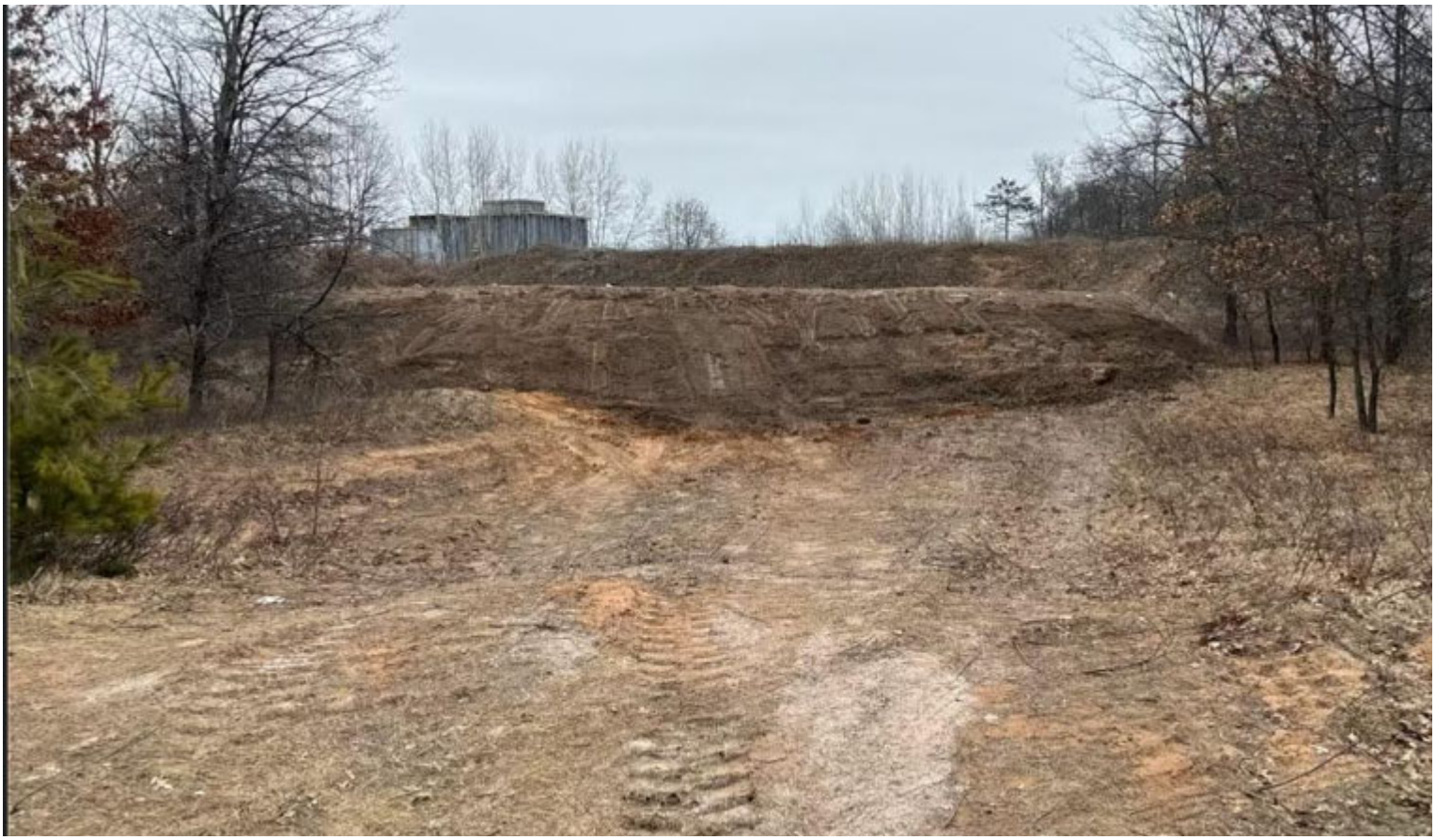
Sellwood, Alyssa A - DNR

From: Denice Nelson <denice.karen.nelson@jci.com>
Sent: Friday, April 18, 2025 10:28 AM
To: Sellwood, Alyssa A - DNR
Subject: Re: Request to reuse soil on site: 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 300 CY of drill cuttings generated during deep well installation activities was reused within the Southern Beneficial Reuse Area following WDNR's approval on March 18, 2025.
- The soil was spread on March 28, 2025.
- 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

+1 651 280 7259 cell

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From: Sellwood, Alyssa A - DNR
Sent: Tuesday, March 18, 2025 3:08 PM
To: Denice Nelson
Subject: RE: Request to reuse soil on site: Drill cuttings

Denice - Thank you for providing the activity-specific soil management plan and characterization for soil generated during the installation of deep private wells.

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.

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

Our core values include professionalism, integrity, and customer service.
Please visit our survey to provide feedback on your experience interacting with any DNR employee.

From: Denice Nelson <denice.karen.nelson@jci.com>
Sent: Tuesday, March 18, 2025 2:55 PM
To: Sellwood, Alyssa A - DNR <alyssa.sellwood@wisconsin.gov>
Subject: Request to reuse soil on site: 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 (CY)
Characterization results:	One stockpile was 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]. The stockpile was sampled as follows:

	• WC-Bin3-022725 (~300CY, deep private well installations): Two representative soil samples were collected (WC-Bin3A and WC-Bin3B)
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 (weather pending).

[1] *VOCs were either not detected in the samples or were considered non-detect because the detections related to Methylene Chloride and p-Isopropyltoluene were below the laboratory reporting limits.*
Methylene Chloride and p-Isopropyltoluene are not constituents of concern for this Site. Methylene Chloride is also known to be common laboratory contaminant.

A 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

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Johnson Controls
5757 North Green Bay Avenue
Glendale, WI 53209
USA

Parameters	Method	Unit	WC-Bin 3A-022725 02/27/2025 500-264746-1	WC-Bin 3B-022725 02/27/2025 500-264746-2
GC/MS VOA				
1,1,1,2-Tetrachloroethane	8260D	mg/Kg	<0.066	<0.085
1,1,1-Trichloroethane	8260D	mg/Kg	<0.045	<0.058
1,1,2,2-Tetrachloroethane	8260D	mg/Kg	<0.064	<0.083
1,1,2-Trichloroethane	8260D	mg/Kg	<0.072	<0.094
1,1-Dichloroethane	8260D	mg/Kg	<0.036	<0.047
1,1-Dichloroethene	8260D	mg/Kg	<0.048	<0.062
1,1-Dichloropropene	8260D	mg/Kg	<0.033	<0.043
1,2,3-Trichlorobenzene	8260D	mg/Kg	<0.035	<0.045
1,2,3-Trichloropropane	8260D	mg/Kg	<0.15	<0.19
1,2,4-Trichlorobenzene	8260D	mg/Kg	<0.031	<0.040
1,2,4-Trimethylbenzene	8260D	mg/Kg	<0.030	<0.039
1,2-Dibromo-3-Chloropropane	8260D	mg/Kg	<0.40	<0.52
1,2-Dibromoethane (EDB)	8260D	mg/Kg	<0.056	<0.072
1,2-Dichlorobenzene	8260D	mg/Kg	<0.047	<0.061
1,2-Dichloroethane	8260D	mg/Kg	<0.057	<0.074
1,2-Dichloropropane	8260D	mg/Kg	<0.037	<0.048
1,3,5-Trimethylbenzene	8260D	mg/Kg	<0.029	<0.037
1,3-Dichlorobenzene	8260D	mg/Kg	<0.040	<0.052
1,3-Dichloropropane	8260D	mg/Kg	<0.056	<0.072
1,4-Dichlorobenzene	8260D	mg/Kg	<0.045	<0.058
2,2-Dichloropropane	8260D	mg/Kg	<0.048	<0.062
2-Chlorotoluene	8260D	mg/Kg	<0.036	<0.046
4-Chlorotoluene	8260D	mg/Kg	<0.034	<0.044
Benzene	8260D	mg/Kg	<0.012	<0.016
Bromobenzene	8260D	mg/Kg	<0.059	<0.077
Bromochloromethane	8260D	mg/Kg	<0.050	<0.064
Bromodichloromethane	8260D	mg/Kg	<0.056	<0.073
Bromoform	8260D	mg/Kg	<0.095	<0.12
Bromomethane	8260D	mg/Kg	<0.18	<0.23
Carbon tetrachloride	8260D	mg/Kg	<0.041	<0.053
Chlorobenzene	8260D	mg/Kg	<0.041	<0.053
Chlorodibromomethane	8260D	mg/Kg	<0.082	<0.11
Chloroethane	8260D	mg/Kg	<0.047	<0.060
Chloroform	8260D	mg/Kg	0.15 J B	<0.12
Chloromethane	8260D	mg/Kg	<0.078	<0.10
cis-1,2-Dichloroethene	8260D	mg/Kg	<0.041	<0.053
cis-1,3-Dichloropropene	8260D	mg/Kg	<0.051	<0.067
Dibromomethane	8260D	mg/Kg	<0.058	<0.075
Dichlorodifluoromethane	8260D	mg/Kg	<0.18	<0.23
Ethylbenzene	8260D	mg/Kg	<0.017	<0.022
Hexachlorobutadiene	8260D	mg/Kg	<0.053	<0.069
Isopropyl ether	8260D	mg/Kg	<0.038	<0.049
Isopropylbenzene	8260D	mg/Kg	<0.029	<0.037
Methyl tert-butyl ether	8260D	mg/Kg	<0.043	<0.056
Methylene Chloride	8260D	mg/Kg	<0.21	<0.28
Naphthalene	8260D	mg/Kg	<0.044	<0.057
n-Butylbenzene	8260D	mg/Kg	<0.032	<0.042
N-Propylbenzene	8260D	mg/Kg	<0.032	<0.041
p-Isopropyltoluene	8260D	mg/Kg	0.058 J	<0.038
sec-Butylbenzene	8260D	mg/Kg	<0.027	<0.035

Parameters	Method	Unit	WC-Bin 3A-022725 02/27/2025 500-264746-1	WC-Bin 3B-022725 02/27/2025 500-264746-2
Styrene	8260D	mg/Kg	<0.030	<0.039
tert-Butylbenzene	8260D	mg/Kg	<0.026	<0.034
Tetrachloroethene	8260D	mg/Kg	<0.039	<0.050
Toluene	8260D	mg/Kg	<0.021	<0.027
trans-1,2-Dichloroethene	8260D	mg/Kg	<0.044	<0.056
trans-1,3-Dichloropropene	8260D	mg/Kg	<0.063	<0.081
Trichloroethene	8260D	mg/Kg	<0.015	<0.019
Trichlorofluoromethane	8260D	mg/Kg	<0.044	<0.057
Vinyl chloride	8260D	mg/Kg	<0.047	<0.060
Xylenes, Total	8260D	mg/Kg	<0.023	<0.030
LCMS				
3-Perfluoroheptylpropanoic acid (7:3	1633A	ug/Kg	<0.22	<0.21
3-Perfluoropentylpropanoic acid (5:3	1633A	ug/Kg	<0.25	<0.24
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1633A	ug/Kg	<0.076	<0.074
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1633A	ug/Kg	<0.025	<0.025
4:2 FTS	1633A	ug/Kg	<0.065	<0.064
6:2 FTS	1633A	ug/Kg	0.50	0.40
8:2 FTS	1633A	ug/Kg	0.053 J	<0.043
F-53B Major	1633A	ug/Kg	<0.038	<0.038
F-53B Minor	1633A	ug/Kg	<0.076	<0.074
HFPO-DA (GenX)	1633A	ug/Kg	<0.029	<0.029
NEtFOSA	1633A	ug/Kg	<0.021	<0.021
NEtFOSAA	1633A	ug/Kg	<0.017	<0.017
NEtFOSE	1633A	ug/Kg	<0.078	<0.076
NMeFOSA	1633A	ug/Kg	<0.036	<0.036
NMeFOSAA	1633A	ug/Kg	<0.016	<0.016
NMeFOSE	1633A	ug/Kg	<0.089	<0.087
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1633A	ug/Kg	<0.062	<0.061
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1633A	ug/Kg	<0.038	<0.038
Perfluoro-3-methoxypropanoic acid (PFMPA)	1633A	ug/Kg	<0.022	0.023 J
Perfluoro-4-methoxybutanoic acid (PFMBA)	1633A	ug/Kg	<0.036	<0.036
Perfluorobutanesulfonic acid (PFBS)	1633A	ug/Kg	<0.025	<0.025
Perfluorobutanoic acid (PFBA)	1633A	ug/Kg	<0.032	<0.032
Perfluorodecanesulfonic acid (PFDS)	1633A	ug/Kg	<0.021	<0.021
Perfluorodecanoic acid (PFDA)	1633A	ug/Kg	<0.024	<0.024
Perfluorododecanesulfonic acid (PFDoS)	1633A	ug/Kg	<0.037	<0.037
Perfluorododecanoic acid (PFDoA)	1633A	ug/Kg	<0.027	<0.027
Perfluoroheptanesulfonic acid (PFHpS)	1633A	ug/Kg	<0.016	<0.016
Perfluoroheptanoic acid (PFHpA)	1633A	ug/Kg	<0.033	<0.033
Perfluorohexanesulfonic acid (PFHxS)	1633A	ug/Kg	<0.020	<0.020
Perfluorohexanoic acid (PFHxA)	1633A	ug/Kg	<0.040	<0.039
Perfluorononanesulfonic acid (PFNS)	1633A	ug/Kg	<0.023	<0.023
Perfluorononanoic acid (PFNA)	1633A	ug/Kg	<0.029	<0.029
Perfluorooctanesulfonamide (FOSA)	1633A	ug/Kg	<0.063	<0.062
Perfluorooctanesulfonic acid (PFOS)	1633A	ug/Kg	<0.025	0.029 J

Parameters	Method	Unit	WC-Bin 3A-022725 02/27/2025 500-264746-1	WC-Bin 3B-022725 02/27/2025 500-264746-2
Perfluorooctanoic acid (PFOA)	1633A	ug/Kg	<0.062	<0.061
Perfluoropentanesulfonic acid (PFPeS)	1633A	ug/Kg	<0.040	<0.039
Perfluoropentanoic acid (PFPeA)	1633A	ug/Kg	<0.049	<0.048
Perfluorotetradecanoic acid (PFTeA)	1633A	ug/Kg	<0.058	<0.057
Perfluorotridecanoic acid (PFTriA)	1633A	ug/Kg	<0.029	<0.029
Perfluoroundecanoic acid (PFUnA)	1633A	ug/Kg	<0.028	<0.028

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

TYCO - SOILS 415-005-001

JOB NUMBER

500-264746-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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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

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

Table of Contents

Job Narrative
500-264746-1

Receipt
The samples were received on 3/5/2025 10:40 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 1.2º C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 500-809232 contained Chloroform and Chloromethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-809232 was outside the method criteria for the following analyte(s): Chlorodibromomethane, 1,4-Dichlorobenzene, Ethylbenzene, Isopropylbenzene, m-Xylene & p-Xylene, o-Xylene, Tetrachloroethene and 1,3,5-Trimethylbenzene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 500-809393 was outside the method criteria for the following analyte(s): 1,4-Dichlorobenzene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Tetrachloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The method blank for analytical batch 500-809393 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.

