,2-Dichloroethene	<0.037		0.11	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
trans-1,3-Dichloropropene	<0.038		0.11	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 2
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-2
Matrix: Solid
Percent Solids: 76.2

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	<0.048		0.11	0.048	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,2,4-Trichlorobenzene	<0.036		0.11	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,1,1-Trichloroethane	<0.040		0.11	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,1,2-Trichloroethane	<0.037		0.11	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Trichloroethene	<0.017		0.053	0.017	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Trichlorofluoromethane	<0.045		0.11	0.045	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,2,3-Trichloropropane	<0.044		0.21	0.044	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,2,4-Trimethylbenzene	<0.038		0.11	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
1,3,5-Trimethylbenzene	<0.040		0.11	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Vinyl chloride	<0.028		0.11	0.028	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50
Xylenes, Total	<0.023		0.053	0.023	mg/Kg	☼	03/15/24 00:00	03/21/24 17:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*	*03/15/24 00:00*	*03/21/24 17:36*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*03/15/24 00:00*	*03/21/24 17:36*	*50*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*03/15/24 00:00*	*03/21/24 17:36*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*03/15/24 00:00*	*03/21/24 17:36*	*50*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.063**	**J B**	0.26	0.059	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluoropentanoic acid (PFPeA)	**0.11**	**J**	0.26	0.053	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorohexanoic acid (PFHxA)	**0.072**	**J**	0.26	0.040	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluoroheptanoic acid (PFHpA)	**0.13**	**J**	0.26	0.049	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorooctanoic acid (PFOA)	**0.17**	**J**	0.26	0.068	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorononanoic acid (PFNA)	**0.091**	**J I**	0.26	0.028	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorodecanoic acid (PFDA)	**0.076**	**J**	0.26	0.061	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluoroundecanoic acid (PFUnA)	<0.054		0.26	0.054	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorododecanoic acid (PFDoA)	<0.038		0.26	0.038	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorotridecanoic acid (PFTriA)	<0.027		0.26	0.027	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorotetradecanoic acid (PFTeA)	<0.047		0.26	0.047	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.049		0.26	0.049	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.085		0.26	0.085	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorobutanesulfonic acid (PFBS)	<0.049		0.26	0.049	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluoropentanesulfonic acid (PFPeS)	<0.047		0.26	0.047	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorohexanesulfonic acid (PFHxS)	<0.037		0.26	0.037	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.063		0.26	0.063	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorooctanesulfonic acid (PFOS)	**0.37**	**I**	0.26	0.055	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorononanesulfonic acid (PFNS)	<0.037		0.26	0.037	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorodecanesulfonic acid (PFDS)	<0.067		0.26	0.067	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.060		0.26	0.060	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
Perfluorooctanesulfonamide (FOSA)	<0.042		0.26	0.042	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
NEtFOSA	<0.060		0.26	0.060	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
NMeFOSA	<0.063		0.26	0.063	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
NMeFOSAA	<0.029		0.26	0.029	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 2
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-2
Matrix: Solid
Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.061		0.26	0.061	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
NMeFOSE	<0.060		0.26	0.060	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
NEtFOSE	<0.036		0.26	0.036	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
4:2 FTS	<0.065		0.26	0.065	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
6:2 FTS	**0.10**	**J**	0.26	0.035	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
8:2 FTS	<0.045		0.26	0.045	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
10:2 FTS	<0.049		0.26	0.049	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.050		0.26	0.050	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
HFPO-DA (GenX)	<0.053		0.26	0.053	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
F-53B Major	<0.045		0.26	0.045	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1
F-53B Minor	<0.040		0.26	0.040	ug/Kg	☼	03/27/24 12:17	03/29/24 15:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C5 PFPeA	*90*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C2 PFHxA	*92*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C4 PFHpA	*90*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C4 PFOA	*94*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C5 PFNA	*82*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C2 PFDA	*79*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C2 PFUnA	*73*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C2 PFDoA	*75*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C2 PFTeDA	*69*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C2 PFHxDA	*58*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C3 PFBS	*81*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
18O2 PFHxS	*75*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C4 PFOS	*66*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C8 FOSA	*74*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
d3-NMeFOSAA	*75*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
d5-NEtFOSAA	*80*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
d-N-MeFOSA-M	*59*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
d-N-EtFOSA-M	*62*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
d7-N-MeFOSE-M	*70*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
d9-N-EtFOSE-M	*71*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
M2-4:2 FTS	*80*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
M2-6:2 FTS	*88*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C3 HFPO-DA	*90*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*
13C2 10:2 FTS	*88*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:29*	*1*

Client Sample ID: IDW 3
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-3
Matrix: Solid
Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.015		0.025	0.015	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Bromobenzene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Bromochloromethane	<0.043		0.10	0.043	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Bromodichloromethane	<0.037		0.10	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Bromoform	<0.048		0.10	0.048	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Bromomethane	<0.080		0.30	0.080	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Carbon tetrachloride	<0.038		0.10	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Chlorobenzene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Chloroethane	<0.050		0.50	0.050	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Chloroform	**0.076**	**J B**	0.20	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Chloromethane	<0.032		0.50	0.032	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
2-Chlorotoluene	<0.031		0.10	0.031	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
4-Chlorotoluene	<0.035		0.10	0.035	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
cis-1,2-Dichloroethene	<0.041		0.10	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
cis-1,3-Dichloropropene	<0.042		0.10	0.042	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Chlorodibromomethane	<0.049		0.10	0.049	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,2-Dibromo-3-Chloropropane	<0.20		0.50	0.20	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,2-Dibromoethane (EDB)	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Dibromomethane	<0.027		0.10	0.027	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,2-Dichlorobenzene	<0.033		0.10	0.033	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,3-Dichlorobenzene	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,4-Dichlorobenzene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Dichlorodifluoromethane	<0.067		0.30	0.067	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,1-Dichloroethane	<0.041		0.10	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,2-Dichloroethane	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,1-Dichloroethene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,2-Dichloropropane	<0.043		0.10	0.043	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,3-Dichloropropane	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
2,2-Dichloropropane	<0.044		0.50	0.044	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,1-Dichloropropene	<0.030		0.10	0.030	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Ethylbenzene	<0.018		0.025	0.018	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Hexachlorobutadiene	<0.045		0.10	0.045	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Isopropylbenzene	<0.038		0.10	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Isopropyl ether	<0.028		0.10	0.028	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Methylene Chloride	<0.16		0.50	0.16	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Methyl tert-butyl ether	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Naphthalene	<0.033		0.10	0.033	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
n-Butylbenzene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
N-Propylbenzene	<0.041		0.10	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
p-Isopropyltoluene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
sec-Butylbenzene	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Styrene	<0.039		0.10	0.039	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
tert-Butylbenzene	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,1,1,2-Tetrachloroethane	<0.046		0.10	0.046	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,1,2,2-Tetrachloroethane	<0.040		0.10	0.040	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Tetrachloroethene	<0.037		0.10	0.037	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Toluene	<0.015		0.025	0.015	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
trans-1,2-Dichloroethene	<0.035		0.10	0.035	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
trans-1,3-Dichloropropene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 3
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-3
Matrix: Solid
Percent Solids: 74.9

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	<0.046		0.10	0.046	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,2,4-Trichlorobenzene	<0.034		0.10	0.034	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,1,1-Trichloroethane	<0.038		0.10	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,1,2-Trichloroethane	<0.035		0.10	0.035	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Trichloroethene	<0.016		0.050	0.016	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Trichlorofluoromethane	<0.043		0.10	0.043	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,2,3-Trichloropropane	<0.041		0.20	0.041	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,2,4-Trimethylbenzene	<0.036		0.10	0.036	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
1,3,5-Trimethylbenzene	<0.038		0.10	0.038	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Vinyl chloride	<0.026		0.10	0.026	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50
Xylenes, Total	<0.022		0.050	0.022	mg/Kg	☼	03/15/24 00:00	03/21/24 17:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*03/15/24 00:00*	*03/21/24 17:59*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*03/15/24 00:00*	*03/21/24 17:59*	*50*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*03/15/24 00:00*	*03/21/24 17:59*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*03/15/24 00:00*	*03/21/24 17:59*	*50*