Method 8260D: The laboratory control sample (LCS) for preparation batch 500-808924 and analytical batch 500-809393 recovered outside control limits for the following analytes: m-Xylene & p-Xylene and 1,2,4-Trimethylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
Method 5035: Vial received with less than 8g of sample. Weight recorded in prep batch. Proceeded with extraction per method. WC-Bin 3B-022725 (500-264746-2)

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

LCMS
Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: WC-Bin 3A-022725 (500-264746-1) and WC-Bin 3B-022725 (500-264746-2). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.The sample was re-analyzed with concurring results therefore the first set of data are reported.

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 415-005-001

Job ID: 500-264746-1

Client Sample ID: WC-Bin 3A-022725 — Lab Sample ID: 500-264746-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.15	J B	0.20	0.091	mg/Kg	50	☼	8260D	Total/NA
p-Isopropyltoluene	0.058	J	0.099	0.029	mg/Kg	50	☼	8260D	Total/NA
6:2 FTS - RA	0.50		0.40	0.054	ug/Kg	1	☼	1633A	Total/NA
8:2 FTS - RA	0.053	J	0.40	0.044	ug/Kg	1	☼	1633A	Total/NA

Client Sample ID: WC-Bin 3B-022725 — Lab Sample ID: 500-264746-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
6:2 FTS	0.40		0.39	0.053	ug/Kg	1	☼	1633A	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RA	0.029	J	0.20	0.025	ug/Kg	1	☼	1633A	Total/NA
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA	0.023	J	0.20	0.022	ug/Kg	1	☼	1633A	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
1633A	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
Moisture	Percent Moisture	EPA	EET CHI
1633 Shake	Shake Extraction with SPE	EPA	EET SAC
5030C	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, 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 415-005-001

Job ID: 500-264746-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-264746-1	WC-Bin 3A-022725	Solid	02/27/25 12:21	03/05/25 10:40
500-264746-2	WC-Bin 3B-022725	Solid	02/27/25 12:21	03/05/25 10:40

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

Client Sample ID: WC-Bin 3A-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-1
Matrix: Solid
Percent Solids: 49.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.012		0.025	0.012	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Bromobenzene	<0.059		0.099	0.059	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Bromochloromethane	<0.050		0.099	0.050	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Bromodichloromethane	<0.056		0.099	0.056	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Bromoform	<0.095		0.099	0.095	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Bromomethane	<0.18		0.30	0.18	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Carbon tetrachloride	<0.041		0.099	0.041	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Chlorobenzene	<0.041		0.099	0.041	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Chlorodibromomethane	<0.082		0.099	0.082	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Chloroethane	<0.047		0.50	0.047	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Chloroform	**0.15**	**J B**	0.20	0.091	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Chloromethane	<0.078		0.50	0.078	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
2-Chlorotoluene	<0.036		0.099	0.036	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
4-Chlorotoluene	<0.034		0.099	0.034	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
cis-1,2-Dichloroethene	<0.041		0.099	0.041	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
cis-1,3-Dichloropropene	<0.051		0.099	0.051	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,2-Dibromo-3-Chloropropane	<0.40		0.50	0.40	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,2-Dibromoethane (EDB)	<0.056		0.099	0.056	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Dibromomethane	<0.058		0.099	0.058	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,2-Dichlorobenzene	<0.047		0.099	0.047	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,3-Dichlorobenzene	<0.040		0.099	0.040	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,4-Dichlorobenzene	<0.045		0.099	0.045	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Dichlorodifluoromethane	<0.18		0.30	0.18	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,1-Dichloroethane	<0.036		0.099	0.036	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,2-Dichloroethane	<0.057		0.099	0.057	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,1-Dichloroethene	<0.048		0.099	0.048	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,2-Dichloropropane	<0.037		0.099	0.037	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,3-Dichloropropane	<0.056		0.099	0.056	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
2,2-Dichloropropane	<0.048		0.50	0.048	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,1-Dichloropropene	<0.033		0.099	0.033	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Ethylbenzene	<0.017		0.025	0.017	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Hexachlorobutadiene	<0.053		0.099	0.053	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Isopropylbenzene	<0.029		0.099	0.029	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Isopropyl ether	<0.038		0.099	0.038	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Methylene Chloride	<0.21		0.50	0.21	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Methyl tert-butyl ether	<0.043		0.099	0.043	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Naphthalene	<0.044		0.099	0.044	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
n-Butylbenzene	<0.032		0.099	0.032	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
N-Propylbenzene	<0.032		0.099	0.032	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
p-Isopropyltoluene	**0.058**	**J**	0.099	0.029	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
sec-Butylbenzene	<0.027		0.099	0.027	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Styrene	<0.030		0.099	0.030	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
tert-Butylbenzene	<0.026		0.099	0.026	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,1,1,2-Tetrachloroethane	<0.066		0.099	0.066	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,1,2,2-Tetrachloroethane	<0.064		0.099	0.064	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Tetrachloroethene	<0.039		0.099	0.039	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Toluene	<0.021		0.025	0.021	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
trans-1,2-Dichloroethene	<0.044		0.099	0.044	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
trans-1,3-Dichloropropene	<0.063		0.099	0.063	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

Client Sample ID: WC-Bin 3A-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-1
Matrix: Solid
Percent Solids: 49.7

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	<0.035		0.099	0.035	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,2,4-Trichlorobenzene	<0.031		0.099	0.031	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,1,1-Trichloroethane	<0.045		0.099	0.045	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,1,2-Trichloroethane	<0.072		0.099	0.072	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Trichloroethene	<0.015		0.050	0.015	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Trichlorofluoromethane	<0.044		0.099	0.044	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,2,3-Trichloropropane	<0.15		0.20	0.15	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,2,4-Trimethylbenzene	<0.030		0.099	0.030	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
1,3,5-Trimethylbenzene	<0.029		0.099	0.029	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Vinyl chloride	<0.047		0.099	0.047	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50
Xylenes, Total	<0.023		0.050	0.023	mg/Kg	☼	03/07/25 13:39	03/11/25 16:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*03/07/25 13:39*	*03/11/25 16:31*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 120*	*03/07/25 13:39*	*03/11/25 16:31*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*03/07/25 13:39*	*03/11/25 16:31*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*03/07/25 13:39*	*03/11/25 16:31*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
F-53B Minor	<0.076		0.20	0.076	ug/Kg	☼	03/07/25 09:25	03/08/25 16:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.021		0.20	0.021	ug/Kg	☼	03/07/25 09:25	03/08/25 16:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOS	*80.0*		*40 - 130*	*03/07/25 09:25*	*03/08/25 16:38*	*1*
13C3 HFPO-DA	*88.6*		*40 - 130*	*03/07/25 09:25*	*03/08/25 16:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.032		0.40	0.032	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluoropentanoic acid (PFPeA)	<0.049		0.20	0.049	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorohexanoic acid (PFHxA)	<0.040		0.20	0.040	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluoroheptanoic acid (PFHpA)	<0.033		0.20	0.033	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorooctanoic acid (PFOA)	<0.062		0.20	0.062	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorononanoic acid (PFNA)	<0.029		0.20	0.029	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorodecanoic acid (PFDA)	<0.024		0.20	0.024	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluoroundecanoic acid (PFUnA)	<0.028		0.20	0.028	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorododecanoic acid (PFDoA)	<0.027		0.20	0.027	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorotridecanoic acid (PFTriA)	<0.029		0.20	0.029	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorotetradecanoic acid (PFTeA)	<0.058		0.20	0.058	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorobutanesulfonic acid (PFBS)	<0.025		0.20	0.025	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluoropentanesulfonic acid (PFPeS)	<0.040		0.20	0.040	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorohexanesulfonic acid (PFHxS)	<0.020		0.20	0.020	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.016		0.20	0.016	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorooctanesulfonic acid (PFOS)	<0.025		0.20	0.025	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorononanesulfonic acid (PFNS)	<0.023		0.20	0.023	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.037		0.20	0.037	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
4:2 FTS	<0.065		0.40	0.065	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
6:2 FTS	**0.50**		0.40	0.054	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1

Client Sample ID: WC-Bin 3A-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-1
Matrix: Solid
Percent Solids: 49.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	0.053	J	0.40	0.044	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluorooctanesulfonamide (FOSA)	<0.063		0.20	0.063	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
NMeFOSA	<0.036		0.20	0.036	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
NEtFOSA	<0.021		0.20	0.021	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
NMeFOSAA	<0.016		0.20	0.016	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
NEtFOSAA	<0.017		0.20	0.017	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
NMeFOSE	<0.089		1.0	0.089	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
NEtFOSE	<0.078		1.0	0.078	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
HFPO-DA (GenX)	<0.029		0.20	0.029	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.025		0.20	0.025	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.036		0.20	0.036	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.062		0.20	0.062	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
F-53B Major	<0.038		0.20	0.038	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.038		0.20	0.038	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.076		0.40	0.076	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.25		1.0	0.25	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.22		1.0	0.22	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.022		0.20	0.022	ug/Kg	☼	03/07/25 09:25	03/09/25 19:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*78.1*		*8 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C5 PFPeA	*55.0*		*35 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C5 PFHxA	*86.0*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C4 PFHpA	*101*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C8 PFOA	*88.1*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C9 PFNA	*80.7*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C6 PFDA	*88.6*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C7 PFUnA	*81.7*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C2 PFDoA	*68.1*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C2 PFTeDA	*92.3*		*20 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C3 PFBS	*77.8*		*40 - 135*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C3 PFHxS	*84.9*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C8 PFOS	*90.3*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C8 FOSA	*83.5*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
d3-NMeFOSAA	*85.2*		*40 - 135*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
d5-NEtFOSAA	*85.1*		*40 - 150*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
M2-4:2 FTS	*190*	*5+	*40 - 165*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
M2-6:2 FTS	*190*		*40 - 215*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
M2-8:2 FTS	*141*		*40 - 275*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
13C3 HFPO-DA	*91.1*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
d7-N-MeFOSE-M	*44.9*		*20 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
d9-N-EtFOSE-M	*90.0*		*15 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
d5-NEtPFOSA	*70.9*		*10 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*
d3-NMePFOSA	*75.9*		*10 - 130*	*03/07/25 09:25*	*03/09/25 19:29*	*1*

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

Client Sample ID: WC-Bin 3B-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-2
Matrix: Solid
Percent Solids: 68.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.016		0.032	0.016	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Bromobenzene	<0.077		0.13	0.077	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Bromochloromethane	<0.064		0.13	0.064	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Bromodichloromethane	<0.073		0.13	0.073	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Bromoform	<0.12		0.13	0.12	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Bromomethane	<0.23		0.39	0.23	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Carbon tetrachloride	<0.053		0.13	0.053	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Chlorobenzene	<0.053		0.13	0.053	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Chloroethane	<0.060		0.64	0.060	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Chloroform	<0.12		0.26	0.12	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Chloromethane	<0.10		0.64	0.10	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
2-Chlorotoluene	<0.046		0.13	0.046	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
4-Chlorotoluene	<0.044		0.13	0.044	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
cis-1,2-Dichloroethene	<0.053		0.13	0.053	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
cis-1,3-Dichloropropene	<0.067		0.13	0.067	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Chlorodibromomethane	<0.11		0.13	0.11	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,2-Dibromo-3-Chloropropane	<0.52		0.64	0.52	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,2-Dibromoethane (EDB)	<0.072		0.13	0.072	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Dibromomethane	<0.075		0.13	0.075	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,2-Dichlorobenzene	<0.061		0.13	0.061	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,3-Dichlorobenzene	<0.052		0.13	0.052	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,4-Dichlorobenzene	<0.058		0.13	0.058	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Dichlorodifluoromethane	<0.23		0.39	0.23	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,1-Dichloroethane	<0.047		0.13	0.047	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,2-Dichloroethane	<0.074		0.13	0.074	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,1-Dichloroethene	<0.062		0.13	0.062	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,2-Dichloropropane	<0.048		0.13	0.048	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,3-Dichloropropane	<0.072		0.13	0.072	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
2,2-Dichloropropane	<0.062		0.64	0.062	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,1-Dichloropropene	<0.043		0.13	0.043	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Ethylbenzene	<0.022		0.032	0.022	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Hexachlorobutadiene	<0.069		0.13	0.069	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Isopropylbenzene	<0.037		0.13	0.037	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Isopropyl ether	<0.049		0.13	0.049	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Methylene Chloride	<0.28		0.64	0.28	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Methyl tert-butyl ether	<0.056		0.13	0.056	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Naphthalene	<0.057		0.13	0.057	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
n-Butylbenzene	<0.042		0.13	0.042	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
N-Propylbenzene	<0.041		0.13	0.041	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
p-Isopropyltoluene	<0.038		0.13	0.038	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
sec-Butylbenzene	<0.035		0.13	0.035	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Styrene	<0.039		0.13	0.039	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
tert-Butylbenzene	<0.034		0.13	0.034	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,1,1,2-Tetrachloroethane	<0.085		0.13	0.085	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,1,2,2-Tetrachloroethane	<0.083		0.13	0.083	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Tetrachloroethene	<0.050		0.13	0.050	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Toluene	<0.027		0.032	0.027	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
trans-1,2-Dichloroethene	<0.056		0.13	0.056	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
trans-1,3-Dichloropropene	<0.081		0.13	0.081	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

Client Sample ID: WC-Bin 3B-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-2
Matrix: Solid
Percent Solids: 68.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.045		0.13	0.045	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,2,4-Trichlorobenzene	<0.040		0.13	0.040	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,1,1-Trichloroethane	<0.058		0.13	0.058	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,1,2-Trichloroethane	<0.094		0.13	0.094	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Trichloroethene	<0.019		0.064	0.019	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Trichlorofluoromethane	<0.057		0.13	0.057	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,2,3-Trichloropropane	<0.19		0.26	0.19	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,2,4-Trimethylbenzene	<0.039	*+	0.13	0.039	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
1,3,5-Trimethylbenzene	<0.037		0.13	0.037	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Vinyl chloride	<0.060		0.13	0.060	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50
Xylenes, Total	<0.030		0.064	0.030	mg/Kg	☼	02/27/25 00:00	03/12/25 12:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*	*02/27/25 00:00*	*03/12/25 12:25*	*50*
Dibromofluoromethane (Surr)	*92*		*75 - 120*	*02/27/25 00:00*	*03/12/25 12:25*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*02/27/25 00:00*	*03/12/25 12:25*	*50*
Toluene-d8 (Surr)	*105*		*75 - 120*	*02/27/25 00:00*	*03/12/25 12:25*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	**0.40**		0.39	0.053	ug/Kg	☼	03/07/25 09:25	03/08/25 16:52	1
F-53B Minor	<0.074		0.20	0.074	ug/Kg	☼	03/07/25 09:25	03/08/25 16:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.021		0.20	0.021	ug/Kg	☼	03/07/25 09:25	03/08/25 16:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOS	*74.8*		*40 - 130*	*03/07/25 09:25*	*03/08/25 16:52*	*1*
M2-6:2 FTS	*163*		*40 - 215*	*03/07/25 09:25*	*03/08/25 16:52*	*1*
13C3 HFPO-DA	*75.6*		*40 - 130*	*03/07/25 09:25*	*03/08/25 16:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.032		0.39	0.032	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluoropentanoic acid (PFPeA)	<0.048		0.20	0.048	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorohexanoic acid (PFHxA)	<0.039		0.20	0.039	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluoroheptanoic acid (PFHpA)	<0.033		0.20	0.033	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorooctanoic acid (PFOA)	<0.061		0.20	0.061	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorononanoic acid (PFNA)	<0.029		0.20	0.029	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorodecanoic acid (PFDA)	<0.024		0.20	0.024	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluoroundecanoic acid (PFUnA)	<0.028		0.20	0.028	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorododecanoic acid (PFDoA)	<0.027		0.20	0.027	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorotridecanoic acid (PFTriA)	<0.029		0.20	0.029	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorotetradecanoic acid (PFTeA)	<0.057		0.20	0.057	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.025		0.20	0.025	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.039		0.20	0.039	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.020		0.20	0.020	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.016		0.20	0.016	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorooctanesulfonic acid (PFOS)	**0.029**	**J**	0.20	0.025	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorononanesulfonic acid (PFNS)	<0.023		0.20	0.023	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1

Client Sample ID: WC-Bin 3B-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-2
Matrix: Solid
Percent Solids: 68.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanesulfonic acid (PFDoS)	<0.037		0.20	0.037	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
4:2 FTS	<0.064		0.39	0.064	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
8:2 FTS	<0.043		0.39	0.043	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluorooctanesulfonamide (FOSA)	<0.062		0.20	0.062	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
NMeFOSA	<0.036		0.20	0.036	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
NEtFOSA	<0.021		0.20	0.021	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
NMeFOSAA	<0.016		0.20	0.016	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
NEtFOSAA	<0.017		0.20	0.017	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
NMeFOSE	<0.087		0.99	0.087	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
NEtFOSE	<0.076		0.99	0.076	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
HFPO-DA (GenX)	<0.029		0.20	0.029	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.025		0.20	0.025	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.036		0.20	0.036	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.061		0.20	0.061	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
F-53B Major	<0.038		0.20	0.038	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.038		0.20	0.038	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<0.074		0.39	0.074	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<0.24		0.99	0.24	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<0.21		0.99	0.21	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	**0.023**	**J**	0.20	0.022	ug/Kg	☼	03/07/25 09:25	03/09/25 19:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*45.1*		*8 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C5 PFPeA	*60.9*		*35 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C5 PFHxA	*85.6*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C4 PFHpA	*94.8*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C8 PFOA	*93.1*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C9 PFNA	*89.8*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C6 PFDA	*81.4*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C7 PFUnA	*79.8*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C2 PFDoA	*69.3*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C2 PFTeDA	*81.1*		*20 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C3 PFBS	*75.2*		*40 - 135*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C3 PFHxS	*88.6*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C8 PFOS	*85.8*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C8 FOSA	*93.2*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
d3-NMeFOSAA	*89.3*		*40 - 135*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
d5-NEtFOSAA	*80.2*		*40 - 150*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
M2-4:2 FTS	*168*	**5+*	*40 - 165*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
M2-8:2 FTS	*161*		*40 - 275*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
13C3 HFPO-DA	*109*		*40 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
d7-N-MeFOSE-M	*36.4*		*20 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*
d9-N-EtFOSE-M	*97.1*		*15 - 130*	*03/07/25 09:25*	*03/09/25 19:45*	*1*

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

Client Sample ID: WC-Bin 3B-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-2
Matrix: Solid
Percent Solids: 68.4

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	66.8		10 - 130	03/07/25 09:25	03/09/25 19:45	1
d3-NMePFOSA	90.9		10 - 130	03/07/25 09:25	03/09/25 19:45	1

Definitions/Glossary

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

Qualifiers

GC/MS VOA

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

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
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 415-005-001

Job ID: 500-264746-1

GC/MS VOA

Prep Batch: 808924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264746-2	WC-Bin 3B-022725	Total/NA	Solid	5035	
LB3 500-808924/3-A	Method Blank	Total/NA	Solid	5035	
LCS 500-808924/4-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 809116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264746-1	WC-Bin 3A-022725	Total/NA	Solid	5030C	

Analysis Batch: 809393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264746-1	WC-Bin 3A-022725	Total/NA	Solid	8260D	809116
MB 500-809393/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-808924/4-A	Lab Control Sample	Total/NA	Solid	8260D	808924
LCS 500-809393/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 809562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264746-2	WC-Bin 3B-022725	Total/NA	Solid	8260D	808924
LB3 500-808924/3-A	Method Blank	Total/NA	Solid	8260D	808924
MB 500-809562/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-809562/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-809562/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

LCMS

Prep Batch: 838256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264746-1 - RA	WC-Bin 3A-022725	Total/NA	Solid	1633 Shake	
500-264746-1	WC-Bin 3A-022725	Total/NA	Solid	1633 Shake	
500-264746-2 - RA	WC-Bin 3B-022725	Total/NA	Solid	1633 Shake	
500-264746-2	WC-Bin 3B-022725	Total/NA	Solid	1633 Shake	
MB 320-838256/1-A - RA	Method Blank	Total/NA	Solid	1633 Shake	
MB 320-838256/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 320-838256/3-A - RA	Lab Control Sample	Total/NA	Solid	1633 Shake	
LCS 320-838256/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LCSD 320-838256/4-A - RA	Lab Control Sample Dup	Total/NA	Solid	1633 Shake	
LCSD 320-838256/4-A	Lab Control Sample Dup	Total/NA	Solid	1633 Shake	
LLCS 320-838256/2-A - RA	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 320-838256/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 838497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264746-1	WC-Bin 3A-022725	Total/NA	Solid	1633A	838256
500-264746-2	WC-Bin 3B-022725	Total/NA	Solid	1633A	838256
MB 320-838256/1-A	Method Blank	Total/NA	Solid	1633A	838256
LCS 320-838256/3-A	Lab Control Sample	Total/NA	Solid	1633A	838256
LCSD 320-838256/4-A	Lab Control Sample Dup	Total/NA	Solid	1633A	838256
LLCS 320-838256/2-A	Lab Control Sample	Total/NA	Solid	1633A	838256

QC Association Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

LCMS

Analysis Batch: 838535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264746-1 - RA	WC-Bin 3A-022725	Total/NA	Solid	1633A	838256
500-264746-2 - RA	WC-Bin 3B-022725	Total/NA	Solid	1633A	838256
MB 320-838256/1-A - RA	Method Blank	Total/NA	Solid	1633A	838256
LCS 320-838256/3-A - RA	Lab Control Sample	Total/NA	Solid	1633A	838256
LCSD 320-838256/4-A - RA	Lab Control Sample Dup	Total/NA	Solid	1633A	838256
LLCS 320-838256/2-A - RA	Lab Control Sample	Total/NA	Solid	1633A	838256

General Chemistry

Analysis Batch: 808911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-264746-1	WC-Bin 3A-022725	Total/NA	Solid	Moisture	
500-264746-2	WC-Bin 3B-022725	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

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)
500-264746-1	WC-Bin 3A-022725	104	101	102	98
500-264746-2	WC-Bin 3B-022725	108	92	102	105
LB3 500-808924/3-A	Method Blank	108	92	104	103
LCS 500-808924/4-A	Lab Control Sample	106	107	104	97
LCS 500-809393/4	Lab Control Sample	103	103	96	97
LCS 500-809562/4	Lab Control Sample	104	97	104	103
LCSD 500-809562/5	Lab Control Sample Dup	104	99	105	103
MB 500-809393/7	Method Blank	104	107	113	95
MB 500-809562/7	Method Blank	112	95	106	104

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 500-808924/3-A
Matrix: Solid
Analysis Batch: 809562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 808924

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0061		0.013	0.0061	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Bromobenzene	<0.030		0.050	0.030	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Bromochloromethane	<0.025		0.050	0.025	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Bromodichloromethane	<0.028		0.050	0.028	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Bromoform	<0.048		0.050	0.048	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Bromomethane	<0.090		0.15	0.090	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Carbon tetrachloride	<0.021		0.050	0.021	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Chlorobenzene	<0.021		0.050	0.021	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Chloroethane	<0.024		0.25	0.024	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Chloroform	<0.046		0.10	0.046	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Chloromethane	<0.039		0.25	0.039	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
2-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
4-Chlorotoluene	<0.017		0.050	0.017	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Chlorodibromomethane	<0.041		0.050	0.041	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
cis-1,2-Dichloroethene	<0.021		0.050	0.021	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
cis-1,3-Dichloropropene	<0.026		0.050	0.026	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2-Dibromo-3-Chloropropane	<0.20		0.25	0.20	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2-Dibromoethane (EDB)	<0.028		0.050	0.028	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Dibromomethane	<0.029		0.050	0.029	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2-Dichlorobenzene	<0.024		0.050	0.024	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,4-Dichlorobenzene	<0.023		0.050	0.023	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Dichlorodifluoromethane	<0.088		0.15	0.088	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,1-Dichloroethane	<0.018		0.050	0.018	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2-Dichloroethane	<0.029		0.050	0.029	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,1-Dichloroethene	<0.024		0.050	0.024	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2-Dichloropropane	<0.019		0.050	0.019	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,3-Dichloropropane	<0.028		0.050	0.028	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
2,2-Dichloropropane	<0.024		0.25	0.024	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,1-Dichloropropene	<0.017		0.050	0.017	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Ethylbenzene	<0.0086		0.013	0.0086	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Hexachlorobutadiene	<0.027		0.050	0.027	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Isopropylbenzene	<0.015		0.050	0.015	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Isopropyl ether	<0.019		0.050	0.019	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Methylene Chloride	<0.11		0.25	0.11	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Methyl tert-butyl ether	<0.022		0.050	0.022	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Naphthalene	<0.022		0.050	0.022	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
n-Butylbenzene	<0.016		0.050	0.016	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
N-Propylbenzene	<0.016		0.050	0.016	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
p-Isopropyltoluene	<0.015		0.050	0.015	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
sec-Butylbenzene	<0.014		0.050	0.014	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Styrene	<0.015		0.050	0.015	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
tert-Butylbenzene	<0.013		0.050	0.013	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,1,1,2-Tetrachloroethane	<0.033		0.050	0.033	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,1,2,2-Tetrachloroethane	<0.032		0.050	0.032	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Toluene	<0.011		0.013	0.011	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
trans-1,2-Dichloroethene	<0.022		0.050	0.022	mg/Kg		03/06/25 13:40	03/12/25 11:38	50