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.16**	**J B**	0.25	0.059	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluoropentanoic acid (PFPeA)	**0.27**		0.25	0.052	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorohexanoic acid (PFHxA)	**0.23**	**J**	0.25	0.039	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluoroheptanoic acid (PFHpA)	**0.081**	**J**	0.25	0.048	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorooctanoic acid (PFOA)	**0.58**		0.25	0.067	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorononanoic acid (PFNA)	**0.048**	**J**	0.25	0.028	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorodecanoic acid (PFDA)	<0.061		0.25	0.061	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluoroundecanoic acid (PFUnA)	<0.053		0.25	0.053	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorododecanoic acid (PFDoA)	<0.038		0.25	0.038	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorotridecanoic acid (PFTriA)	<0.027		0.25	0.027	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorotetradecanoic acid (PFTeA)	<0.047		0.25	0.047	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.048		0.25	0.048	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.084		0.25	0.084	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.048		0.25	0.048	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluoropentanesulfonic acid (PFPeS)	<0.047		0.25	0.047	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.037		0.25	0.037	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.062		0.25	0.062	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorooctanesulfonic acid (PFOS)	**0.21**	**J I**	0.25	0.055	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorononanesulfonic acid (PFNS)	<0.037		0.25	0.037	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorodecanesulfonic acid (PFDS)	<0.066		0.25	0.066	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorododecanesulfonic acid (PFDoS)	<0.060		0.25	0.060	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
Perfluorooctanesulfonamide (FOSA)	**0.046**	**J**	0.25	0.042	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
NEtFOSA	<0.060		0.25	0.060	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
NMeFOSA	<0.062		0.25	0.062	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
NMeFOSAA	<0.029		0.25	0.029	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 3
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-3
Matrix: Solid
Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSAA	<0.061		0.25	0.061	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
NMeFOSE	<0.060		0.25	0.060	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
NEtFOSE	**0.042**	**J**	0.25	0.036	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
4:2 FTS	<0.065		0.25	0.065	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
6:2 FTS	**1.2**		0.25	0.034	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
8:2 FTS	**0.33**		0.25	0.045	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
10:2 FTS	**0.050**	**J**	0.25	0.048	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.050		0.25	0.050	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
HFPO-DA (GenX)	<0.052		0.25	0.052	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
F-53B Major	<0.045		0.25	0.045	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1
F-53B Minor	<0.039		0.25	0.039	ug/Kg	☼	03/27/24 12:17	03/29/24 15:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C5 PFPeA	*89*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C2 PFHxA	*94*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C4 PFHpA	*88*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C4 PFOA	*99*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C5 PFNA	*91*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C2 PFDA	*87*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C2 PFUnA	*76*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C2 PFDoA	*73*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C2 PFTeDA	*63*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C2 PFHxDA	*53*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C3 PFBS	*83*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
18O2 PFHxS	*80*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C4 PFOS	*77*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C8 FOSA	*85*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
d3-NMeFOSAA	*77*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
d5-NEtFOSAA	*84*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
d-N-MeFOSA-M	*59*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
d-N-EtFOSA-M	*59*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
d7-N-MeFOSE-M	*55*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
d9-N-EtFOSE-M	*62*		*10 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
M2-4:2 FTS	*85*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
M2-6:2 FTS	*94*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
M2-8:2 FTS	*109*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C3 HFPO-DA	*91*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*
13C2 10:2 FTS	*88*		*25 - 150*	*03/27/24 12:17*	*03/29/24 15:40*	*1*

Qualifiers

GC/MS VOA

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.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

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-SOILS VARIOUS IDW

Job ID: 500-247671-1

GC/MS VOA

Prep Batch: 759021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247671-1	IDW 1	Total/NA	Solid	5035	
500-247671-2	IDW 2	Total/NA	Solid	5035	
500-247671-3	IDW 3	Total/NA	Solid	5035	
LB3 500-759021/6-A	Method Blank	Total/NA	Solid	5035	
LCS 500-759021/7-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 759273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247671-1	IDW 1	Total/NA	Solid	8260D	759021
500-247671-2	IDW 2	Total/NA	Solid	8260D	759021
500-247671-3	IDW 3	Total/NA	Solid	8260D	759021
MB 500-759273/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-759021/7-A	Lab Control Sample	Total/NA	Solid	8260D	759021
LCS 500-759273/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 759494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-759021/6-A	Method Blank	Total/NA	Solid	8260D	759021
MB 500-759494/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-759494/4	Lab Control Sample	Total/NA	Solid	8260D	

LCMS

Prep Batch: 750326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247671-1	IDW 1	Total/NA	Solid	SHAKE	
500-247671-2	IDW 2	Total/NA	Solid	SHAKE	
500-247671-3	IDW 3	Total/NA	Solid	SHAKE	
MB 320-750326/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-750326/3-A	Lab Control Sample	Total/NA	Solid	SHAKE	
LLCS 320-750326/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 751083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247671-1	IDW 1	Total/NA	Solid	537 (modified)	750326
500-247671-2	IDW 2	Total/NA	Solid	537 (modified)	750326
500-247671-3	IDW 3	Total/NA	Solid	537 (modified)	750326
MB 320-750326/1-A	Method Blank	Total/NA	Solid	537 (modified)	750326
LCS 320-750326/3-A	Lab Control Sample	Total/NA	Solid	537 (modified)	750326
LLCS 320-750326/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	750326

General Chemistry

Analysis Batch: 759401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247671-1	IDW 1	Total/NA	Solid	Moisture	
500-247671-2	IDW 2	Total/NA	Solid	Moisture	
500-247671-3	IDW 3	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-247671-1	IDW 1	97	106	100	101
500-247671-2	IDW 2	99	101	98	100
500-247671-3	IDW 3	98	101	100	100
LB3 500-759021/6-A	Method Blank	102	88	95	95
LCS 500-759021/7-A	Lab Control Sample	95	103	99	99
LCS 500-759273/4	Lab Control Sample	96	98	92	103
LCS 500-759494/4	Lab Control Sample	103	94	94	94
MB 500-759273/7	Method Blank	96	103	95	100
MB 500-759494/6	Method Blank	104	91	97	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: LB3 500-759021/6-A
Matrix: Solid
Analysis Batch: 759494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759021

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0073		0.013	0.0073	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Bromobenzene	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Bromochloromethane	<0.021		0.050	0.021	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Bromodichloromethane	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Bromoform	<0.024		0.050	0.024	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Bromomethane	<0.040		0.15	0.040	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Chloroethane	<0.025		0.25	0.025	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Chloroform	0.0395	J	0.10	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Chloromethane	<0.016		0.25	0.016	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
cis-1,2-Dichloroethene	<0.020		0.050	0.020	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Chlorodibromomethane	<0.024		0.050	0.024	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2-Dibromoethane (EDB)	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Dichlorodifluoromethane	<0.034		0.15	0.034	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
2,2-Dichloropropane	<0.022		0.25	0.022	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Naphthalene	<0.017		0.050	0.017	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Styrene	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,1,1,2-Tetrachloroethane	<0.023		0.050	0.023	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,1,2,2-Tetrachloroethane	<0.020		0.050	0.020	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Toluene	<0.0074		0.013	0.0074	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50

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

Lab Sample ID: LB3 500-759021/6-A
Matrix: Solid
Analysis Batch: 759494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759021

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		03/19/24 22:40	03/22/24 13:12	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		03/19/24 22:40	03/22/24 13:12	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*03/19/24 22:40*	*03/22/24 13:12*	*50*
Dibromofluoromethane (Surr)	*88*		*75 - 120*	*03/19/24 22:40*	*03/22/24 13:12*	*50*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*	*03/19/24 22:40*	*03/22/24 13:12*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*03/19/24 22:40*	*03/22/24 13:12*	*50*

Lab Sample ID: LCS 500-759021/7-A
Matrix: Solid
Analysis Batch: 759273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.94		mg/Kg		117	70 - 120
Bromobenzene	2.50	2.64		mg/Kg		106	70 - 122
Bromochloromethane	2.50	2.91		mg/Kg		116	65 - 122
Bromodichloromethane	2.50	2.84		mg/Kg		114	69 - 120
Bromoform	2.50	2.83		mg/Kg		113	56 - 132
Bromomethane	2.50	2.68		mg/Kg		107	40 - 152
Carbon tetrachloride	2.50	2.55		mg/Kg		102	59 - 133
Chlorobenzene	2.50	2.77		mg/Kg		111	70 - 120
Chloroethane	2.50	2.21		mg/Kg		88	48 - 136
Chloroform	2.50	2.81		mg/Kg		113	70 - 120
Chloromethane	2.50	2.07		mg/Kg		83	56 - 152
2-Chlorotoluene	2.50	2.50		mg/Kg		100	70 - 125
4-Chlorotoluene	2.50	2.48		mg/Kg		99	68 - 124
cis-1,2-Dichloroethene	2.50	2.86		mg/Kg		114	70 - 125
cis-1,3-Dichloropropene	2.50	2.54		mg/Kg		102	64 - 127
Chlorodibromomethane	2.50	2.84		mg/Kg		114	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	2.42		mg/Kg		97	56 - 123
1,2-Dibromoethane (EDB)	2.50	2.78		mg/Kg		111	70 - 125
Dibromomethane	2.50	2.88		mg/Kg		115	70 - 120
1,2-Dichlorobenzene	2.50	2.74		mg/Kg		110	70 - 125
1,3-Dichlorobenzene	2.50	2.57		mg/Kg		103	70 - 125
1,4-Dichlorobenzene	2.50	2.62		mg/Kg		105	70 - 120
Dichlorodifluoromethane	2.50	1.25		mg/Kg		50	40 - 159
1,1-Dichloroethane	2.50	2.75		mg/Kg		110	70 - 125