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

Lab Sample ID: LB3 500-808924/3-A
Matrix: Solid
Analysis Batch: 809562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 808924

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.032		0.050	0.032	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2,3-Trichlorobenzene	<0.018		0.050	0.018	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2,4-Trichlorobenzene	<0.015		0.050	0.015	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,1,1-Trichloroethane	<0.023		0.050	0.023	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,1,2-Trichloroethane	<0.037		0.050	0.037	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Trichloroethene	<0.0074		0.025	0.0074	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Trichlorofluoromethane	<0.022		0.050	0.022	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2,3-Trichloropropane	<0.075		0.10	0.075	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,2,4-Trimethylbenzene	<0.015		0.050	0.015	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
1,3,5-Trimethylbenzene	<0.014		0.050	0.014	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Vinyl chloride	<0.023		0.050	0.023	mg/Kg		03/06/25 13:40	03/12/25 11:38	50
Xylenes, Total	<0.012		0.025	0.012	mg/Kg		03/06/25 13:40	03/12/25 11:38	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*	*03/06/25 13:40*	*03/12/25 11:38*	*50*
Dibromofluoromethane (Surr)	*92*		*75 - 120*	*03/06/25 13:40*	*03/12/25 11:38*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*	*03/06/25 13:40*	*03/12/25 11:38*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*03/06/25 13:40*	*03/12/25 11:38*	*50*

Lab Sample ID: LCS 500-808924/4-A
Matrix: Solid
Analysis Batch: 809393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.15		mg/Kg		86	70 - 120
Bromobenzene	2.50	2.21		mg/Kg		88	70 - 122
Bromochloromethane	2.50	2.25		mg/Kg		90	65 - 122
Bromodichloromethane	2.50	2.16		mg/Kg		86	69 - 120
Bromoform	2.50	1.93		mg/Kg		77	56 - 132
Bromomethane	2.50	2.28		mg/Kg		91	40 - 152
Carbon tetrachloride	2.50	1.85		mg/Kg		74	59 - 133
Chlorobenzene	2.50	2.14		mg/Kg		85	70 - 120
Chloroethane	2.50	2.07		mg/Kg		83	48 - 136
Chloroform	2.50	2.36		mg/Kg		95	70 - 120
Chloromethane	2.50	2.08		mg/Kg		83	56 - 152
2-Chlorotoluene	2.50	2.66		mg/Kg		107	70 - 125
4-Chlorotoluene	2.50	2.28		mg/Kg		91	68 - 124
Chlorodibromomethane	2.50	1.89		mg/Kg		76	68 - 125
cis-1,2-Dichloroethene	2.50	2.32		mg/Kg		93	70 - 125
cis-1,3-Dichloropropene	2.50	2.28		mg/Kg		91	64 - 127
1,2-Dibromo-3-Chloropropane	2.50	1.95		mg/Kg		78	56 - 123
1,2-Dibromoethane (EDB)	2.50	2.06		mg/Kg		82	70 - 125
Dibromomethane	2.50	2.34		mg/Kg		94	70 - 120
1,2-Dichlorobenzene	2.50	2.10		mg/Kg		84	70 - 125
1,3-Dichlorobenzene	2.50	2.10		mg/Kg		84	70 - 125
1,4-Dichlorobenzene	2.50	2.06		mg/Kg		83	70 - 120
Dichlorodifluoromethane	2.50	1.24		mg/Kg		50	40 - 159
1,1-Dichloroethane	2.50	2.48		mg/Kg		99	70 - 125

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

Lab Sample ID: LCS 500-808924/4-A
Matrix: Solid
Analysis Batch: 809393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 808924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	2.50	2.17		mg/Kg		87	68 - 127
1,1-Dichloroethene	2.50	2.36		mg/Kg		94	67 - 122
1,2-Dichloropropane	2.50	2.53		mg/Kg		101	67 - 130
1,3-Dichloropropane	2.50	2.24		mg/Kg		90	62 - 136
2,2-Dichloropropane	2.50	2.64		mg/Kg		106	58 - 139
1,1-Dichloropropene	2.50	2.37		mg/Kg		95	70 - 121
Ethylbenzene	2.50	2.34		mg/Kg		93	70 - 123
Hexachlorobutadiene	2.50	2.45		mg/Kg		98	51 - 150
Isopropylbenzene	2.50	2.32		mg/Kg		93	70 - 126
Methylene Chloride	2.50	2.09		mg/Kg		84	69 - 125
Methyl tert-butyl ether	2.50	2.67		mg/Kg		107	55 - 123
Naphthalene	2.50	1.89		mg/Kg		76	53 - 144
n-Butylbenzene	2.50	2.19		mg/Kg		88	68 - 125
N-Propylbenzene	2.50	2.79		mg/Kg		112	69 - 127
p-Isopropyltoluene	2.50	2.21		mg/Kg		89	70 - 125
sec-Butylbenzene	2.50	2.25		mg/Kg		90	70 - 123
Styrene	2.50	2.28		mg/Kg		91	70 - 120
tert-Butylbenzene	2.50	2.31		mg/Kg		92	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.10		mg/Kg		84	70 - 125
1,1,2,2-Tetrachloroethane	2.50	2.14		mg/Kg		86	62 - 140
Tetrachloroethene	2.50	2.13		mg/Kg		85	70 - 128
Toluene	2.50	2.47		mg/Kg		99	70 - 125
trans-1,2-Dichloroethene	2.50	2.20		mg/Kg		88	70 - 125
trans-1,3-Dichloropropene	2.50	2.28		mg/Kg		91	62 - 128
1,2,3-Trichlorobenzene	2.50	2.16		mg/Kg		86	51 - 145
1,2,4-Trichlorobenzene	2.50	2.15		mg/Kg		86	57 - 137
1,1,1-Trichloroethane	2.50	2.37		mg/Kg		95	70 - 125
1,1,2-Trichloroethane	2.50	2.02		mg/Kg		81	71 - 130
Trichloroethene	2.50	2.21		mg/Kg		88	70 - 125
Trichlorofluoromethane	2.50	2.04		mg/Kg		82	55 - 128
1,2,3-Trichloropropane	2.50	2.18		mg/Kg		87	50 - 133
1,2,4-Trimethylbenzene	2.50	4.77	*+	mg/Kg		191	70 - 123
1,3,5-Trimethylbenzene	2.50	3.05		mg/Kg		122	70 - 123
Vinyl chloride	2.50	2.13		mg/Kg		85	64 - 126
Xylenes, Total	5.00	5.74		mg/Kg		115	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*
Dibromofluoromethane (Surr)	*107*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 120*

Lab Sample ID: MB 500-809393/7
Matrix: Solid
Analysis Batch: 809393

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00012		0.00025	0.00012	mg/Kg			03/11/25 11:12	1

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

Lab Sample ID: MB 500-809393/7
Matrix: Solid
Analysis Batch: 809393

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.00060		0.0010	0.00060	mg/Kg			03/11/25 11:12	1
Bromochloromethane	<0.00050		0.0010	0.00050	mg/Kg			03/11/25 11:12	1
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			03/11/25 11:12	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			03/11/25 11:12	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			03/11/25 11:12	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			03/11/25 11:12	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			03/11/25 11:12	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			03/11/25 11:12	1
Chloroform	0.00153	J	0.0020	0.00092	mg/Kg			03/11/25 11:12	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			03/11/25 11:12	1
2-Chlorotoluene	<0.00036		0.0010	0.00036	mg/Kg			03/11/25 11:12	1
4-Chlorotoluene	<0.00034		0.0010	0.00034	mg/Kg			03/11/25 11:12	1
Chlorodibromomethane	<0.00083		0.0010	0.00083	mg/Kg			03/11/25 11:12	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			03/11/25 11:12	1
cis-1,3-Dichloropropene	<0.00052		0.0010	0.00052	mg/Kg			03/11/25 11:12	1
1,2-Dibromo-3-Chloropropane	<0.0041		0.0050	0.0041	mg/Kg			03/11/25 11:12	1
1,2-Dibromoethane (EDB)	<0.00056		0.0010	0.00056	mg/Kg			03/11/25 11:12	1
Dibromomethane	<0.00058		0.0010	0.00058	mg/Kg			03/11/25 11:12	1
1,2-Dichlorobenzene	<0.00048		0.0010	0.00048	mg/Kg			03/11/25 11:12	1
1,3-Dichlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			03/11/25 11:12	1
1,4-Dichlorobenzene	<0.00045		0.0010	0.00045	mg/Kg			03/11/25 11:12	1
Dichlorodifluoromethane	<0.0018		0.0030	0.0018	mg/Kg			03/11/25 11:12	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			03/11/25 11:12	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			03/11/25 11:12	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			03/11/25 11:12	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			03/11/25 11:12	1
1,3-Dichloropropane	<0.00056		0.0010	0.00056	mg/Kg			03/11/25 11:12	1
2,2-Dichloropropane	<0.00048		0.0050	0.00048	mg/Kg			03/11/25 11:12	1
1,1-Dichloropropene	<0.00033		0.0010	0.00033	mg/Kg			03/11/25 11:12	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			03/11/25 11:12	1
Hexachlorobutadiene	<0.00054		0.0010	0.00054	mg/Kg			03/11/25 11:12	1
Isopropylbenzene	<0.00029		0.0010	0.00029	mg/Kg			03/11/25 11:12	1
Isopropyl ether	<0.00038		0.0010	0.00038	mg/Kg			03/11/25 11:12	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			03/11/25 11:12	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			03/11/25 11:12	1
Naphthalene	<0.00044		0.0010	0.00044	mg/Kg			03/11/25 11:12	1
n-Butylbenzene	<0.00033		0.0010	0.00033	mg/Kg			03/11/25 11:12	1
N-Propylbenzene	<0.00032		0.0010	0.00032	mg/Kg			03/11/25 11:12	1
p-Isopropyltoluene	<0.00029		0.0010	0.00029	mg/Kg			03/11/25 11:12	1
sec-Butylbenzene	<0.00027		0.0010	0.00027	mg/Kg			03/11/25 11:12	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			03/11/25 11:12	1
tert-Butylbenzene	<0.00026		0.0010	0.00026	mg/Kg			03/11/25 11:12	1
1,1,1,2-Tetrachloroethane	<0.00067		0.0010	0.00067	mg/Kg			03/11/25 11:12	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			03/11/25 11:12	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			03/11/25 11:12	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			03/11/25 11:12	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			03/11/25 11:12	1
trans-1,3-Dichloropropene	<0.00063		0.0010	0.00063	mg/Kg			03/11/25 11:12	1
1,2,3-Trichlorobenzene	<0.00035		0.0010	0.00035	mg/Kg			03/11/25 11:12	1

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

Lab Sample ID: MB 500-809393/7
Matrix: Solid
Analysis Batch: 809393

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.00031		0.0010	0.00031	mg/Kg			03/11/25 11:12	1
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			03/11/25 11:12	1
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			03/11/25 11:12	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			03/11/25 11:12	1
Trichlorofluoromethane	<0.00044		0.0010	0.00044	mg/Kg			03/11/25 11:12	1
1,2,3-Trichloropropane	<0.0015		0.0020	0.0015	mg/Kg			03/11/25 11:12	1
1,2,4-Trimethylbenzene	<0.00030		0.0010	0.00030	mg/Kg			03/11/25 11:12	1
1,3,5-Trimethylbenzene	<0.00029		0.0010	0.00029	mg/Kg			03/11/25 11:12	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			03/11/25 11:12	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			03/11/25 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*		*03/11/25 11:12*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 120*		*03/11/25 11:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*		*03/11/25 11:12*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*03/11/25 11:12*	*1*

Lab Sample ID: LCS 500-809393/4
Matrix: Solid
Analysis Batch: 809393

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	0.0452		mg/Kg		90	70 - 120
Bromobenzene	0.0500	0.0420		mg/Kg		84	70 - 122
Bromochloromethane	0.0500	0.0429		mg/Kg		86	65 - 122
Bromodichloromethane	0.0500	0.0430		mg/Kg		86	69 - 120
Bromoform	0.0500	0.0398		mg/Kg		80	56 - 132
Bromomethane	0.0500	0.0627		mg/Kg		125	40 - 152
Carbon tetrachloride	0.0500	0.0490		mg/Kg		98	59 - 133
Chlorobenzene	0.0500	0.0427		mg/Kg		85	70 - 120
Chloroethane	0.0500	0.0557		mg/Kg		111	48 - 136
Chloroform	0.0500	0.0451		mg/Kg		90	70 - 120
Chloromethane	0.0500	0.0518		mg/Kg		104	56 - 152
2-Chlorotoluene	0.0500	0.0446		mg/Kg		89	70 - 125
4-Chlorotoluene	0.0500	0.0443		mg/Kg		89	68 - 124
Chlorodibromomethane	0.0500	0.0395		mg/Kg		79	68 - 125
cis-1,2-Dichloroethene	0.0500	0.0458		mg/Kg		92	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0458		mg/Kg		92	64 - 127
1,2-Dibromo-3-Chloropropane	0.0500	0.0408		mg/Kg		82	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0409		mg/Kg		82	70 - 125
Dibromomethane	0.0500	0.0444		mg/Kg		89	70 - 120
1,2-Dichlorobenzene	0.0500	0.0416		mg/Kg		83	70 - 125
1,3-Dichlorobenzene	0.0500	0.0423		mg/Kg		85	70 - 125
1,4-Dichlorobenzene	0.0500	0.0416		mg/Kg		83	70 - 120
Dichlorodifluoromethane	0.0500	0.0620		mg/Kg		124	40 - 159
1,1-Dichloroethane	0.0500	0.0511		mg/Kg		102	70 - 125
1,2-Dichloroethane	0.0500	0.0438		mg/Kg		88	68 - 127
1,1-Dichloroethene	0.0500	0.0506		mg/Kg		101	67 - 122

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

Lab Sample ID: LCS 500-809393/4
Matrix: Solid
Analysis Batch: 809393

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	0.0488		mg/Kg		98	67 - 130
1,3-Dichloropropane	0.0500	0.0436		mg/Kg		87	62 - 136
2,2-Dichloropropane	0.0500	0.0534		mg/Kg		107	58 - 139
1,1-Dichloropropene	0.0500	0.0512		mg/Kg		102	70 - 121
Ethylbenzene	0.0500	0.0418		mg/Kg		84	70 - 123
Hexachlorobutadiene	0.0500	0.0521		mg/Kg		104	51 - 150
Isopropylbenzene	0.0500	0.0446		mg/Kg		89	70 - 126
Methylene Chloride	0.0500	0.0452		mg/Kg		90	69 - 125
Methyl tert-butyl ether	0.0500	0.0506		mg/Kg		101	55 - 123
Naphthalene	0.0500	0.0396		mg/Kg		79	53 - 144
n-Butylbenzene	0.0500	0.0476		mg/Kg		95	68 - 125
N-Propylbenzene	0.0500	0.0463		mg/Kg		93	69 - 127
p-Isopropyltoluene	0.0500	0.0449		mg/Kg		90	70 - 125
sec-Butylbenzene	0.0500	0.0459		mg/Kg		92	70 - 123
Styrene	0.0500	0.0449		mg/Kg		90	70 - 120
tert-Butylbenzene	0.0500	0.0455		mg/Kg		91	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0422		mg/Kg		84	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0405		mg/Kg		81	62 - 140
Tetrachloroethene	0.0500	0.0437		mg/Kg		87	70 - 128
Toluene	0.0500	0.0453		mg/Kg		91	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0475		mg/Kg		95	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0452		mg/Kg		90	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0463		mg/Kg		93	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0474		mg/Kg		95	57 - 137
1,1,1-Trichloroethane	0.0500	0.0472		mg/Kg		94	70 - 125
1,1,2-Trichloroethane	0.0500	0.0391		mg/Kg		78	71 - 130
Trichloroethene	0.0500	0.0452		mg/Kg		90	70 - 125
Trichlorofluoromethane	0.0500	0.0503		mg/Kg		101	55 - 128
1,2,3-Trichloropropane	0.0500	0.0399		mg/Kg		80	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0432		mg/Kg		86	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0440		mg/Kg		88	70 - 123
Vinyl chloride	0.0500	0.0534		mg/Kg		107	64 - 126
Xylenes, Total	0.100	0.0828		mg/Kg		83	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 120*

Lab Sample ID: MB 500-809562/7
Matrix: Solid
Analysis Batch: 809562

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00012		0.00025	0.00012	mg/Kg			03/12/25 11:14	1
Bromobenzene	<0.00060		0.0010	0.00060	mg/Kg			03/12/25 11:14	1
Bromochloromethane	<0.00050		0.0010	0.00050	mg/Kg			03/12/25 11:14	1

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

Lab Sample ID: MB 500-809562/7
Matrix: Solid
Analysis Batch: 809562

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.00057		0.0010	0.00057	mg/Kg			03/12/25 11:14	1
Bromoform	<0.00096		0.0010	0.00096	mg/Kg			03/12/25 11:14	1
Bromomethane	<0.0018		0.0030	0.0018	mg/Kg			03/12/25 11:14	1
Carbon tetrachloride	<0.00041		0.0010	0.00041	mg/Kg			03/12/25 11:14	1
Chlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			03/12/25 11:14	1
Chloroethane	<0.00047		0.0050	0.00047	mg/Kg			03/12/25 11:14	1
Chloroform	<0.00092		0.0020	0.00092	mg/Kg			03/12/25 11:14	1
Chloromethane	<0.00079		0.0050	0.00079	mg/Kg			03/12/25 11:14	1
2-Chlorotoluene	<0.00036		0.0010	0.00036	mg/Kg			03/12/25 11:14	1
4-Chlorotoluene	<0.00034		0.0010	0.00034	mg/Kg			03/12/25 11:14	1
Chlorodibromomethane	<0.00083		0.0010	0.00083	mg/Kg			03/12/25 11:14	1
cis-1,2-Dichloroethene	<0.00042		0.0010	0.00042	mg/Kg			03/12/25 11:14	1
cis-1,3-Dichloropropene	<0.00052		0.0010	0.00052	mg/Kg			03/12/25 11:14	1
1,2-Dibromo-3-Chloropropane	<0.0041		0.0050	0.0041	mg/Kg			03/12/25 11:14	1
1,2-Dibromoethane (EDB)	<0.00056		0.0010	0.00056	mg/Kg			03/12/25 11:14	1
Dibromomethane	<0.00058		0.0010	0.00058	mg/Kg			03/12/25 11:14	1
1,2-Dichlorobenzene	<0.00048		0.0010	0.00048	mg/Kg			03/12/25 11:14	1
1,3-Dichlorobenzene	<0.00041		0.0010	0.00041	mg/Kg			03/12/25 11:14	1
1,4-Dichlorobenzene	<0.00045		0.0010	0.00045	mg/Kg			03/12/25 11:14	1
Dichlorodifluoromethane	<0.0018		0.0030	0.0018	mg/Kg			03/12/25 11:14	1
1,1-Dichloroethane	<0.00036		0.0010	0.00036	mg/Kg			03/12/25 11:14	1
1,2-Dichloroethane	<0.00058		0.0010	0.00058	mg/Kg			03/12/25 11:14	1
1,1-Dichloroethene	<0.00048		0.0010	0.00048	mg/Kg			03/12/25 11:14	1
1,2-Dichloropropane	<0.00037		0.0010	0.00037	mg/Kg			03/12/25 11:14	1
1,3-Dichloropropane	<0.00056		0.0010	0.00056	mg/Kg			03/12/25 11:14	1
2,2-Dichloropropane	<0.00048		0.0050	0.00048	mg/Kg			03/12/25 11:14	1
1,1-Dichloropropene	<0.00033		0.0010	0.00033	mg/Kg			03/12/25 11:14	1
Ethylbenzene	<0.00017		0.00025	0.00017	mg/Kg			03/12/25 11:14	1
Hexachlorobutadiene	<0.00054		0.0010	0.00054	mg/Kg			03/12/25 11:14	1
Isopropylbenzene	<0.00029		0.0010	0.00029	mg/Kg			03/12/25 11:14	1
Isopropyl ether	<0.00038		0.0010	0.00038	mg/Kg			03/12/25 11:14	1
Methylene Chloride	<0.0021		0.0050	0.0021	mg/Kg			03/12/25 11:14	1
Methyl tert-butyl ether	<0.00043		0.0010	0.00043	mg/Kg			03/12/25 11:14	1
Naphthalene	<0.00044		0.0010	0.00044	mg/Kg			03/12/25 11:14	1
n-Butylbenzene	<0.00033		0.0010	0.00033	mg/Kg			03/12/25 11:14	1
N-Propylbenzene	<0.00032		0.0010	0.00032	mg/Kg			03/12/25 11:14	1
p-Isopropyltoluene	<0.00029		0.0010	0.00029	mg/Kg			03/12/25 11:14	1
sec-Butylbenzene	<0.00027		0.0010	0.00027	mg/Kg			03/12/25 11:14	1
Styrene	<0.00031		0.0010	0.00031	mg/Kg			03/12/25 11:14	1
tert-Butylbenzene	<0.00026		0.0010	0.00026	mg/Kg			03/12/25 11:14	1
1,1,1,2-Tetrachloroethane	<0.00067		0.0010	0.00067	mg/Kg			03/12/25 11:14	1
1,1,2,2-Tetrachloroethane	<0.00065		0.0010	0.00065	mg/Kg			03/12/25 11:14	1
Tetrachloroethene	<0.00039		0.0010	0.00039	mg/Kg			03/12/25 11:14	1
Toluene	<0.00021		0.00025	0.00021	mg/Kg			03/12/25 11:14	1
trans-1,2-Dichloroethene	<0.00044		0.0010	0.00044	mg/Kg			03/12/25 11:14	1
trans-1,3-Dichloropropene	<0.00063		0.0010	0.00063	mg/Kg			03/12/25 11:14	1
1,2,3-Trichlorobenzene	<0.00035		0.0010	0.00035	mg/Kg			03/12/25 11:14	1
1,2,4-Trichlorobenzene	<0.00031		0.0010	0.00031	mg/Kg			03/12/25 11:14	1
1,1,1-Trichloroethane	<0.00045		0.0010	0.00045	mg/Kg			03/12/25 11:14	1

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

Lab Sample ID: MB 500-809562/7
Matrix: Solid
Analysis Batch: 809562

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.00073		0.0010	0.00073	mg/Kg			03/12/25 11:14	1
Trichloroethene	<0.00015		0.00050	0.00015	mg/Kg			03/12/25 11:14	1
Trichlorofluoromethane	<0.00044		0.0010	0.00044	mg/Kg			03/12/25 11:14	1
1,2,3-Trichloropropane	<0.0015		0.0020	0.0015	mg/Kg			03/12/25 11:14	1
1,2,4-Trimethylbenzene	<0.00030		0.0010	0.00030	mg/Kg			03/12/25 11:14	1
1,3,5-Trimethylbenzene	<0.00029		0.0010	0.00029	mg/Kg			03/12/25 11:14	1
Vinyl chloride	<0.00047		0.0010	0.00047	mg/Kg			03/12/25 11:14	1
Xylenes, Total	<0.00024		0.00050	0.00024	mg/Kg			03/12/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*		*03/12/25 11:14*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*03/12/25 11:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*03/12/25 11:14*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/12/25 11:14*	*1*

Lab Sample ID: LCS 500-809562/4
Matrix: Solid
Analysis Batch: 809562

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	0.0469		mg/Kg		94	70 - 120
Bromobenzene	0.0500	0.0485		mg/Kg		97	70 - 122
Bromochloromethane	0.0500	0.0456		mg/Kg		91	65 - 122
Bromodichloromethane	0.0500	0.0492		mg/Kg		98	69 - 120
Bromoform	0.0500	0.0451		mg/Kg		90	56 - 132
Bromomethane	0.0500	0.0411		mg/Kg		82	40 - 152
Carbon tetrachloride	0.0500	0.0380		mg/Kg		76	59 - 133
Chlorobenzene	0.0500	0.0496		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0451		mg/Kg		90	48 - 136
Chloroform	0.0500	0.0486		mg/Kg		97	70 - 120
Chloromethane	0.0500	0.0453		mg/Kg		91	56 - 152
2-Chlorotoluene	0.0500	0.0479		mg/Kg		96	70 - 125
4-Chlorotoluene	0.0500	0.0489		mg/Kg		98	68 - 124
Chlorodibromomethane	0.0500	0.0474		mg/Kg		95	68 - 125
cis-1,2-Dichloroethene	0.0500	0.0473		mg/Kg		95	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0548		mg/Kg		110	64 - 127
1,2-Dibromo-3-Chloropropane	0.0500	0.0468		mg/Kg		94	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0505		mg/Kg		101	70 - 125
Dibromomethane	0.0500	0.0494		mg/Kg		99	70 - 120
1,2-Dichlorobenzene	0.0500	0.0497		mg/Kg		99	70 - 125
1,3-Dichlorobenzene	0.0500	0.0489		mg/Kg		98	70 - 125
1,4-Dichlorobenzene	0.0500	0.0487		mg/Kg		97	70 - 120
Dichlorodifluoromethane	0.0500	0.0393		mg/Kg		79	40 - 159
1,1-Dichloroethane	0.0500	0.0479		mg/Kg		96	70 - 125
1,2-Dichloroethane	0.0500	0.0512		mg/Kg		102	68 - 127
1,1-Dichloroethene	0.0500	0.0350		mg/Kg		70	67 - 122
1,2-Dichloropropane	0.0500	0.0521		mg/Kg		104	67 - 130
1,3-Dichloropropane	0.0500	0.0539		mg/Kg		108	62 - 136

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

Lab Sample ID: LCS 500-809562/4
Matrix: Solid
Analysis Batch: 809562

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	0.0500	0.0448		mg/Kg		90	58 - 139
1,1-Dichloropropene	0.0500	0.0430		mg/Kg		86	70 - 121
Ethylbenzene	0.0500	0.0470		mg/Kg		94	70 - 123
Hexachlorobutadiene	0.0500	0.0471		mg/Kg		94	51 - 150
Isopropylbenzene	0.0500	0.0462		mg/Kg		92	70 - 126
Methylene Chloride	0.0500	0.0438		mg/Kg		88	69 - 125
Methyl tert-butyl ether	0.0500	0.0475		mg/Kg		95	55 - 123
Naphthalene	0.0500	0.0443		mg/Kg		89	53 - 144
n-Butylbenzene	0.0500	0.0473		mg/Kg		95	68 - 125
N-Propylbenzene	0.0500	0.0470		mg/Kg		94	69 - 127
p-Isopropyltoluene	0.0500	0.0454		mg/Kg		91	70 - 125
sec-Butylbenzene	0.0500	0.0456		mg/Kg		91	70 - 123
Styrene	0.0500	0.0490		mg/Kg		98	70 - 120
tert-Butylbenzene	0.0500	0.0433		mg/Kg		87	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0489		mg/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0511		mg/Kg		102	62 - 140
Tetrachloroethene	0.0500	0.0396		mg/Kg		79	70 - 128
Toluene	0.0500	0.0462		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0426		mg/Kg		85	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0542		mg/Kg		108	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0501		mg/Kg		100	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0489		mg/Kg		98	57 - 137
1,1,1-Trichloroethane	0.0500	0.0411		mg/Kg		82	70 - 125
1,1,2-Trichloroethane	0.0500	0.0523		mg/Kg		105	71 - 130
Trichloroethene	0.0500	0.0417		mg/Kg		83	70 - 125
Trichlorofluoromethane	0.0500	0.0366		mg/Kg		73	55 - 128
1,2,3-Trichloropropane	0.0500	0.0482		mg/Kg		96	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0483		mg/Kg		97	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0471		mg/Kg		94	70 - 123
Vinyl chloride	0.0500	0.0431		mg/Kg		86	64 - 126
Xylenes, Total	0.100	0.0895		mg/Kg		90	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: LCSD 500-809562/5
Matrix: Solid
Analysis Batch: 809562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.0480		mg/Kg		96	70 - 120	2	30
Bromobenzene	0.0500	0.0485		mg/Kg		97	70 - 122	0	30
Bromochloromethane	0.0500	0.0469		mg/Kg		94	65 - 122	3	30
Bromodichloromethane	0.0500	0.0491		mg/Kg		98	69 - 120	0	30
Bromoform	0.0500	0.0442		mg/Kg		88	56 - 132	2	30