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

Lab Sample ID: LCS 500-759021/7-A
Matrix: Solid
Analysis Batch: 759273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	2.50	2.75		mg/Kg		110	68 - 127
1,1-Dichloroethene	2.50	2.68		mg/Kg		107	67 - 122
1,2-Dichloropropane	2.50	2.80		mg/Kg		112	67 - 130
1,3-Dichloropropane	2.50	2.80		mg/Kg		112	62 - 136
2,2-Dichloropropane	2.50	2.08		mg/Kg		83	58 - 139
1,1-Dichloropropene	2.50	2.55		mg/Kg		102	70 - 121
Ethylbenzene	2.50	2.56		mg/Kg		103	70 - 123
Hexachlorobutadiene	2.50	2.41		mg/Kg		96	51 - 150
Isopropylbenzene	2.50	2.47		mg/Kg		99	70 - 126
Methylene Chloride	2.50	2.87		mg/Kg		115	69 - 125
Methyl tert-butyl ether	2.50	2.85		mg/Kg		114	55 - 123
Naphthalene	2.50	2.65		mg/Kg		106	53 - 144
n-Butylbenzene	2.50	2.29		mg/Kg		92	68 - 125
N-Propylbenzene	2.50	2.36		mg/Kg		94	69 - 127
p-Isopropyltoluene	2.50	2.46		mg/Kg		98	70 - 125
sec-Butylbenzene	2.50	2.43		mg/Kg		97	70 - 123
Styrene	2.50	2.77		mg/Kg		111	70 - 120
tert-Butylbenzene	2.50	2.46		mg/Kg		98	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.71		mg/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	2.50	2.83		mg/Kg		113	62 - 140
Tetrachloroethene	2.50	2.48		mg/Kg		99	70 - 128
Toluene	2.50	2.45		mg/Kg		98	70 - 125
trans-1,2-Dichloroethene	2.50	2.83		mg/Kg		113	70 - 125
trans-1,3-Dichloropropene	2.50	2.58		mg/Kg		103	62 - 128
1,2,3-Trichlorobenzene	2.50	2.65		mg/Kg		106	51 - 145
1,2,4-Trichlorobenzene	2.50	2.53		mg/Kg		101	57 - 137
1,1,1-Trichloroethane	2.50	2.57		mg/Kg		103	70 - 125
1,1,2-Trichloroethane	2.50	2.92		mg/Kg		117	71 - 130
Trichloroethene	2.50	2.71		mg/Kg		108	70 - 125
Trichlorofluoromethane	2.50	2.25		mg/Kg		90	55 - 128
1,2,3-Trichloropropane	2.50	2.72		mg/Kg		109	50 - 133
1,2,4-Trimethylbenzene	2.50	2.50		mg/Kg		100	70 - 123
1,3,5-Trimethylbenzene	2.50	2.49		mg/Kg		99	70 - 123
Vinyl chloride	2.50	2.17		mg/Kg		87	64 - 126
Xylenes, Total	5.00	5.06		mg/Kg		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: MB 500-759273/7
Matrix: Solid
Analysis Batch: 759273

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00015		0.00025	0.00015	mg/Kg			03/21/24 11:19	1

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

Lab Sample ID: MB 500-759273/7
Matrix: Solid
Analysis Batch: 759273

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			03/21/24 11:19	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			03/21/24 11:19	1
Bromodichloromethane	<0.00037		0.0010	0.00037	mg/Kg			03/21/24 11:19	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			03/21/24 11:19	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			03/21/24 11:19	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			03/21/24 11:19	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			03/21/24 11:19	1
Chloroethane	<0.00050		0.0050	0.00050	mg/Kg			03/21/24 11:19	1
Chloroform	0.00149	J	0.0020	0.00037	mg/Kg			03/21/24 11:19	1
Chloromethane	<0.00032		0.0050	0.00032	mg/Kg			03/21/24 11:19	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			03/21/24 11:19	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			03/21/24 11:19	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			03/21/24 11:19	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			03/21/24 11:19	1
Chlorodibromomethane	<0.00049		0.0010	0.00049	mg/Kg			03/21/24 11:19	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			03/21/24 11:19	1
1,2-Dibromoethane (EDB)	<0.00039		0.0010	0.00039	mg/Kg			03/21/24 11:19	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			03/21/24 11:19	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			03/21/24 11:19	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			03/21/24 11:19	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			03/21/24 11:19	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			03/21/24 11:19	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			03/21/24 11:19	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			03/21/24 11:19	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			03/21/24 11:19	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			03/21/24 11:19	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			03/21/24 11:19	1
2,2-Dichloropropane	<0.00044		0.0050	0.00044	mg/Kg			03/21/24 11:19	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			03/21/24 11:19	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			03/21/24 11:19	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			03/21/24 11:19	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			03/21/24 11:19	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			03/21/24 11:19	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			03/21/24 11:19	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			03/21/24 11:19	1
Naphthalene	0.000373	J	0.0010	0.00033	mg/Kg			03/21/24 11:19	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			03/21/24 11:19	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			03/21/24 11:19	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			03/21/24 11:19	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			03/21/24 11:19	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			03/21/24 11:19	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			03/21/24 11:19	1
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			03/21/24 11:19	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			03/21/24 11:19	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			03/21/24 11:19	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			03/21/24 11:19	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			03/21/24 11:19	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			03/21/24 11:19	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			03/21/24 11:19	1

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

Lab Sample ID: MB 500-759273/7
Matrix: Solid
Analysis Batch: 759273

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	<0.00034		0.0010	0.00034	mg/Kg			03/21/24 11:19	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			03/21/24 11:19	1
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			03/21/24 11:19	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			03/21/24 11:19	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			03/21/24 11:19	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			03/21/24 11:19	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			03/21/24 11:19	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			03/21/24 11:19	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			03/21/24 11:19	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			03/21/24 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*03/21/24 11:19*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*03/21/24 11:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*03/21/24 11:19*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*03/21/24 11:19*	*1*

Lab Sample ID: LCS 500-759273/4
Matrix: Solid
Analysis Batch: 759273

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	0.0571		mg/Kg		114	70 - 120
Bromobenzene	0.0500	0.0539		mg/Kg		108	70 - 122
Bromochloromethane	0.0500	0.0554		mg/Kg		111	65 - 122
Bromodichloromethane	0.0500	0.0532		mg/Kg		106	69 - 120
Bromoform	0.0500	0.0589		mg/Kg		118	56 - 132
Bromomethane	0.0500	0.0562		mg/Kg		112	40 - 152
Carbon tetrachloride	0.0500	0.0548		mg/Kg		110	59 - 133
Chlorobenzene	0.0500	0.0554		mg/Kg		111	70 - 120
Chloroethane	0.0500	0.0437		mg/Kg		87	48 - 136
Chloroform	0.0500	0.0538		mg/Kg		108	70 - 120
Chloromethane	0.0500	0.0481		mg/Kg		96	56 - 152
2-Chlorotoluene	0.0500	0.0527		mg/Kg		105	70 - 125
4-Chlorotoluene	0.0500	0.0519		mg/Kg		104	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0515		mg/Kg		103	64 - 127
Chlorodibromomethane	0.0500	0.0581		mg/Kg		116	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0492		mg/Kg		98	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0565		mg/Kg		113	70 - 125
Dibromomethane	0.0500	0.0523		mg/Kg		105	70 - 120
1,2-Dichlorobenzene	0.0500	0.0550		mg/Kg		110	70 - 125
1,3-Dichlorobenzene	0.0500	0.0534		mg/Kg		107	70 - 125
1,4-Dichlorobenzene	0.0500	0.0531		mg/Kg		106	70 - 120
Dichlorodifluoromethane	0.0500	0.0434		mg/Kg		87	40 - 159
1,1-Dichloroethane	0.0500	0.0531		mg/Kg		106	70 - 125
1,2-Dichloroethane	0.0500	0.0499		mg/Kg		100	68 - 127
1,1-Dichloroethene	0.0500	0.0542		mg/Kg		108	67 - 122

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

Lab Sample ID: LCS 500-759273/4
Matrix: Solid
Analysis Batch: 759273

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	0.0541		mg/Kg		108	67 - 130
1,3-Dichloropropane	0.0500	0.0557		mg/Kg		111	62 - 136
2,2-Dichloropropane	0.0500	0.0457		mg/Kg		91	58 - 139
1,1-Dichloropropene	0.0500	0.0544		mg/Kg		109	70 - 121
Ethylbenzene	0.0500	0.0549		mg/Kg		110	70 - 123
Hexachlorobutadiene	0.0500	0.0525		mg/Kg		105	51 - 150
Isopropylbenzene	0.0500	0.0547		mg/Kg		109	70 - 126
Methylene Chloride	0.0500	0.0525		mg/Kg		105	69 - 125
Methyl tert-butyl ether	0.0500	0.0520		mg/Kg		104	55 - 123
Naphthalene	0.0500	0.0540		mg/Kg		108	53 - 144
n-Butylbenzene	0.0500	0.0533		mg/Kg		107	68 - 125
N-Propylbenzene	0.0500	0.0535		mg/Kg		107	69 - 127
p-Isopropyltoluene	0.0500	0.0549		mg/Kg		110	70 - 125
sec-Butylbenzene	0.0500	0.0548		mg/Kg		110	70 - 123
Styrene	0.0500	0.0561		mg/Kg		112	70 - 120
tert-Butylbenzene	0.0500	0.0547		mg/Kg		109	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0544		mg/Kg		109	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0584		mg/Kg		117	62 - 140
Tetrachloroethene	0.0500	0.0562		mg/Kg		112	70 - 128
Toluene	0.0500	0.0521		mg/Kg		104	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0550		mg/Kg		110	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0521		mg/Kg		104	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0536		mg/Kg		107	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0529		mg/Kg		106	57 - 137
1,1,1-Trichloroethane	0.0500	0.0541		mg/Kg		108	70 - 125
1,1,2-Trichloroethane	0.0500	0.0594		mg/Kg		119	71 - 130
Trichloroethene	0.0500	0.0561		mg/Kg		112	70 - 125
Trichlorofluoromethane	0.0500	0.0479		mg/Kg		96	55 - 128
1,2,3-Trichloropropane	0.0500	0.0541		mg/Kg		108	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0531		mg/Kg		106	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0531		mg/Kg		106	70 - 123
Vinyl chloride	0.0500	0.0511		mg/Kg		102	64 - 126
Xylenes, Total	0.100	0.106		mg/Kg		106	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: MB 500-759494/6
Matrix: Solid
Analysis Batch: 759494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00015		0.00025	0.00015	mg/Kg			03/22/24 11:35	1
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			03/22/24 11:35	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			03/22/24 11:35	1

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

Lab Sample ID: MB 500-759494/6
Matrix: Solid
Analysis Batch: 759494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.00037		0.0010	0.00037	mg/Kg			03/22/24 11:35	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			03/22/24 11:35	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			03/22/24 11:35	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			03/22/24 11:35	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			03/22/24 11:35	1
Chloroethane	<0.00050		0.0050	0.00050	mg/Kg			03/22/24 11:35	1
Chloroform	0.000812	J	0.0020	0.00037	mg/Kg			03/22/24 11:35	1
Chloromethane	<0.00032		0.0050	0.00032	mg/Kg			03/22/24 11:35	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			03/22/24 11:35	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			03/22/24 11:35	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			03/22/24 11:35	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			03/22/24 11:35	1
Chlorodibromomethane	<0.00049		0.0010	0.00049	mg/Kg			03/22/24 11:35	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			03/22/24 11:35	1
1,2-Dibromoethane (EDB)	<0.00039		0.0010	0.00039	mg/Kg			03/22/24 11:35	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			03/22/24 11:35	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			03/22/24 11:35	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			03/22/24 11:35	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			03/22/24 11:35	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			03/22/24 11:35	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			03/22/24 11:35	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			03/22/24 11:35	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			03/22/24 11:35	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			03/22/24 11:35	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			03/22/24 11:35	1
2,2-Dichloropropane	<0.00044		0.0050	0.00044	mg/Kg			03/22/24 11:35	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			03/22/24 11:35	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			03/22/24 11:35	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			03/22/24 11:35	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			03/22/24 11:35	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			03/22/24 11:35	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			03/22/24 11:35	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			03/22/24 11:35	1
Naphthalene	0.000396	J	0.0010	0.00033	mg/Kg			03/22/24 11:35	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			03/22/24 11:35	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			03/22/24 11:35	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			03/22/24 11:35	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			03/22/24 11:35	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			03/22/24 11:35	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			03/22/24 11:35	1
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			03/22/24 11:35	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			03/22/24 11:35	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			03/22/24 11:35	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			03/22/24 11:35	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			03/22/24 11:35	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			03/22/24 11:35	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			03/22/24 11:35	1
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			03/22/24 11:35	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			03/22/24 11:35	1

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

Lab Sample ID: MB 500-759494/6
Matrix: Solid
Analysis Batch: 759494

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	<0.00035		0.0010	0.00035	mg/Kg			03/22/24 11:35	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			03/22/24 11:35	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			03/22/24 11:35	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			03/22/24 11:35	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			03/22/24 11:35	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			03/22/24 11:35	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			03/22/24 11:35	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			03/22/24 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*03/22/24 11:35*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 120*		*03/22/24 11:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*03/22/24 11:35*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*03/22/24 11:35*	*1*

Lab Sample ID: LCS 500-759494/4
Matrix: Solid
Analysis Batch: 759494

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	0.0499		mg/Kg		100	70 - 120
Bromobenzene	0.0500	0.0541		mg/Kg		108	70 - 122
Bromochloromethane	0.0500	0.0475		mg/Kg		95	65 - 122
Bromodichloromethane	0.0500	0.0479		mg/Kg		96	69 - 120
Bromoform	0.0500	0.0436		mg/Kg		87	56 - 132
Bromomethane	0.0500	0.0322		mg/Kg		64	40 - 152
Carbon tetrachloride	0.0500	0.0484		mg/Kg		97	59 - 133
Chlorobenzene	0.0500	0.0515		mg/Kg		103	70 - 120
Chloroethane	0.0500	0.0397		mg/Kg		79	48 - 136
Chloroform	0.0500	0.0496		mg/Kg		99	70 - 120
Chloromethane	0.0500	0.0332		mg/Kg		66	56 - 152
2-Chlorotoluene	0.0500	0.0527		mg/Kg		105	70 - 125
4-Chlorotoluene	0.0500	0.0530		mg/Kg		106	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0498		mg/Kg		100	64 - 127
Chlorodibromomethane	0.0500	0.0458		mg/Kg		92	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0374		mg/Kg		75	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0486		mg/Kg		97	70 - 125
Dibromomethane	0.0500	0.0465		mg/Kg		93	70 - 120
1,2-Dichlorobenzene	0.0500	0.0494		mg/Kg		99	70 - 125
1,3-Dichlorobenzene	0.0500	0.0514		mg/Kg		103	70 - 125
1,4-Dichlorobenzene	0.0500	0.0505		mg/Kg		101	70 - 120
Dichlorodifluoromethane	0.0500	0.0272		mg/Kg		54	40 - 159
1,1-Dichloroethane	0.0500	0.0480		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0493		mg/Kg		99	68 - 127
1,1-Dichloroethene	0.0500	0.0417		mg/Kg		83	67 - 122
1,2-Dichloropropane	0.0500	0.0522		mg/Kg		104	67 - 130
1,3-Dichloropropane	0.0500	0.0538		mg/Kg		108	62 - 136

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

Lab Sample ID: LCS 500-759494/4
Matrix: Solid
Analysis Batch: 759494

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	0.0443		mg/Kg		89	58 - 139
1,1-Dichloropropene	0.0500	0.0502		mg/Kg		100	70 - 121
Ethylbenzene	0.0500	0.0486		mg/Kg		97	70 - 123
Hexachlorobutadiene	0.0500	0.0507		mg/Kg		101	51 - 150
Isopropylbenzene	0.0500	0.0523		mg/Kg		105	70 - 126
Methylene Chloride	0.0500	0.0454		mg/Kg		91	69 - 125
Methyl tert-butyl ether	0.0500	0.0526		mg/Kg		105	55 - 123
Naphthalene	0.0500	0.0373		mg/Kg		75	53 - 144
n-Butylbenzene	0.0500	0.0462		mg/Kg		92	68 - 125
N-Propylbenzene	0.0500	0.0515		mg/Kg		103	69 - 127
p-Isopropyltoluene	0.0500	0.0503		mg/Kg		101	70 - 125
sec-Butylbenzene	0.0500	0.0495		mg/Kg		99	70 - 123
Styrene	0.0500	0.0495		mg/Kg		99	70 - 120
tert-Butylbenzene	0.0500	0.0525		mg/Kg		105	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0477		mg/Kg		95	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0464		mg/Kg		93	62 - 140
Tetrachloroethene	0.0500	0.0542		mg/Kg		108	70 - 128
Toluene	0.0500	0.0474		mg/Kg		95	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0452		mg/Kg		90	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0485		mg/Kg		97	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0409		mg/Kg		82	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0434		mg/Kg		87	57 - 137
1,1,1-Trichloroethane	0.0500	0.0484		mg/Kg		97	70 - 125
1,1,2-Trichloroethane	0.0500	0.0479		mg/Kg		96	71 - 130
Trichloroethene	0.0500	0.0517		mg/Kg		103	70 - 125
Trichlorofluoromethane	0.0500	0.0397		mg/Kg		79	55 - 128
1,2,3-Trichloropropane	0.0500	0.0489		mg/Kg		98	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0507		mg/Kg		101	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0523		mg/Kg		105	70 - 123
Vinyl chloride	0.0500	0.0340		mg/Kg		68	64 - 126
Xylenes, Total	0.100	0.100		mg/Kg		100	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
Toluene-d8 (Surr)	*94*		*75 - 120*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-750326/1-A
Matrix: Solid
Analysis Batch: 751083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0637	J	0.20	0.046	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluoropentanoic acid (PFPeA)	<0.041		0.20	0.041	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorohexanoic acid (PFHxA)	<0.031		0.20	0.031	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluoroheptanoic acid (PFHpA)	<0.038		0.20	0.038	ug/Kg		03/27/24 12:17	03/29/24 13:28	1

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

Lab Sample ID: MB 320-750326/1-A
Matrix: Solid
Analysis Batch: 751083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<0.053		0.20	0.053	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorononanoic acid (PFNA)	<0.022		0.20	0.022	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorodecanoic acid (PFDA)	<0.048		0.20	0.048	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluoroundecanoic acid (PFUnA)	<0.042		0.20	0.042	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorododecanoic acid (PFDoA)	<0.030		0.20	0.030	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorotridecanoic acid (PFTriA)	<0.021		0.20	0.021	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.037		0.20	0.037	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.038		0.20	0.038	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.066		0.20	0.066	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorobutanesulfonic acid (PFBS)	0.0532	J	0.20	0.038	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.037		0.20	0.037	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.029		0.20	0.029	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.049		0.20	0.049	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorooctanesulfonic acid (PFOS)	<0.043		0.20	0.043	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorononanesulfonic acid (PFNS)	<0.029		0.20	0.029	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.052		0.20	0.052	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.047		0.20	0.047	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
Perfluorooctanesulfonamide (FOSA)	<0.033		0.20	0.033	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
NEtFOSA	<0.047		0.20	0.047	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
NMeFOSA	<0.049		0.20	0.049	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
NMeFOSAA	<0.023		0.20	0.023	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
NEtFOSAA	<0.048		0.20	0.048	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
NMeFOSE	<0.047		0.20	0.047	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
NEtFOSE	<0.028		0.20	0.028	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
4:2 FTS	<0.051		0.20	0.051	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
6:2 FTS	<0.027		0.20	0.027	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
8:2 FTS	<0.035		0.20	0.035	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
10:2 FTS	<0.038		0.20	0.038	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.039		0.20	0.039	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
HFPO-DA (GenX)	<0.041		0.20	0.041	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
F-53B Major	<0.035		0.20	0.035	ug/Kg		03/27/24 12:17	03/29/24 13:28	1
F-53B Minor	<0.031		0.20	0.031	ug/Kg		03/27/24 12:17	03/29/24 13:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C5 PFPeA	*85*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C2 PFHxA	*87*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C4 PFHpA	*87*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C4 PFOA	*94*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C5 PFNA	*88*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C2 PFDA	*87*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C2 PFUnA	*75*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C2 PFDoA	*76*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*
13C2 PFTeDA	*74*		*25 - 150*	*03/27/24 12:17*	*03/29/24 13:28*	*1*