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

Lab Sample ID: LCSD 500-809562/5
Matrix: Solid
Analysis Batch: 809562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	0.0500	0.0451		mg/Kg		90	40 - 152	9	30
Carbon tetrachloride	0.0500	0.0416		mg/Kg		83	59 - 133	9	30
Chlorobenzene	0.0500	0.0496		mg/Kg		99	70 - 120	0	30
Chloroethane	0.0500	0.0484		mg/Kg		97	48 - 136	7	30
Chloroform	0.0500	0.0492		mg/Kg		98	70 - 120	1	30
Chloromethane	0.0500	0.0492		mg/Kg		98	56 - 152	8	30
2-Chlorotoluene	0.0500	0.0477		mg/Kg		95	70 - 125	1	30
4-Chlorotoluene	0.0500	0.0486		mg/Kg		97	68 - 124	1	30
Chlorodibromomethane	0.0500	0.0472		mg/Kg		94	68 - 125	1	30
cis-1,2-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 125	0	30
cis-1,3-Dichloropropene	0.0500	0.0545		mg/Kg		109	64 - 127	1	30
1,2-Dibromo-3-Chloropropane	0.0500	0.0453		mg/Kg		91	56 - 123	3	30
1,2-Dibromoethane (EDB)	0.0500	0.0496		mg/Kg		99	70 - 125	2	30
Dibromomethane	0.0500	0.0495		mg/Kg		99	70 - 120	0	30
1,2-Dichlorobenzene	0.0500	0.0489		mg/Kg		98	70 - 125	2	30
1,3-Dichlorobenzene	0.0500	0.0485		mg/Kg		97	70 - 125	1	30
1,4-Dichlorobenzene	0.0500	0.0482		mg/Kg		96	70 - 120	1	30
Dichlorodifluoromethane	0.0500	0.0470		mg/Kg		94	40 - 159	18	30
1,1-Dichloroethane	0.0500	0.0488		mg/Kg		98	70 - 125	2	30
1,2-Dichloroethane	0.0500	0.0508		mg/Kg		102	68 - 127	1	30
1,1-Dichloroethene	0.0500	0.0392		mg/Kg		78	67 - 122	11	30
1,2-Dichloropropane	0.0500	0.0523		mg/Kg		105	67 - 130	0	30
1,3-Dichloropropane	0.0500	0.0544		mg/Kg		109	62 - 136	1	30
2,2-Dichloropropane	0.0500	0.0474		mg/Kg		95	58 - 139	6	30
1,1-Dichloropropene	0.0500	0.0462		mg/Kg		92	70 - 121	7	30
Ethylbenzene	0.0500	0.0478		mg/Kg		96	70 - 123	2	30
Hexachlorobutadiene	0.0500	0.0501		mg/Kg		100	51 - 150	6	30
Isopropylbenzene	0.0500	0.0477		mg/Kg		95	70 - 126	3	30
Methylene Chloride	0.0500	0.0436		mg/Kg		87	69 - 125	0	30
Methyl tert-butyl ether	0.0500	0.0479		mg/Kg		96	55 - 123	1	30
Naphthalene	0.0500	0.0429		mg/Kg		86	53 - 144	3	30
n-Butylbenzene	0.0500	0.0486		mg/Kg		97	68 - 125	3	30
N-Propylbenzene	0.0500	0.0478		mg/Kg		96	69 - 127	2	30
p-Isopropyltoluene	0.0500	0.0469		mg/Kg		94	70 - 125	3	30
sec-Butylbenzene	0.0500	0.0475		mg/Kg		95	70 - 123	4	30
Styrene	0.0500	0.0487		mg/Kg		97	70 - 120	1	30
tert-Butylbenzene	0.0500	0.0458		mg/Kg		92	70 - 121	6	30
1,1,1,2-Tetrachloroethane	0.0500	0.0483		mg/Kg		97	70 - 125	1	30
1,1,2,2-Tetrachloroethane	0.0500	0.0507		mg/Kg		101	62 - 140	1	30
Tetrachloroethene	0.0500	0.0430		mg/Kg		86	70 - 128	8	30
Toluene	0.0500	0.0468		mg/Kg		94	70 - 125	1	30
trans-1,2-Dichloroethene	0.0500	0.0448		mg/Kg		90	70 - 125	5	30
trans-1,3-Dichloropropene	0.0500	0.0539		mg/Kg		108	62 - 128	1	30
1,2,3-Trichlorobenzene	0.0500	0.0500		mg/Kg		100	51 - 145	0	30
1,2,4-Trichlorobenzene	0.0500	0.0484		mg/Kg		97	57 - 137	1	30
1,1,1-Trichloroethane	0.0500	0.0441		mg/Kg		88	70 - 125	7	30
1,1,2-Trichloroethane	0.0500	0.0526		mg/Kg		105	71 - 130	0	30
Trichloroethene	0.0500	0.0443		mg/Kg		89	70 - 125	6	30
Trichlorofluoromethane	0.0500	0.0445		mg/Kg		89	55 - 128	20	30

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

Lab Sample ID: LCSD 500-809562/5
Matrix: Solid
Analysis Batch: 809562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3-Trichloropropane			0.0500	0.0490		mg/Kg		98	50 - 133	2	30
1,2,4-Trimethylbenzene			0.0500	0.0486		mg/Kg		97	70 - 123	1	30
1,3,5-Trimethylbenzene			0.0500	0.0476		mg/Kg		95	70 - 123	1	30
Vinyl chloride			0.0500	0.0457		mg/Kg		91	64 - 126	6	30
Xylenes, Total			0.100	0.0915		mg/Kg		91	70 - 125	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*
Toluene-d8 (Surr)	*103*		*75 - 120*

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

Lab Sample ID: MB 320-838256/1-A
Matrix: Solid
Analysis Batch: 838497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 838256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
F-53B Minor	<0.075		0.20	0.075	ug/Kg		03/07/25 09:25	03/08/25 15:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.021		0.20	0.021	ug/Kg		03/07/25 09:25	03/08/25 15:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOS	*82.1*		*40 - 130*	*03/07/25 09:25*	*03/08/25 15:28*	*1*
13C3 HFPO-DA	*122*		*40 - 130*	*03/07/25 09:25*	*03/08/25 15:28*	*1*

Lab Sample ID: LCS 320-838256/3-A
Matrix: Solid
Analysis Batch: 838497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 838256

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
F-53B Minor			2.36	2.12		ug/Kg		90	45 - 160
Perfluorodecanesulfonic acid (PFDS)			2.41	2.53		ug/Kg		105	40 - 155

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOS	*92.3*		*40 - 130*
13C3 HFPO-DA	*102*		*40 - 130*

Lab Sample ID: LCSD 320-838256/4-A
Matrix: Solid
Analysis Batch: 838497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 838256

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
F-53B Minor			2.36	1.96		ug/Kg		83	45 - 160	8	30
Perfluorodecanesulfonic acid (PFDS)			2.41	2.29		ug/Kg		95	40 - 155	10	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 PFOS	*81.7*		*40 - 130*

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

Lab Sample ID: LCSD 320-838256/4-A
Matrix: Solid
Analysis Batch: 838497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 838256

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C3 HFPO-DA	*86.0*		*40 - 130*

Lab Sample ID: LLCS 320-838256/2-A
Matrix: Solid
Analysis Batch: 838497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 838256

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
F-53B Minor			0.378	0.336		ug/Kg		89	45 - 160		
Perfluorodecanesulfonic acid (PFDS)			0.386	0.374		ug/Kg		97	40 - 155		

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C8 PFOS	*76.2*		*40 - 130*
13C3 HFPO-DA	*96.3*		*40 - 130*

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

Lab Sample ID: MB 320-838256/1-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 838256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA) - RA	<0.032		0.40	0.032	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluoropentanoic acid (PFPeA) - RA	<0.049		0.20	0.049	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorohexanoic acid (PFHxA) - RA	<0.040		0.20	0.040	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluoroheptanoic acid (PFHpA) - RA	<0.033		0.20	0.033	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorooctanoic acid (PFOA) - RA	<0.062		0.20	0.062	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorononanoic acid (PFNA) - RA	<0.029		0.20	0.029	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorodecanoic acid (PFDA) - RA	<0.024		0.20	0.024	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluoroundecanoic acid (PFUnA) - RA	<0.028		0.20	0.028	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorododecanoic acid (PFDoA) - RA	<0.027		0.20	0.027	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorotridecanoic acid (PFTriA) - RA	<0.029		0.20	0.029	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorotetradecanoic acid (PFTeA) - RA	<0.058		0.20	0.058	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorobutanesulfonic acid (PFBS) - RA	<0.025		0.20	0.025	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluoropentanesulfonic acid (PFPeS) - RA	<0.040		0.20	0.040	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorohexanesulfonic acid (PFHxS) - RA	<0.020		0.20	0.020	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluoroheptanesulfonic acid (PFHpS) - RA	<0.016		0.20	0.016	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorooctanesulfonic acid (PFOS) - RA	<0.025		0.20	0.025	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorononanesulfonic acid (PFNS) - RA	<0.023		0.20	0.023	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorododecanesulfonic acid (PFDoS) - RA	<0.037		0.20	0.037	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
4:2 FTS - RA	<0.065		0.40	0.065	ug/Kg		03/07/25 09:25	03/09/25 18:07	1

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

Lab Sample ID: MB 320-838256/1-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 838256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS - RA	<0.054		0.40	0.054	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
8:2 FTS - RA	<0.044		0.40	0.044	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluorooctanesulfonamide (FOSA) - RA	<0.063		0.20	0.063	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
NMeFOSA - RA	<0.036		0.20	0.036	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
NEtFOSA - RA	<0.021		0.20	0.021	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
NMeFOSAA - RA	<0.016		0.20	0.016	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
NEtFOSAA - RA	<0.017		0.20	0.017	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
NMeFOSE - RA	<0.088		1.0	0.088	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
NEtFOSE - RA	<0.077		1.0	0.077	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
HFPO-DA (GenX) - RA	<0.029		0.20	0.029	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	<0.025		0.20	0.025	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA) - RA	<0.036		0.20	0.036	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) - RA	<0.062		0.20	0.062	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
F-53B Major - RA	<0.038		0.20	0.038	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) - RA	<0.038		0.20	0.038	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA	<0.075		0.40	0.075	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA) - RA	<0.25		1.0	0.25	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA) - RA	<0.21		1.0	0.21	ug/Kg		03/07/25 09:25	03/09/25 18:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA	<0.022		0.20	0.022	ug/Kg		03/07/25 09:25	03/09/25 18:07	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA - RA	*67.1*		*8 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C5 PFPeA - RA	*97.5*		*35 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C5 PFHxA - RA	*105*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C4 PFHpA - RA	*103*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C8 PFOA - RA	*92.7*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C9 PFNA - RA	*92.1*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C6 PFDA - RA	*92.5*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C7 PFUnA - RA	*91.1*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C2 PFDoA - RA	*78.8*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C2 PFTeDA - RA	*77.4*		*20 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C3 PFBS - RA	*84.3*		*40 - 135*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C3 PFHxS - RA	*90.4*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C8 PFOS - RA	*95.8*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C8 FOSA - RA	*86.1*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
d3-NMeFOSAA - RA	*88.1*		*40 - 135*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
d5-NEtFOSAA - RA	*80.4*		*40 - 150*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
M2-4:2 FTS - RA	*76.2*		*40 - 165*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
M2-6:2 FTS - RA	*79.7*		*40 - 215*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
M2-8:2 FTS - RA	*79.3*		*40 - 275*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
13C3 HFPO-DA - RA	*105*		*40 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*
d7-N-MeFOSE-M - RA	*95.8*		*20 - 130*	*03/07/25 09:25*	*03/09/25 18:07*	*1*

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

Lab Sample ID: MB 320-838256/1-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 838256

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M - RA	85.7		15 - 130	03/07/25 09:25	03/09/25 18:07	1
d5-NEtPFOSA - RA	89.2		10 - 130	03/07/25 09:25	03/09/25 18:07	1
d3-NMePFOSA - RA	88.3		10 - 130	03/07/25 09:25	03/09/25 18:07	1

Lab Sample ID: LCS 320-838256/3-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 838256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA) - RA	5.00	5.06		ug/Kg		101	70 - 140
Perfluoropentanoic acid (PFPeA) - RA	2.50	2.31		ug/Kg		93	60 - 150
Perfluorohexanoic acid (PFHxA) - RA	2.50	2.65		ug/Kg		106	65 - 140
Perfluoroheptanoic acid (PFHpA) - RA	2.50	2.48		ug/Kg		99	65 - 145
Perfluorooctanoic acid (PFOA) - RA	2.50	2.40		ug/Kg		96	70 - 150
Perfluorononanoic acid (PFNA) - RA	2.50	2.67		ug/Kg		107	70 - 155
Perfluorodecanoic acid (PFDA) - RA	2.50	2.54		ug/Kg		102	70 - 155
Perfluoroundecanoic acid (PFUnA) - RA	2.50	2.58		ug/Kg		103	70 - 155
Perfluorododecanoic acid (PFDoA) - RA	2.50	2.43		ug/Kg		97	70 - 150
Perfluorotridecanoic acid (PFTriA) - RA	2.50	2.50		ug/Kg		100	65 - 150
Perfluorotetradecanoic acid (PFTeA) - RA	2.50	2.48		ug/Kg		99	65 - 150
Perfluorobutanesulfonic acid (PFBS) - RA	2.22	2.40		ug/Kg		108	65 - 145
Perfluoropentanesulfonic acid (PFPeS) - RA	2.35	2.12		ug/Kg		90	55 - 160
Perfluorohexanesulfonic acid (PFHxS) - RA	2.28	2.20		ug/Kg		97	60 - 150
Perfluoroheptanesulfonic acid (PFHpS) - RA	2.39	2.28		ug/Kg		96	65 - 155
Perfluorooctanesulfonic acid (PFOS) - RA	2.33	2.26		ug/Kg		97	65 - 160
Perfluorononanesulfonic acid (PFNS) - RA	2.41	1.69		ug/Kg		70	55 - 140
Perfluorododecanesulfonic acid (PFDoS) - RA	2.43	2.18		ug/Kg		90	25 - 160
4:2 FTS - RA	4.69	5.12		ug/Kg		109	60 - 150
6:2 FTS - RA	4.76	4.24		ug/Kg		89	55 - 200
8:2 FTS - RA	4.80	5.51		ug/Kg		115	70 - 150
Perfluorooctanesulfonamide (FOSA) - RA	2.50	2.47		ug/Kg		99	70 - 140
NMeFOSA - RA	2.50	2.34		ug/Kg		94	70 - 155
NEtFOSA - RA	2.50	2.53		ug/Kg		101	70 - 140
NMeFOSAA - RA	2.50	2.55		ug/Kg		102	65 - 155
NEtFOSAA - RA	2.50	2.48		ug/Kg		99	65 - 165

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

Lab Sample ID: LCS 320-838256/3-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 838256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSE - RA	12.5	11.7		ug/Kg		93	70 - 140
NEtFOSE - RA	12.5	12.1		ug/Kg		97	70 - 135
HFPO-DA (GenX) - RA	1.88	1.76		ug/Kg		94	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	2.37	2.53		ug/Kg		107	70 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA) - RA	2.50	2.49		ug/Kg		99	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) - RA	2.50	2.76		ug/Kg		110	60 - 155
F-53B Major - RA	2.34	2.00		ug/Kg		86	70 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) - RA	2.23	2.41		ug/Kg		108	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA	5.00	3.34		ug/Kg		67	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA) - RA	12.5	13.7		ug/Kg		110	60 - 130
3-Perfluoroheptylpropanoic acid (7:3 FTCA) - RA	12.5	12.7		ug/Kg		102	60 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA	2.50	2.56		ug/Kg		102	30 - 140

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA - RA	*70.6*		*8 - 130*
13C5 PFPeA - RA	*88.8*		*35 - 130*
13C5 PFHxA - RA	*80.4*		*40 - 130*
13C4 PFHpA - RA	*76.0*		*40 - 130*
13C8 PFOA - RA	*93.5*		*40 - 130*
13C9 PFNA - RA	*93.6*		*40 - 130*
13C6 PFDA - RA	*92.9*		*40 - 130*
13C7 PFUnA - RA	*87.4*		*40 - 130*
13C2 PFDoA - RA	*85.4*		*40 - 130*
13C2 PFTeDA - RA	*85.6*		*20 - 130*
13C3 PFBS - RA	*91.2*		*40 - 135*
13C3 PFHxS - RA	*97.2*		*40 - 130*
13C8 PFOS - RA	*108*		*40 - 130*
13C8 FOSA - RA	*103*		*40 - 130*
d3-NMeFOSAA - RA	*102*		*40 - 135*
d5-NEtFOSAA - RA	*97.5*		*40 - 150*
M2-4:2 FTS - RA	*80.0*		*40 - 165*
M2-6:2 FTS - RA	*82.9*		*40 - 215*
M2-8:2 FTS - RA	*80.6*		*40 - 275*
13C3 HFPO-DA - RA	*90.3*		*40 - 130*
d7-N-MeFOSE-M - RA	*103*		*20 - 130*
d9-N-EtFOSE-M - RA	*100*		*15 - 130*
d5-NEtPFOSA - RA	*102*		*10 - 130*
d3-NMePFOSA - RA	*109*		*10 - 130*

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

Lab Sample ID: LCSD 320-838256/4-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 838256

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA) - RA			5.00	4.78		ug/Kg		96	70 - 140	6	30
Perfluoropentanoic acid (PFPeA) - RA			2.50	2.69		ug/Kg		107	60 - 150	15	30
Perfluorohexanoic acid (PFHxA) - RA			2.50	2.40		ug/Kg		96	65 - 140	10	30
Perfluoroheptanoic acid (PFHpA) - RA			2.50	2.42		ug/Kg		97	65 - 145	2	30
Perfluorooctanoic acid (PFOA) - RA			2.50	2.38		ug/Kg		95	70 - 150	1	30
Perfluorononanoic acid (PFNA) - RA			2.50	2.55		ug/Kg		102	70 - 155	5	30
Perfluorodecanoic acid (PFDA) - RA			2.50	2.46		ug/Kg		98	70 - 155	3	30
Perfluoroundecanoic acid (PFUnA) - RA			2.50	2.32		ug/Kg		93	70 - 155	10	30
Perfluorododecanoic acid (PFDoA) - RA			2.50	2.64		ug/Kg		106	70 - 150	8	30
Perfluorotridecanoic acid (PFTriA) - RA			2.50	2.55		ug/Kg		102	65 - 150	2	30
Perfluorotetradecanoic acid (PFTeA) - RA			2.50	2.38		ug/Kg		95	65 - 150	4	30
Perfluorobutanesulfonic acid (PFBS) - RA			2.22	2.12		ug/Kg		96	65 - 145	12	30
Perfluoropentanesulfonic acid (PFPeS) - RA			2.35	2.26		ug/Kg		96	55 - 160	6	30
Perfluorohexanesulfonic acid (PFHxS) - RA			2.28	2.23		ug/Kg		98	60 - 150	1	30
Perfluoroheptanesulfonic acid (PFHpS) - RA			2.39	2.58		ug/Kg		108	65 - 155	12	30
Perfluorooctanesulfonic acid (PFOS) - RA			2.33	2.44		ug/Kg		105	65 - 160	8	30
Perfluorononanesulfonic acid (PFNS) - RA			2.41	1.55		ug/Kg		64	55 - 140	9	30
Perfluorododecanesulfonic acid (PFDoS) - RA			2.43	2.26		ug/Kg		93	25 - 160	3	30
4:2 FTS - RA			4.69	5.33		ug/Kg		114	60 - 150	4	30
6:2 FTS - RA			4.76	4.92		ug/Kg		103	55 - 200	15	30
8:2 FTS - RA			4.80	4.67		ug/Kg		97	70 - 150	16	30
Perfluorooctanesulfonamide (FOSA) - RA			2.50	2.55		ug/Kg		102	70 - 140	3	30
NMeFOSA - RA			2.50	2.51		ug/Kg		100	70 - 155	7	30
NEtFOSA - RA			2.50	2.56		ug/Kg		102	70 - 140	1	30
NMeFOSAA - RA			2.50	2.55		ug/Kg		102	65 - 155	0	30
NEtFOSAA - RA			2.50	2.49		ug/Kg		99	65 - 165	0	30
NMeFOSE - RA			12.5	12.7		ug/Kg		101	70 - 140	8	30
NEtFOSE - RA			12.5	12.7		ug/Kg		102	70 - 135	5	30
HFPO-DA (GenX) - RA			1.88	1.87		ug/Kg		100	70 - 145	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA			2.37	2.43		ug/Kg		103	70 - 160	4	30
Perfluoro-4-methoxybutanoic acid (PFMBA) - RA			2.50	2.51		ug/Kg		101	60 - 150	1	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) - RA			2.50	2.30		ug/Kg		92	60 - 155	18	30

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

Lab Sample ID: LCSD 320-838256/4-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 838256

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
F-53B Major - RA			2.34	1.96		ug/Kg		84	70 - 150	2	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) - RA			2.23	2.37		ug/Kg		106	70 - 140	1	30
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA			5.00	3.88		ug/Kg		78	45 - 130	15	30
3-Perfluoropentylpropanoic acid (5:3 FTCA) - RA			12.5	13.0		ug/Kg		104	60 - 130	6	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA) - RA			12.5	11.3		ug/Kg		90	60 - 150	12	30
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA			2.50	2.59		ug/Kg		104	30 - 140	1	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA - RA	*70.9*		*8 - 130*
13C5 PFPeA - RA	*89.9*		*35 - 130*
13C5 PFHxA - RA	*93.6*		*40 - 130*
13C4 PFHpA - RA	*110*		*40 - 130*
13C8 PFOA - RA	*95.6*		*40 - 130*
13C9 PFNA - RA	*97.0*		*40 - 130*
13C6 PFDA - RA	*84.2*		*40 - 130*
13C7 PFUnA - RA	*84.7*		*40 - 130*
13C2 PFDoA - RA	*69.8*		*40 - 130*
13C2 PFTeDA - RA	*80.3*		*20 - 130*
13C3 PFBS - RA	*96.8*		*40 - 135*
13C3 PFHxS - RA	*96.4*		*40 - 130*
13C8 PFOS - RA	*92.3*		*40 - 130*
13C8 FOSA - RA	*86.8*		*40 - 130*
d3-NMeFOSAA - RA	*92.2*		*40 - 135*
d5-NEtFOSAA - RA	*85.4*		*40 - 150*
M2-4:2 FTS - RA	*71.6*		*40 - 165*
M2-6:2 FTS - RA	*86.7*		*40 - 215*
M2-8:2 FTS - RA	*84.9*		*40 - 275*
13C3 HFPO-DA - RA	*95.7*		*40 - 130*
d7-N-MeFOSE-M - RA	*85.5*		*20 - 130*
d9-N-EtFOSE-M - RA	*84.9*		*15 - 130*
d5-NEtPFOSA - RA	*88.5*		*10 - 130*
d3-NMePFOSA - RA	*92.9*		*10 - 130*

Lab Sample ID: LLCS 320-838256/2-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 838256

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA) - RA			0.800	0.690		ug/Kg		86	70 - 140
Perfluoropentanoic acid (PFPeA) - RA			0.400	0.452		ug/Kg		113	60 - 150
Perfluorohexanoic acid (PFHxA) - RA			0.400	0.335		ug/Kg		84	65 - 140
Perfluoroheptanoic acid (PFHpA) - RA			0.400	0.327		ug/Kg		82	65 - 145

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

Lab Sample ID: LLCS 320-838256/2-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 838256

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA) - RA	0.400	0.427		ug/Kg		107	70 - 150
Perfluorononanoic acid (PFNA) - RA	0.400	0.407		ug/Kg		102	70 - 155
Perfluorodecanoic acid (PFDA) - RA	0.400	0.441		ug/Kg		110	70 - 155
Perfluoroundecanoic acid (PFUnA) - RA	0.400	0.417		ug/Kg		104	70 - 155
Perfluorododecanoic acid (PFDoA) - RA	0.400	0.400		ug/Kg		100	70 - 150
Perfluorotridecanoic acid (PFTriA) - RA	0.400	0.455		ug/Kg		114	65 - 150
Perfluorotetradecanoic acid (PFTeA) - RA	0.400	0.397		ug/Kg		99	65 - 150
Perfluorobutanesulfonic acid (PFBS) - RA	0.355	0.355		ug/Kg		100	65 - 145
Perfluoropentanesulfonic acid (PFPeS) - RA	0.376	0.363		ug/Kg		96	55 - 160
Perfluorohexanesulfonic acid (PFHxS) - RA	0.365	0.377		ug/Kg		103	60 - 150
Perfluoroheptanesulfonic acid (PFHpS) - RA	0.382	0.379		ug/Kg		99	65 - 155
Perfluorooctanesulfonic acid (PFOS) - RA	0.372	0.367		ug/Kg		99	65 - 160
Perfluorononanesulfonic acid (PFNS) - RA	0.385	0.354		ug/Kg		92	55 - 140
Perfluorododecanesulfonic acid (PFDoS) - RA	0.388	0.345		ug/Kg		89	25 - 160
4:2 FTS - RA	0.750	0.674		ug/Kg		90	60 - 150
6:2 FTS - RA	0.762	0.734		ug/Kg		96	55 - 200
8:2 FTS - RA	0.768	0.804		ug/Kg		105	70 - 150
Perfluorooctanesulfonamide (FOSA) - RA	0.400	0.394		ug/Kg		99	70 - 140
NMeFOSA - RA	0.400	0.397		ug/Kg		99	70 - 155
NEtFOSA - RA	0.400	0.400		ug/Kg		100	70 - 140
NMeFOSAA - RA	0.400	0.415		ug/Kg		104	65 - 155
NEtFOSAA - RA	0.400	0.396		ug/Kg		99	65 - 165
NMeFOSE - RA	2.00	1.85		ug/Kg		93	70 - 140
NEtFOSE - RA	2.00	1.99		ug/Kg		100	70 - 135
HFPO-DA (GenX) - RA	0.300	0.278		ug/Kg		93	70 - 145
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	0.378	0.361		ug/Kg		95	70 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA) - RA	0.400	0.466		ug/Kg		116	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) - RA	0.400	0.298		ug/Kg		74	60 - 155
F-53B Major - RA	0.374	0.316		ug/Kg		85	70 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) - RA	0.357	0.355		ug/Kg		99	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA	0.800	0.822		ug/Kg		103	45 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA) - RA	2.00	1.83		ug/Kg		92	60 - 130