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

Lab Sample ID: MB 320-750326/1-A
Matrix: Solid
Analysis Batch: 751083

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 750326

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxDA	62		25 - 150	03/27/24 12:17	03/29/24 13:28	1
13C3 PFBS	78		25 - 150	03/27/24 12:17	03/29/24 13:28	1
18O2 PFHxS	81		25 - 150	03/27/24 12:17	03/29/24 13:28	1
13C4 PFOS	74		25 - 150	03/27/24 12:17	03/29/24 13:28	1
13C8 FOSA	79		10 - 150	03/27/24 12:17	03/29/24 13:28	1
d3-NMeFOSAA	72		25 - 150	03/27/24 12:17	03/29/24 13:28	1
d5-NEtFOSAA	80		25 - 150	03/27/24 12:17	03/29/24 13:28	1
d-N-MeFOSA-M	55		10 - 150	03/27/24 12:17	03/29/24 13:28	1
d-N-EtFOSA-M	57		10 - 150	03/27/24 12:17	03/29/24 13:28	1
d7-N-MeFOSE-M	67		10 - 150	03/27/24 12:17	03/29/24 13:28	1
d9-N-EtFOSE-M	71		10 - 150	03/27/24 12:17	03/29/24 13:28	1
M2-4:2 FTS	75		25 - 150	03/27/24 12:17	03/29/24 13:28	1
M2-6:2 FTS	81		25 - 150	03/27/24 12:17	03/29/24 13:28	1
M2-8:2 FTS	96		25 - 150	03/27/24 12:17	03/29/24 13:28	1
13C3 HFPO-DA	81		25 - 150	03/27/24 12:17	03/29/24 13:28	1
13C2 10:2 FTS	75		25 - 150	03/27/24 12:17	03/29/24 13:28	1

Lab Sample ID: LCS 320-750326/3-A
Matrix: Solid
Analysis Batch: 751083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	2.00	1.99		ug/Kg		99	60 - 135
Perfluoropentanoic acid (PFPeA)	2.00	2.02		ug/Kg		101	60 - 135
Perfluorohexanoic acid (PFHxA)	2.00	2.18		ug/Kg		109	60 - 135
Perfluoroheptanoic acid (PFHpA)	2.00	2.04		ug/Kg		102	60 - 135
Perfluorooctanoic acid (PFOA)	2.00	2.07		ug/Kg		103	60 - 135
Perfluorononanoic acid (PFNA)	2.00	2.07		ug/Kg		103	60 - 135
Perfluorodecanoic acid (PFDA)	2.00	2.02		ug/Kg		101	60 - 135
Perfluoroundecanoic acid (PFUnA)	2.00	2.33		ug/Kg		116	60 - 135
Perfluorododecanoic acid (PFDoA)	2.00	2.08		ug/Kg		104	60 - 135
Perfluorotridecanoic acid (PFTriA)	2.00	1.96		ug/Kg		98	60 - 135
Perfluorotetradecanoic acid (PFTeA)	2.00	1.91		ug/Kg		96	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	2.00	2.08		ug/Kg		104	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	2.00	1.92		ug/Kg		96	60 - 135
Perfluorobutanesulfonic acid (PFBS)	1.78	1.82		ug/Kg		103	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.90		ug/Kg		101	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.79		ug/Kg		98	60 - 135
Perfluoroheptanesulfonic acid (PFHpS)	1.91	2.11		ug/Kg		110	60 - 135
Perfluorooctanesulfonic acid (PFOS)	1.86	1.95		ug/Kg		105	60 - 135

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

Lab Sample ID: LCS 320-750326/3-A
Matrix: Solid
Analysis Batch: 751083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750326

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorononanesulfonic acid (PFNS)			1.92	1.96		ug/Kg		102	60 - 135		
Perfluorodecanesulfonic acid (PFDS)			1.93	1.89		ug/Kg		98	60 - 135		
Perfluorododecanesulfonic acid (PFDoS)			1.94	1.77		ug/Kg		91	60 - 135		
Perfluorooctanesulfonamide (FOSA)			2.00	2.10		ug/Kg		105	60 - 135		
NEtFOSA			2.00	2.11		ug/Kg		106	60 - 135		
NMeFOSA			2.00	2.06		ug/Kg		103	60 - 135		
NMeFOSAA			2.00	2.24		ug/Kg		112	60 - 135		
NEtFOSAA			2.00	2.15		ug/Kg		108	60 - 135		
NMeFOSE			2.00	2.16		ug/Kg		108	60 - 135		
NEtFOSE			2.00	2.02		ug/Kg		101	60 - 135		
4:2 FTS			1.88	1.98		ug/Kg		105	60 - 135		
6:2 FTS			1.90	2.21		ug/Kg		116	60 - 135		
8:2 FTS			1.92	2.09		ug/Kg		109	60 - 135		
10:2 FTS			1.93	1.98		ug/Kg		102	60 - 135		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			1.89	2.37		ug/Kg		125	60 - 135		
HFPO-DA (GenX)			2.00	2.26		ug/Kg		113	60 - 135		
F-53B Major			1.87	2.21		ug/Kg		118	60 - 135		
F-53B Minor			1.89	1.91		ug/Kg		101	60 - 135		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*66*		*25 - 150*
13C5 PFPeA	*84*		*25 - 150*
13C2 PFHxA	*91*		*25 - 150*
13C4 PFHpA	*97*		*25 - 150*
13C4 PFOA	*92*		*25 - 150*
13C5 PFNA	*92*		*25 - 150*
13C2 PFDA	*91*		*25 - 150*
13C2 PFUnA	*77*		*25 - 150*
13C2 PFDoA	*83*		*25 - 150*
13C2 PFTeDA	*83*		*25 - 150*
13C2 PFHxDA	*67*		*25 - 150*
13C3 PFBS	*84*		*25 - 150*
18O2 PFHxS	*81*		*25 - 150*
13C4 PFOS	*78*		*25 - 150*
13C8 FOSA	*82*		*10 - 150*
d3-NMeFOSAA	*70*		*25 - 150*
d5-NEtFOSAA	*79*		*25 - 150*
d-N-MeFOSA-M	*76*		*10 - 150*
d-N-EtFOSA-M	*72*		*10 - 150*
d7-N-MeFOSE-M	*65*		*10 - 150*
d9-N-EtFOSE-M	*70*		*10 - 150*
M2-4:2 FTS	*85*		*25 - 150*
M2-6:2 FTS	*91*		*25 - 150*
M2-8:2 FTS	*98*		*25 - 150*
13C3 HFPO-DA	*82*		*25 - 150*

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

Lab Sample ID: LCS 320-750326/3-A
Matrix: Solid
Analysis Batch: 751083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750326

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 10:2 FTS	87		25 - 150

Lab Sample ID: LLCS 320-750326/2-A
Matrix: Solid
Analysis Batch: 751083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750326

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.400	0.504		ug/Kg		126	50 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.464		ug/Kg		116	50 - 150
Perfluorohexanoic acid (PFHxA)	0.400	0.495		ug/Kg		124	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.400	0.490		ug/Kg		122	50 - 150
Perfluorooctanoic acid (PFOA)	0.400	0.476		ug/Kg		119	50 - 150
Perfluorononanoic acid (PFNA)	0.400	0.520		ug/Kg		130	50 - 150
Perfluorodecanoic acid (PFDA)	0.400	0.480		ug/Kg		120	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.400	0.485		ug/Kg		121	50 - 150
Perfluorododecanoic acid (PFDoA)	0.400	0.495		ug/Kg		124	50 - 150
Perfluorotridecanoic acid (PFTriA)	0.400	0.426		ug/Kg		106	50 - 150
Perfluorotetradecanoic acid (PFTeA)	0.400	0.400		ug/Kg		100	50 - 150
Perfluoro-n-hexadecanoic acid (PFHxDA)	0.400	0.444		ug/Kg		111	50 - 150
Perfluoro-n-octadecanoic acid (PFODA)	0.400	0.339		ug/Kg		85	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.355	0.462		ug/Kg		130	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.376	0.436		ug/Kg		116	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.365	0.409		ug/Kg		112	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.382	0.438		ug/Kg		115	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.372	0.408		ug/Kg		110	50 - 150
Perfluorononanesulfonic acid (PFNS)	0.385	0.405		ug/Kg		105	50 - 150
Perfluorodecanesulfonic acid (PFDS)	0.386	0.346		ug/Kg		90	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.388	0.316		ug/Kg		82	50 - 150
Perfluorooctanesulfonamide (FOSA)	0.400	0.467		ug/Kg		117	50 - 150
NEtFOSA	0.400	0.463		ug/Kg		116	50 - 150
NMeFOSA	0.400	0.455		ug/Kg		114	50 - 150
NMeFOSAA	0.400	0.506		ug/Kg		127	50 - 150
NEtFOSAA	0.400	0.484		ug/Kg		121	50 - 150
NMeFOSE	0.400	0.489		ug/Kg		122	50 - 150
NEtFOSE	0.400	0.437		ug/Kg		109	50 - 150
4:2 FTS	0.375	0.477		ug/Kg		127	50 - 150
6:2 FTS	0.381	0.453		ug/Kg		119	50 - 150
8:2 FTS	0.384	0.410		ug/Kg		107	50 - 150

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

Lab Sample ID: LLCS 320-750326/2-A
Matrix: Solid
Analysis Batch: 751083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 750326

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
10:2 FTS			0.386	0.398		ug/Kg		103	50 - 150		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			0.378	0.494		ug/Kg		131	50 - 150		
HFPO-DA (GenX)			0.400	0.458		ug/Kg		114	50 - 150		
F-53B Major			0.374	0.441		ug/Kg		118	50 - 150		
F-53B Minor			0.378	0.422		ug/Kg		112	50 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*73*		*25 - 150*
13C5 PFPeA	*86*		*25 - 150*
13C2 PFHxA	*84*		*25 - 150*
13C4 PFHpA	*88*		*25 - 150*
13C4 PFOA	*94*		*25 - 150*
13C5 PFNA	*86*		*25 - 150*
13C2 PFDA	*86*		*25 - 150*
13C2 PFUnA	*75*		*25 - 150*
13C2 PFDoA	*81*		*25 - 150*
13C2 PFTeDA	*79*		*25 - 150*
13C2 PFHxDA	*73*		*25 - 150*
13C3 PFBS	*79*		*25 - 150*
18O2 PFHxS	*74*		*25 - 150*
13C4 PFOS	*78*		*25 - 150*
13C8 FOSA	*83*		*10 - 150*
d3-NMeFOSAA	*74*		*25 - 150*
d5-NEtFOSAA	*77*		*25 - 150*
d-N-MeFOSA-M	*74*		*10 - 150*
d-N-EtFOSA-M	*69*		*10 - 150*
d7-N-MeFOSE-M	*70*		*10 - 150*
d9-N-EtFOSE-M	*75*		*10 - 150*
M2-4:2 FTS	*77*		*25 - 150*
M2-6:2 FTS	*89*		*25 - 150*
M2-8:2 FTS	*97*		*25 - 150*
13C3 HFPO-DA	*81*		*25 - 150*
13C2 10:2 FTS	*88*		*25 - 150*

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Client Sample ID: IDW 1
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	759401	MR	EET CHI	03/21/24 14:59

Client Sample ID: IDW 1
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-1
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759021	WRE	EET CHI	03/15/24 00:00
Total/NA	Analysis	8260D		50	759273	W1T	EET CHI	03/21/24 17:11
Total/NA	Prep	SHAKE			750326	V1T	EET SAC	03/27/24 12:17
Total/NA	Analysis	537 (modified)		1	751083	RS1	EET SAC	03/29/24 14:59

Client Sample ID: IDW 2
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	759401	MR	EET CHI	03/21/24 14:59

Client Sample ID: IDW 2
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-2
Matrix: Solid
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759021	WRE	EET CHI	03/15/24 00:00
Total/NA	Analysis	8260D		50	759273	W1T	EET CHI	03/21/24 17:36
Total/NA	Prep	SHAKE			750326	V1T	EET SAC	03/27/24 12:17
Total/NA	Analysis	537 (modified)		1	751083	RS1	EET SAC	03/29/24 15:29

Client Sample ID: IDW 3
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	759401	MR	EET CHI	03/21/24 14:59

Client Sample ID: IDW 3
Date Collected: 03/15/24 00:00
Date Received: 03/19/24 09:55

Lab Sample ID: 500-247671-3
Matrix: Solid
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759021	WRE	EET CHI	03/15/24 00:00
Total/NA	Analysis	8260D		50	759273	W1T	EET CHI	03/21/24 17:59
Total/NA	Prep	SHAKE			750326	V1T	EET SAC	03/27/24 12:17
Total/NA	Analysis	537 (modified)		1	751083	RS1	EET SAC	03/29/24 15:40

Client: Endpoint Solutions Corp
Job ID: 500-247671-1
Project/Site: TYCO-SOILS VARIOUS IDW

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
Job ID: 500-247671-1
Project/Site: TYCO-SOILS VARIOUS IDW

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	08-31-24

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone 708 534-5200 Fax. 708-534 5211

Chain of Custody Record

eurofins Environment Testing

500-247671

Client Information	Sampler: Kirk Kapfhammer	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-121424 49042 2
Client Contact: Mr Kirk Kapfhammer	Phone: 4148973238	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page ~~2 of 2~~ 1 of 1
Company: Endpoint Solutions Corp	PWSID:			Job #: 415-006-004

Address: 6871 S Lover's Lane	Due Date Requested:	Analysis Requested
City: Franklin	TAT Requested (days): Standard	
State, Zip: WI, 53132	Compliance Project: Δ Yes Δ No	
Phone: 414-4271200(Tel)	PO #: Purchase Order not required	
Email: kirk@endpointcorporation.com	WO #:	
Project Name: TYCO - SOILS	Project #: 50016218	
Site: Various - IDW	SSOW#:	

500-247671 COC

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4 5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (36 Analytes)	8260D - VOC	6010D, 7471B, 8270E	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
1 IDW 1	3/15/24		C	~~Water~~ Soil			X	X			
2 IDW 2	↓		C	~~Water~~ Soil			X	X			
3 IDW 3	↓		C	~~Water~~ Soil			X	X			
				Water							
				Water							
				Water							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

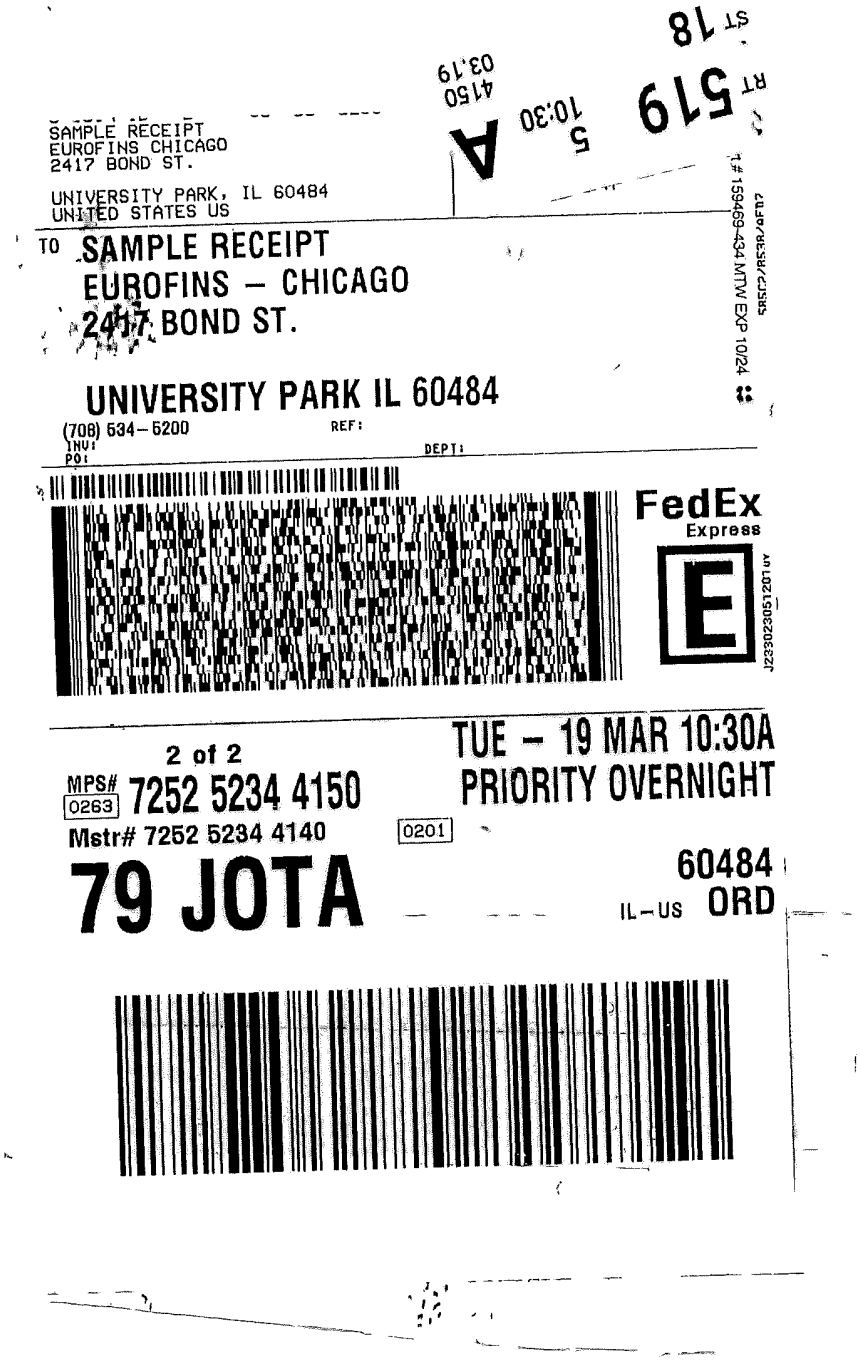
Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3/18/24			3/18/24 1520	Eurofins
2		3/18/24 1700	Eurofins		3/19/24 0955	ECDA
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 3.5 → 2.8

500-247671 Waybi



Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone. 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s)	COC No: 500-185935 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): State - Wisconsin		Job #: 500-247671-1
Address: 880 Riverside Parkway	Due Date Requested: 4/8/2024			
City: West Sacramento	TAT Requested (days)			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: TYCO-SOILS VARIOUS IDW	Project #: 50016218			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B NaOH, C - Zn Acetate, D - Nitric Acid, E NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N None, O AsNaO2, P Na2O4S, Q - Na2SO3, R - Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI/Shake_Bath_28D PFAS, Standard List (36 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
IDW 1 (500-247671-1)	3/15/24	Central		Solid			X	1	
IDW 2 (500-247671-2)	3/15/24	Central		Solid			X	1	
IDW 3 (500-247671-3)	3/15/24	Central		Solid			X	1	

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/tests/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.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date.	Time.	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Rhi Scott	3/19/24 1605			3.20.24 930	
2						
3						

Custody Seals Intact:	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No	2370672	1.0c

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-247671-1

Login Number: 247671
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	2.8
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 <6mm (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: 500-247671-1

Login Number: 247671
List Number: 2
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 03/20/24 04:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2370672
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	1.0c
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	Received project as a subcontract.
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-247671-1	IDW 1	86	93	90	93	101	91	85	68
500-247671-2	IDW 2	94	90	92	90	94	82	79	73
500-247671-3	IDW 3	81	89	94	88	99	91	87	76
LCS 320-750326/3-A	Lab Control Sample	66	84	91	97	92	92	91	77
LLCS 320-750326/2-A	Lab Control Sample	73	86	84	88	94	86	86	75
MB 320-750326/1-A	Method Blank	87	85	87	87	94	88	87	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-247671-1	IDW 1	66	57	57	79	79	72	84	71
500-247671-2	IDW 2	75	69	58	81	75	66	74	75
500-247671-3	IDW 3	73	63	53	83	80	77	85	77
LCS 320-750326/3-A	Lab Control Sample	83	83	67	84	81	78	82	70
LLCS 320-750326/2-A	Lab Control Sample	81	79	73	79	74	78	83	74
MB 320-750326/1-A	Method Blank	76	74	62	78	81	74	79	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
500-247671-1	IDW 1	70	58	55	64	63	78	97	98
500-247671-2	IDW 2	80	59	62	70	71	80	88	95
500-247671-3	IDW 3	84	59	59	55	62	85	94	109
LCS 320-750326/3-A	Lab Control Sample	79	76	72	65	70	85	91	98
LLCS 320-750326/2-A	Lab Control Sample	77	74	69	70	75	77	89	97
MB 320-750326/1-A	Method Blank	80	55	57	67	71	75	81	96

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-247671-1	IDW 1	85	72
500-247671-2	IDW 2	90	88
500-247671-3	IDW 3	91	88
LCS 320-750326/3-A	Lab Control Sample	82	87
LLCS 320-750326/2-A	Lab Control Sample	81	88
MB 320-750326/1-A	Method Blank	81	75

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO-SOILS VARIOUS IDW

Job ID: 500-247671-1

PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

Alyssa Sellwood
Complex Sites Project Manager, Remediation and Redevelopment Program
State of Wisconsin Department of Natural Resources
101 South Webster Street
Box 7921
Madison, WI 53707-7921

Arcadis U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee
Wisconsin 53202
Phone: 414 276 7742
Fax: 414 276 7603
www.arcadis.com

Date: September 3, 2024
Our Ref: 30168807

Subject: Deep Aquifer Bedrock Well Design and Long-Term Monitoring Update – Quarterly Deep Private Well Update (June - July 2024)
Tyco Fire Technology Center, Marinette, WI
BRRTS# 02-38-580694

Dear Ms. Sellwood,

On behalf of Tyco Fire Products LP (Tyco), Arcadis U.S., Inc. (Arcadis) prepared this Quarterly Deep Private Well Update in response to the Wisconsin Department of Natural Resources (WDNR) letter dated November 17, 2023. The November 2023 WDNR letter commented on the submittal of a quarterly deep private well update starting in February 2024 and lasting through the final deep well installations.

To fulfill the WDNR request, Arcadis is providing the current deep private well installation status update regarding the Potable Well Sampling Area (PWSA). This includes the information requested within the November 2023 WDNR letters.

Tyco continues to investigate per- and poly-fluoroalkyl substances (PFAS) potentially related to the Tyco Fire Technology Center located at 2700 Industrial Parkway South in Marinette, Wisconsin (the Site; **Figure 1**).

Continued Efforts For Deep Replacement Potable Wells

Tyco continues to install private deep bedrock wells as a drinking water solution for neighbors that request to participate in the program. By the end of July 2024, Tyco successfully completed private replacements for 55 wells (**Table X.4)** and has agreements to install 66 additional wells. Table X.4 also includes status of sampling of the new deep replacement potable wells. Copies of the letter notifications provided to residents with their results are sent separately to the WDNR via email. All data provided to date continue to support deep wells as a permanent drinking water solution for the PWSA.

The next deep private residential quarterly update will be submitted in fourth quarter of 2024.

Sincerely,
Arcadis U.S., Inc.

Matt Coleman
Project Communications Manager

CC. Denice Nelson, JCI
Scott Wahl, JCI

Enclosures:
Table X.4 - LTDW Deep Well Installation Progress Update
Figure 1

Table X.4
Quarterly Deep Private Well Update
Tyco Fire Products LP
Marinette, Wisconsin

WI Unique Well ID	Parcel Number	House Number	Street Name	Previous Well ID	Replacement Well ID	Well Depth (ft bgs)	Retrofit Liner	Well Replacement Date	Sampling Date #1	Sampling Date #2	Sampling Date #3	Sampling Date #4	Sampling Date #5 - Final
AAW650	024-02229.000	N2881	Shore Drive	WS-072	WS-072R	562	N	12/6/2022	12/12/2022	12/12/2023; 1/20/2023	3/21/2023	10/31/2023	12/26/2023
AAW649	024-02253.001	N2713	Shore Drive	WS-132	WS-132R	542	N	12/5/2022	12/12/2022	1/26/2023; 1/27/2023	6/20/2023	--	3/14/2024
AAV479	024-01345.001	W964	County Road B	WS-037	WS-037R	520	N	1/15/2023	1/16/2023	1/31/2023	5/24/2023	--	5/3/2024
AAV483	024-01855.000	W889	County Road B	WS-133	WS-133R	510	N	2/1/2023	2/2/2023	2/7/2023	6/20/2023	--	3/11/2024; 4/29/2024
AAT584	024-01856.007	N2816	Stanley Lane	WS-120	WS-120R	480	N	2/15/2023	2/16/2023	2/21/2023	6/21/2023	--	3/15/2024
AAV497	024-01812.007	W716	County Road B	WS-054	WS-054R	600	N	3/22/2023	3/23/2023	6/22/2023; 7/10/2023; 8/24/2023	2/13/2024	5/1/2024	--
AAV516	024-01344.001	W959	County Road B	WS-034	WS-034R	540	N	5/19/2023	5/22/2023	5/30/2023	10/31/2023	2/12/2024	5/1/2024
AAV515	024-01849.001	W905	County Road B	WS-053	WS-053R	520	N	5/18/2023	5/19/2023	6/2/2023	--	3/7/2024	6/26/2024
AAZ789	024-01851.000	W896	County Road B	WS-126	WS-126R	480	Y [1]	6/16/2023	9/6/2023	10/31/2023	4/10/2024	6/3/2024	--
ABO263	024-01852.000	W877	Madsen Road	WS-122	WS-122R	520	N	9/5/2023	9/7/2023	10/3/2023	3/18/2024	6/18/2024	--
ABO302	024-02196.000	W461	University Drive	WS-062	WS-062R	540	N	9/7/2023	9/12/2023	10/11/2023	3/18/2024	6/20/2024	--
AAZ791	024-01354.001	W924	Rader Road	WS-112	WS-112R	484	N	8/28/2023	9/26/2023	9/28/2023	2/13/2024	5/1/2024	--
AAZ785	024-01856.012	N2778	Stanley Lane	WS-142	WS-142R	522	N	6/26/2023	9/27/2023	10/20/2023	2/15/2024	6/7/2024	--
ABO946	024-02230.001	N2861	Shore Drive	WS-090	WS-090R	542	N	9/21/2023	10/5/2023	10/10/2023	2/12/2024	7/8/2024	--
ABO948	024-02231.000	N2849	Shore Drive	WS-068	WS-068R	542	N	9/25/2023	10/5/2023	10/18/2023	2/15/2024	6/26/2024	--
ABO938	024-01834.000	N2969	Shore Drive	WS-019	WS-019R	542	N	9/27/2023	10/6/2023	10/13/2023	2/13/2024	7/12/2024	--
ABP340	024-01864.004	Undeveloped	Green Gable Road/ Rader Road	--	WS-168R	520	N	10/10/2023	10/10/2023	12/20/2023	2/16/2024	--	--
ABP385	024-01864.005	N2740	Green Gable Road	WS-165	WS-165R	500	N	10/10/2023	10/12/2023	11/8/2023	3/6/2024	7/12/2024	--
ABP499	024-01864.003	W688	Rader Road	WS-083	WS-083R	500	N	10/16/2023	10/17/2023	12/28/2023	2/16/2024	--	--
ABP486	024-01864.002	N2718	Green Gable Road	WS-166	WS-166R	500	N	10/13/2023	10/17/2023	12/20/2023	2/16/2024	--	--
ABO264	024-01347.000	W907	Madsen Road	WS-167	WS-167R	522	N	9/5/2023	9/8/2023	12/13/2023	2/27/2024	--	--
AAE171	024-01865.001	W691	Rader Road	WS-141	WS-141R	545	N	9/29/2023	4/1/2024	12/11/2023	4/1/2024	--	--
AAZ790	024-01830.000	N2936	Green Gable Road	WS-052	WS-052R	500	N	10/30/2023	12/7/2023	12/13/2023	4/2/2024	--	--
ABR795	024-02233.000	W536	Weigers Road	WS-097	WS-097R	582	N	1/9/2024	1/23/2024	1/26/2024	5/9/2024	--	--
ABR781	024-02240.000	N2825	Shore Drive	WS-099	WS-099R	602	N	1/8/2024	1/25/2024	--	5/9/2024	--	--
ABR796	024-02236.000	W546	Weigers Road	WS-100	WS-100R	582	N	1/2/2024	1/25/2024	1/25/2024	5/1/2024	--	--
ABS159	024-01345.002	W966	County Road B	WS-158	WS-158R	500	N	2/7/2024	2/8/2024	6/24/2024	--	--	--
ABT026	024-01812.005	W732	County Road B	WS-008	WS-008R	520	N	3/20/2024	3/25/2024	4/4/2024	--	--	--
ABT044	024-01812.002_B	W752	County Road B	WS-007B	WS-007BR	540	N	3/22/2024	3/26/2024	--	--	--	--
ABT135	024-01811.000	W725	County Road B	WS-006	WS-006R	520	N	4/1/2024	4/11/2024	5/14/2024	--	--	--
ABT154	024-01815.002	W761	County Road B	WS-146AR	WS-146ARD	500	N	4/2/2024	4/11/2024	5/3/2024	--	--	--
ABT639	024-01346.000	W939	Madsen Road	WS-160	WS-160R	540	N	5/1/2024	5/2/2024	5/17/2024	--	--	--
ABT638	024-01819.000	W866	County Road B	WS-005	WS-005R	515	N	5/4/2024	5/7/2024	5/15/2024	--	--	--
ABT349	024-01848.000	N2819	Green Gable Road	WS-011	WS-011R	540	N	5/12/2024	7/16/2024	--	--	--	--
AAZ787	024-01856.026	N2731	Stanley Lane	WS-066	WS-066R	564	N	5/22/2024	7/15/2024	7/19/2024	--	--	--
ABU677	024-02238.001	W559	Weigers Road	WS-117	WS-117R	510	N	5/28/2024	6/18/2024	6/18/2024	--	--	--
ABU678	024-02226.000	N2830	Shore Drive	WS-147	WS-147R	542	N	5/29/2024	--	--	--	--	--

Notes provided on Page 2

Table X.4
Quarterly Deep Private Well Update
Tyco Fire Products LP
Marinette, Wisconsin

WI Unique Well ID	Parcel Number	House Number	Street Name	Previous Well ID	Replacement Well ID	Well Depth (ft bgs)	Retrofit Liner	Well Replacement Date	Sampling Date #1	Sampling Date #2	Sampling Date #3	Sampling Date #4	Sampling Date #5 - Final
ABT640	024-01824.000	W797	County Road B	WS-023	WS-023R	540	N	6/14/2024	6/20/2024	7/18/2024	--	--	--
AAB612	024-02242.000	N2829	Shore Drive	WS-081	WS-081R	607	N	6/18/2024	--	--	--	--	--
ABV398	024-01856.019	N2754	Stanley Lane	WS-076	WS-076R	540	N	6/19/2024	6/20/2024	--	--	--	--
ABV046	024-01831.000	N2922	Green Gable Road	WS-065	WS-065R	500	N	6/20/2024	7/15/2024	--	--	--	--
ABV443	024-01833.000	N2995	Shore Drive	WS-013	WS-013R	510	N	6/21/2024	7/9/2024	7/12/2024	--	--	--
AAB609	024-01866.001	N2655	Shore Drive	WS-154	WS-154R	523	N	6/24/2024	--	--	--	--	--
ABV552	024-01841.000	W605	Weigers Road	WS-092	WS-092R	582	N	6/24/2024	--	--	--	--	--
ABV554	024-02222.000	N2844	Shore Drive	WS-106R	WS-106RD	502	N	6/25/2024	7/9/2024	7/9/2024	--	--	--
AAB611	024-02224.000	N2824	Shore Drive	WS-121B	WS-121BR	504	N	6/26/2024	--	--	--	--	--
ABV047	024-01828.000	N2990	Green Gable Road	WS-058	WS-058R	500	N	6/26/2024	7/16/2024	--	--	--	--
AAB610	024-02246.001	N2788	Shore Drive	WS-111	WS-111	524	N	7/11/2024	--	--	--	--	--
AAB614	024-02260.002	W608	Rader Road	WS-129	WS-129	505	N	7/14/2024	--	--	--	--	--
ABW307	024-01816.000	N3051	Green Gable Road	WS-057	WS-057R	500	N	7/19/2024	7/22/2024	--	--	--	--
ABV783	024-02228.000	N2897	Shore Drive	WS-063	WS-063R	605	N	7/22/2024	--	--	--	--	--
ABV738	024-02214.000	N2896	Shore Drive	WS-071	WS-071R	505	N	7/27/2024	--	--	--	--	--
AAB615	024-01858.003	W777	Rader Road	WS-136	WS-136R	505	N	7/29/2024	--	--	--	--	--
ABW611	024-02237.000	W596	Weigers Road	WS-102	WS-102R	580	N	7/30/2024	--	--	--	--	--
ABW618	024-02234.000	W558	Weigers Road	WS-131	WS-131R	582	N	7/31/2024	--	--	--	--	--

Notes:

1 = retrofit liner consists of a 4-inch steel liner that has been grouted in place to a depth of approximately 300 feet below ground surface within the existing deep well (Arcadis 2023. Deep Aquifer Bedrock Well Design and Long-Term Monitoring – Interim Response Status Update. August).

Orange indicates new data point (well replacement or sample) since the previous quarterly report submittal.

Acronyms and Abbreviations:

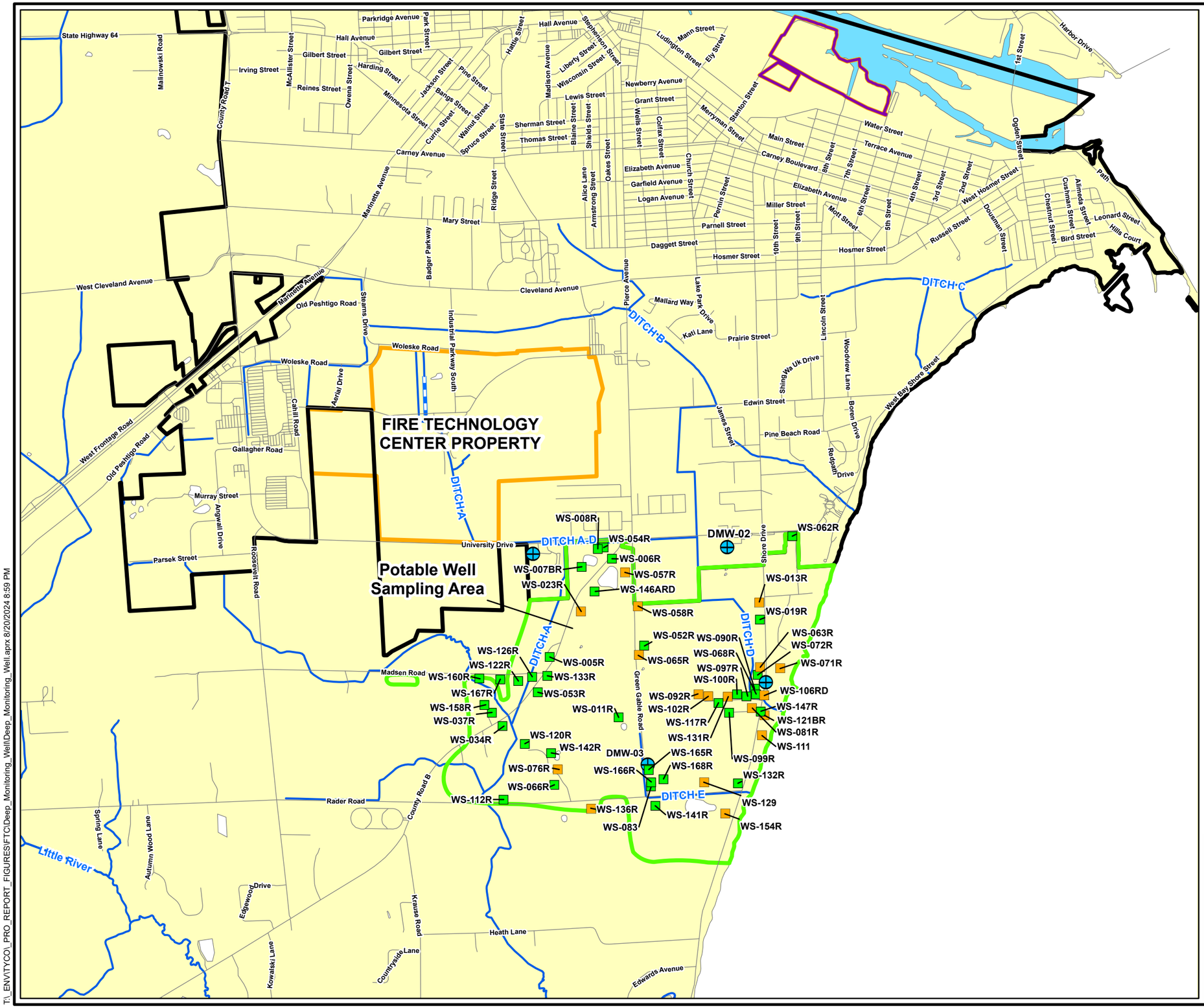
-- = not applicable

ft bgs = feet below ground surface

ID = identification

N = no

Y = yes



LEGEND:

- DEEP REPLACEMENT POTABLE WELL 2Q-3Q2024
- DEEP REPLACEMENT POTABLE WELL
- DEEP MONITORING WELL LOCATION
- POTABLE WELL SAMPLING AREA
- STANTON STREET FACILITY BOUNDARY
- APPROXIMATE SITE PROPERTY BOUNDARY
- APPROXIMATE MARINETTE CITY BOUNDARY
- WATERBODY
- DITCH OR STREAM
- ROAD

0 2,000 4,000

SCALE IN FEET

TYCO FIRE PRODUCTS LP
MARINETTE, WISCONSIN

DEEP POTABLE WELL LOCATIONS

ARCADIS | FIGURE 1

T:_ENV\TYCO_PRO_REPORT_FIGURES\FTC\Deep_Monitoring_Well\Deep_Monitoring_Well.aprx 8/20/2024 8:59 PM