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

Lab Sample ID: LLCS 320-838256/2-A
Matrix: Solid
Analysis Batch: 838535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 838256

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
3-Perfluoroheptylpropanoic acid (7:3 FTCA) - RA			2.00	1.75		ug/Kg		88	60 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA			0.400	0.458		ug/Kg		114	30 - 140		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA - RA	*92.5*		*8 - 130*
13C5 PFPeA - RA	*83.7*		*35 - 130*
13C5 PFHxA - RA	*97.1*		*40 - 130*
13C4 PFHpA - RA	*98.1*		*40 - 130*
13C8 PFOA - RA	*83.2*		*40 - 130*
13C9 PFNA - RA	*94.8*		*40 - 130*
13C6 PFDA - RA	*83.4*		*40 - 130*
13C7 PFUnA - RA	*77.3*		*40 - 130*
13C2 PFDoA - RA	*72.8*		*40 - 130*
13C2 PFTeDA - RA	*79.2*		*20 - 130*
13C3 PFBS - RA	*89.2*		*40 - 135*
13C3 PFHxS - RA	*89.1*		*40 - 130*
13C8 PFOS - RA	*83.8*		*40 - 130*
13C8 FOSA - RA	*77.4*		*40 - 130*
d3-NMeFOSAA - RA	*76.4*		*40 - 135*
d5-NEtFOSAA - RA	*74.2*		*40 - 150*
M2-4:2 FTS - RA	*84.8*		*40 - 165*
M2-6:2 FTS - RA	*80.3*		*40 - 215*
M2-8:2 FTS - RA	*72.6*		*40 - 275*
13C3 HFPO-DA - RA	*97.0*		*40 - 130*
d7-N-MeFOSE-M - RA	*85.5*		*20 - 130*
d9-N-EtFOSE-M - RA	*79.0*		*15 - 130*
d5-NEtPFOSA - RA	*62.7*		*10 - 130*
d3-NMePFOSA - RA	*61.1*		*10 - 130*

Lab Chronicle

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

Client Sample ID: WC-Bin 3A-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	808911	MF	EET CHI	03/06/25 13:15

Client Sample ID: WC-Bin 3A-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-1
Matrix: Solid
Percent Solids: 49.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			809116	EA	EET CHI	03/07/25 13:39
Total/NA	Analysis	8260D		50	809393	W1T	EET CHI	03/11/25 16:31
Total/NA	Prep	1633 Shake	RA		838256	KTH	EET SAC	03/07/25 09:25
Total/NA	Analysis	1633A	RA	1	838535	S1M	EET SAC	03/09/25 19:29
Total/NA	Prep	1633 Shake			838256	KTH	EET SAC	03/07/25 09:25
Total/NA	Analysis	1633A		1	838497	K1D	EET SAC	03/08/25 16:38

Client Sample ID: WC-Bin 3B-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	808911	MF	EET CHI	03/06/25 12:33

Client Sample ID: WC-Bin 3B-022725
Date Collected: 02/27/25 12:21
Date Received: 03/05/25 10:40

Lab Sample ID: 500-264746-2
Matrix: Solid
Percent Solids: 68.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			808924	KP	EET CHI	02/27/25 00:00
Total/NA	Analysis	8260D		50	809562	PMF	EET CHI	03/12/25 12:25
Total/NA	Prep	1633 Shake	RA		838256	KTH	EET SAC	03/07/25 09:25
Total/NA	Analysis	1633A	RA	1	838535	S1M	EET SAC	03/09/25 19:45
Total/NA	Prep	1633 Shake			838256	KTH	EET SAC	03/07/25 09:25
Total/NA	Analysis	1633A		1	838497	K1D	EET SAC	03/08/25 16:52

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, 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: 500-264746-1
Project/Site: TYCO - SOILS 415-005-001

Laboratory: Eurofins Chicago

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

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

Laboratory: Eurofins Sacramento

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

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

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	Sampler: T. Hanson	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-130090 51167 1
Client Contact: Mr Kirk Kapfhammer	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 1 of 1
Company: Endpoint Solutions Corp	PWSID:	Analysis Requested		Job #: 500-264746
Address: 6871 S Lover's Lane	Due Date Requested:			Preservation Codes: N None
City: Franklin	TAT Requested (days): 1 Week Rush			
State, Zip: WI, 53132	Compliance Project: Δ Yes Δ No			
Phone: 414-4271200(Tel)	PO #: Purchase Order not required			
Email: kirk@endpointcorporation com	WO #:			Other:
Project Name: TYCO - SOILS	Project #: 50016218			
Site:	SSOW#:			

500-264746 COC

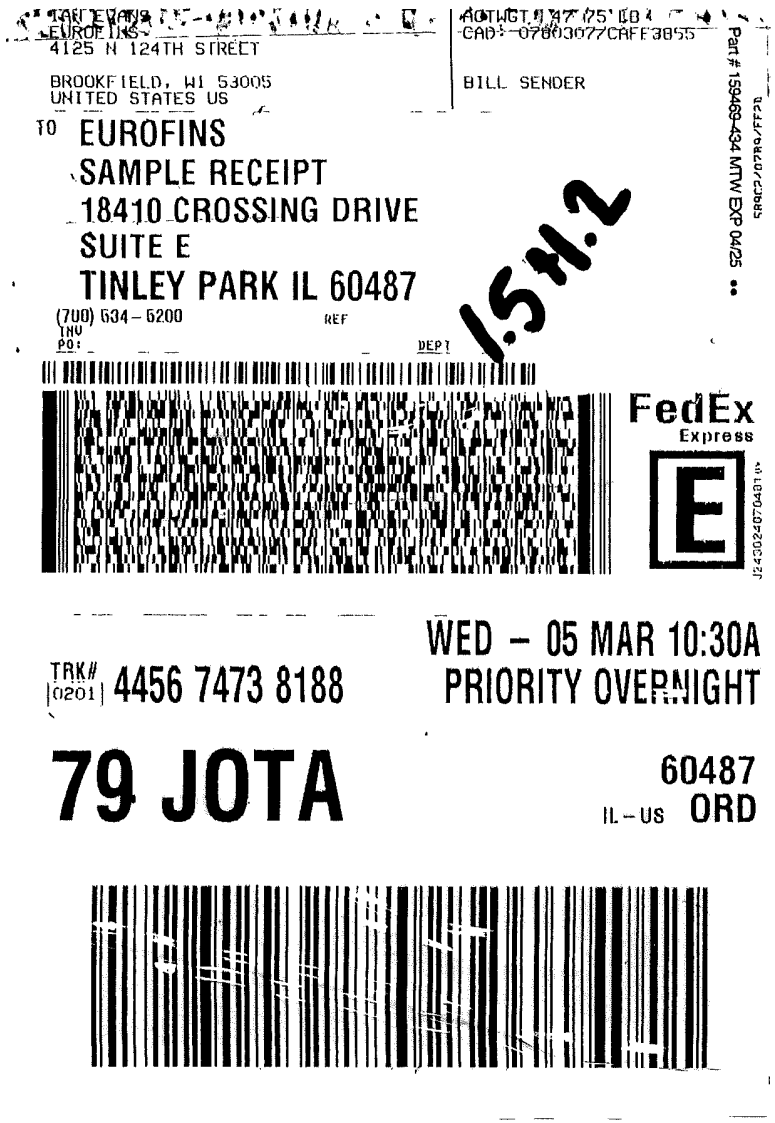
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Standard List (36 Analytes)	8260D - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
1 WC-Bin3A-022725	2/27/25	12:21	C	Solid			X	X		
2 WC-Bin3B-022725	2/27/25	12:21	1	1			X	X		

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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		3/4/25 0700	Endpoint		3/4/25 1147	Eurofins
2		3/4/25 1630	Eurofins		3/5/25 1040	EFIA
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.5→1.2



500-264746 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	Sampler: T. Hanson	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-130090-51167 1
Client Contact: Mr Kirk Kapfhammer	Phone:	E-Mail: Sandra Fredrick@et.eurofinsus.com	State of Origin: WI	Page: Page 1 of 1
Company: Endpoint Solutions Corp	PWSID:			Job #:
Address: 6871 S. Lover's Lane	Due Date Requested:			
City: Franklin	TAT Requested (days): 1 Week Rush			
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:	SSOW#:			

Analysis Requested

Preservation Codes: N - None; 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	Total Number of Containers	Special Instructions/Note:
			Preservation Code:				N	N		
WC-Bin3A-022725	2/27/25	12:21	C	Solid			X	X		
WC-Bin3B-022725	2/27/25	12:21	C	Solid			X	X		

500-264746 Chain of Custody

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		3/4/25 0700	Endpoint		3/4/25 1147	Eurofins
2		3/4/25 1630	Eurofins			
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.1c

Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-264746-1

Login Number: 264746
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	1.2
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: 500-264746-1

Login Number: 264746
List Number: 2
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 03/05/25 04:03 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	2786277
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	2.4c
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.	N/A	

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (8-130)	PFPeA (35-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (40-130)
500-264746-1	WC-Bin 3A-022725								
500-264746-1 - RA	WC-Bin 3A-022725	78.1	55.0	86.0	101	88.1	80.7	88.6	81.7
500-264746-2	WC-Bin 3B-022725								
500-264746-2 - RA	WC-Bin 3B-022725	45.1	60.9	85.6	94.8	93.1	89.8	81.4	79.8
LCS 320-838256/3-A	Lab Control Sample								
LCS 320-838256/3-A - RA	Lab Control Sample	70.6	88.8	80.4	76.0	93.5	93.6	92.9	87.4
LCSD 320-838256/4-A	Lab Control Sample Dup								
LCSD 320-838256/4-A - RA	Lab Control Sample Dup	70.9	89.9	93.6	110	95.6	97.0	84.2	84.7
LLCS 320-838256/2-A	Lab Control Sample								
LLCS 320-838256/2-A - RA	Lab Control Sample	92.5	83.7	97.1	98.1	83.2	94.8	83.4	77.3
MB 320-838256/1-A	Method Blank								
MB 320-838256/1-A - RA	Method Blank	67.1	97.5	105	103	92.7	92.1	92.5	91.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (40-130)	PFTDA (20-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-135)	d5NEFOS (40-150)
500-264746-1	WC-Bin 3A-022725					80.0			
500-264746-1 - RA	WC-Bin 3A-022725	68.1	92.3	77.8	84.9	90.3	83.5	85.2	85.1
500-264746-2	WC-Bin 3B-022725					74.8			
500-264746-2 - RA	WC-Bin 3B-022725	69.3	81.1	75.2	88.6	85.8	93.2	89.3	80.2
LCS 320-838256/3-A	Lab Control Sample					92.3			
LCS 320-838256/3-A - RA	Lab Control Sample	85.4	85.6	91.2	97.2	108	103	102	97.5
LCSD 320-838256/4-A	Lab Control Sample Dup					81.7			
LCSD 320-838256/4-A - RA	Lab Control Sample Dup	69.8	80.3	96.8	96.4	92.3	86.8	92.2	85.4
LLCS 320-838256/2-A	Lab Control Sample					76.2			
LLCS 320-838256/2-A - RA	Lab Control Sample	72.8	79.2	89.2	89.1	83.8	77.4	76.4	74.2
MB 320-838256/1-A	Method Blank					82.1			
MB 320-838256/1-A - RA	Method Blank	78.8	77.4	84.3	90.4	95.8	86.1	88.1	80.4

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (40-165)	M262FTS (40-215)	M282FTS (40-275)	HFPODA (40-130)	NMFM (20-130)	NEFM (15-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
500-264746-1	WC-Bin 3A-022725				88.6				
500-264746-1 - RA	WC-Bin 3A-022725	190 *5+	190	141	91.1	44.9	90.0	70.9	75.9
500-264746-2	WC-Bin 3B-022725		163		75.6				
500-264746-2 - RA	WC-Bin 3B-022725	168 *5+		161	109	36.4	97.1	66.8	90.9
LCS 320-838256/3-A	Lab Control Sample				102				
LCS 320-838256/3-A - RA	Lab Control Sample	80.0	82.9	80.6	90.3	103	100	102	109
LCSD 320-838256/4-A	Lab Control Sample Dup				86.0				
LCSD 320-838256/4-A - RA	Lab Control Sample Dup	71.6	86.7	84.9	95.7	85.5	84.9	88.5	92.9
LLCS 320-838256/2-A	Lab Control Sample				96.3				
LLCS 320-838256/2-A - RA	Lab Control Sample	84.8	80.3	72.6	97.0	85.5	79.0	62.7	61.1
MB 320-838256/1-A	Method Blank				122				
MB 320-838256/1-A - RA	Method Blank	76.2	79.7	79.3	105	95.8	85.7	89.2	88.3

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA

Isotope Dilution Summary

Client: Endpoint Solutions Corp
Project/Site: TYCO - SOILS 415-005-001

Job ID: 500-264746-1

C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA