Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

18-046-Aquino Lancaster
Eurofins SDG#480-213184-1
June 13, 2025
Sampling date: 9/28/2023

Prepared by:
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Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Matrix Environmental Technologies, Inc., project located at 18-046-Aquino Lancaster, Eurofins SDG#480-213184-1 submitted to Vali-Data of WNY, LLC on April 8, 2025. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG). The laboratory performed the analysis using USEPA method Volatile Organics (8260C).

ID	Sample ID	Laboratory ID
1	EX-7 (6.5')	480-213184-1
2	EX-8 (6.5')	480-213184-2
3	EX-9 (5.5')	480-213184-3
4	EX-10 (6.5')	480-213184-4
5	EX-11 (6.0')	480-213184-5

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in MS/MSD and Continuing Calibration.

Samples: DUSR ID#1 and #1MS/MSD underwent medium level analysis due to sample matrix.
Samples: DUSR ID#2, #4 and #5 underwent medium level analysis and dilution due to high target analyte concentrations.
Samples: DUSR ID#1MS/MD were diluted due to high target analyte concentrations.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All criteria were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met except several target analytes were outside QC limits in the matrix spikes and should be qualified as estimated.

Target Analyte	%Rec #1MS	%Rec #1MSD	RPD	Qualifier	Associated Sample
Acetone	191	176	-	JH	1
cis-1,2-Dichloroethene	191	159	24	J	1
Methylene chloride	146	139	-	JH	1
trans-1,2-Dichloroethene	153	-	21	J	1
Trichloroethene	173	148	-	JH	1

The %Rec of several target analytes was outside QC limits, high in the matrix spikes. Those

target analytes were not detected in the associated sample, so no further action is required.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on some target analytes, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except a couple of target analytes were outside QC limits in a continuing calibration and should be qualified as estimated in the associated samples, blanks and spikes.

CCal ID	Target Analyte	RRF/%D	Qualifier	Associated Sample
CCVIS 480-685724/4	Carbon tetrachloride	37.4	UJ/J	480-685723, 3
CCVIS 480-685901/4	Acetone	40.5	UJ/J	480-685949, 1, 2, 4, 5, 1MS/MSD

GC/MS PERFORMANCE CHECK
All criteria were met.

Job Narrative
480-213184-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/29/2023 4:00 PM. 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 time was 3.5°C

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-685724 recovered above the upper control limit for 1,1,1-Trichloroethane, Carbon tetrachloride and Trichlorofluoromethane. The sample associated with this CCV was non-detect for the affected analytes; therefore, the data has been reported. The associated sample is impacted: EX-9 (5.5) (480-213184-3).

Method 8260C: The following samples were analyzed using medium level soil analysis due to the nature of the sample matrix: EX-7 (6.5) (480-213184-1), EX-7 (6.5) MS (480-213184-1[MS]) and EX-7 (6.5) MSD (480-213184-1[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: EX-8 (6.5) (480-213184-2), EX-10 (6.5) (480-213184-4) and EX-11 (6.0) (480-213184-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: EX-7 (6.5) MS (480-213184-1[MS]) and EX-7 (6.5) MSD (480-213184-1[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

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

Client Sample ID: EX-7 (6.5')
Lab Sample ID: 480-213184-1

Date Collected: 09/28/23 07:43
Matrix: Solid
Date Received: 09/29/23 16:00
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	49	U F1	49	14	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,1,2,2-Tetrachloroethane	49	U F1	49	8.0	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	49	U	49	25	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,1,2-Trichloroethane	49	U F1	49	10	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,1-Dichloroethane	49	U F1	49	15	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,1-Dichloroethene	49	U	49	17	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,2,4-Trichlorobenzene	49	U F2 F1	49	19	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,2-Dibromo-3-Chloropropane	49	U F1	49	25	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,2-Dibromoethane	49	U F1	49	8.6	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,2-Dichlorobenzene	49	U F1	49	13	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,2-Dichloroethane	49	U F1	49	20	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,2-Dichloropropane	49	U F1	49	8.0	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,3-Dichlorobenzene	49	U F1	49	13	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
1,4-Dichlorobenzene	49	U F1	49	6.9	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
2-Butanone (MEK)	250	U F1	250	150	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
2-Hexanone	250	U F1	250	100	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
4-Methyl-2-pentanone (MIBK)	250	U F1	250	16	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Acetone	**360**	**F1**	250	200	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Benzene	49	U F1	49	9.3	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Bromodichloromethane	49	U F1	49	9.8	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Bromoform	49	U	49	25	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Bromomethane	49	U F2	49	11	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Carbon disulfide	49	U	49	22	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Carbon tetrachloride	49	U	49	13	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Chlorobenzene	49	U F1	49	6.5	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Chloroethane	49	U F2	49	10	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Chloroform	49	U F1	49	34	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Chloromethane	49	U	49	12	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
cis-1,2-Dichloroethene	**290**	**F2 F1**	49	14	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
cis-1,3-Dichloropropene	49	U F1	49	12	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Cyclohexane	49	U	49	11	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Dibromochloromethane	49	U F1	49	24	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Dichlorodifluoromethane	49	U F2	49	21	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Ethylbenzene	49	U F1	49	14	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Isopropylbenzene	49	U F1	49	7.4	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Methyl acetate	250	U F2 F1	250	23	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Methyl tert-butyl ether	49	U F1	49	19	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Methylcyclohexane	49	U	49	23	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Methylene Chloride	**15**	**J F1**	49	9.7	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Styrene	49	U F1	49	12	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Tetrachloroethene	49	U F1	49	6.6	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Toluene	49	U F1	49	13	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
trans-1,2-Dichloroethene	**16**	**J F2 F1**	49	12	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
trans-1,3-Dichloropropene	49	U F1	49	4.8	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Trichloroethene	**82**	**F2 F1**	49	14	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Trichlorofluoromethane	49	U F2	49	23	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Vinyl chloride	49	U	49	16	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1
Xylenes, Total	98	U F1	98	27	ug/Kg	☼	10/03/23 11:52	10/03/23 14:20	1

Client Sample Results

Client: Matrix Environmental Technologies Inc
Job ID: 480-213184-1
Project/Site: Project # 18-046 - Aquino Lancaster

Client Sample ID: EX-7 (6.5')
Lab Sample ID: 480-213184-1

Date Collected: 09/28/23 07:43
Matrix: Solid
Date Received: 09/29/23 16:00
Percent Solids: 82.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		53 - 146	10/03/23 11:52	10/03/23 14:20	1
4-Bromofluorobenzene (Surr)	96		49 - 148	10/03/23 11:52	10/03/23 14:20	1
Dibromofluoromethane (Surr)	99		60 - 140	10/03/23 11:52	10/03/23 14:20	1
Toluene-d8 (Surr)	107		50 - 149	10/03/23 11:52	10/03/23 14:20	1

Client Sample Results

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-213184-1

Client Sample ID: EX-8 (6.5')

Date Collected: 09/28/23 09:49
Date Received: 09/29/23 16:00

Lab Sample ID: 480-213184-2

Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1600	U	1600	440	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,1,2,2-Tetrachloroethane	1600	U	1600	260	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,1,2-Trichloro-1,2,2-trifluoroethane	1600	U	1600	790	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,1,2-Trichloroethane	1600	U	1600	330	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,1-Dichloroethane	1600	U	1600	490	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,1-Dichloroethene	1600	U	1600	550	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,2,4-Trichlorobenzene	1600	U	1600	600	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,2-Dibromo-3-Chloropropane	1600	U	1600	790	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,2-Dibromoethane	1600	U	1600	280	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,2-Dichlorobenzene	1600	U	1600	400	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,2-Dichloroethane	1600	U	1600	650	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,2-Dichloropropane	1600	U	1600	260	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,3-Dichlorobenzene	1600	U	1600	420	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
1,4-Dichlorobenzene	1600	U	1600	220	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
2-Butanone (MEK)	7900	U	7900	4700	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
2-Hexanone	7900	U	7900	3300	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
4-Methyl-2-pentanone (MIBK)	7900	U	7900	510	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Acetone	7900	U	7900	6500	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Benzene	1600	U	1600	300	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Bromodichloromethane	1600	U	1600	320	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Bromoform	1600	U	1600	790	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Bromomethane	1600	U	1600	350	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Carbon disulfide	1600	U	1600	720	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Carbon tetrachloride	1600	U	1600	400	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Chlorobenzene	1600	U	1600	210	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Chloroethane	1600	U	1600	330	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Chloroform	1600	U	1600	1100	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Chloromethane	1600	U	1600	380	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
cis-1,2-Dichloroethene	1600	U	1600	440	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
cis-1,3-Dichloropropene	1600	U	1600	380	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Cyclohexane	1600	U	1600	350	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Dibromochloromethane	1600	U	1600	770	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Dichlorodifluoromethane	1600	U	1600	690	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Ethylbenzene	1600	U	1600	460	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Isopropylbenzene	1600	U	1600	240	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Methyl acetate	7900	U	7900	760	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Methyl tert-butyl ether	1600	U	1600	600	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Methylcyclohexane	1600	U	1600	740	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Methylene Chloride	1600	U	1600	310	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Styrene	1600	U	1600	380	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Tetrachloroethene	**53000**		1600	210	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Toluene	1600	U	1600	430	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
trans-1,2-Dichloroethene	1600	U	1600	370	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
trans-1,3-Dichloropropene	1600	U	1600	160	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Trichloroethene	**3800**		1600	440	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Trichlorofluoromethane	1600	U	1600	740	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Vinyl chloride	1600	U	1600	530	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40
Xylenes, Total	3200	U	3200	880	ug/Kg	☼	10/03/23 11:52	10/03/23 14:43	40

Client Sample Results

Client: Matrix Environmental Technologies Inc
Job ID: 480-213184-1
Project/Site: Project # 18-046 - Aquino Lancaster

Client Sample ID: EX-8 (6.5')
Lab Sample ID: 480-213184-2

Date Collected: 09/28/23 09:49
Matrix: Solid
Date Received: 09/29/23 16:00
Percent Solids: 85.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		53 - 146	10/03/23 11:52	10/03/23 14:43	40
4-Bromofluorobenzene (Surr)	95		49 - 148	10/03/23 11:52	10/03/23 14:43	40
Dibromofluoromethane (Surr)	108		60 - 140	10/03/23 11:52	10/03/23 14:43	40
Toluene-d8 (Surr)	106		50 - 149	10/03/23 11:52	10/03/23 14:43	40

Client Sample Results

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-213184-1

Client Sample ID: EX-9 (5.5')

Date Collected: 09/28/23 10:08
Date Received: 09/29/23 16:00

Lab Sample ID: 480-213184-3

Matrix: Solid
Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.8	U	5.8	0.42	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,1,2,2-Tetrachloroethane	5.8	U	5.8	0.93	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	5.8	1.3	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,1,2-Trichloroethane	5.8	U	5.8	0.75	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,1-Dichloroethane	5.8	U	5.8	0.70	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,1-Dichloroethene	5.8	U	5.8	0.70	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,2,4-Trichlorobenzene	5.8	U	5.8	0.35	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,2-Dibromo-3-Chloropropane	5.8	U	5.8	2.9	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,2-Dibromoethane	5.8	U	5.8	0.74	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,2-Dichlorobenzene	5.8	U	5.8	0.45	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,2-Dichloroethane	5.8	U	5.8	0.29	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,2-Dichloropropane	5.8	U	5.8	2.9	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,3-Dichlorobenzene	5.8	U	5.8	0.30	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
1,4-Dichlorobenzene	5.8	U	5.8	0.81	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
2-Butanone (MEK)	29	U	29	2.1	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
2-Hexanone	29	U	29	2.9	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
4-Methyl-2-pentanone (MIBK)	29	U	29	1.9	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Acetone	29	U	29	4.8	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Benzene	5.8	U	5.8	0.28	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Bromodichloromethane	5.8	U	5.8	0.77	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Bromoform	5.8	U	5.8	2.9	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Bromomethane	5.8	U	5.8	0.52	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Carbon disulfide	5.8	U	5.8	2.9	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Carbon tetrachloride	5.8	U	5.8	0.56	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Chlorobenzene	5.8	U	5.8	0.76	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Chloroethane	5.8	U	5.8	1.3	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Chloroform	5.8	U	5.8	0.36	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Chloromethane	5.8	U	5.8	0.35	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
cis-1,2-Dichloroethene	5.8	U	5.8	0.74	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
cis-1,3-Dichloropropene	5.8	U	5.8	0.83	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Cyclohexane	5.8	U	5.8	0.81	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Dibromochloromethane	5.8	U	5.8	0.74	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Dichlorodifluoromethane	5.8	U	5.8	0.48	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Ethylbenzene	5.8	U	5.8	0.40	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Isopropylbenzene	5.8	U	5.8	0.87	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Methyl acetate	29	U	29	3.5	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Methyl tert-butyl ether	5.8	U	5.8	0.57	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Methylcyclohexane	5.8	U	5.8	0.87	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Methylene Chloride	5.8	U	5.8	2.6	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Styrene	5.8	U	5.8	0.29	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Tetrachloroethene	5.8	U	5.8	0.77	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Toluene	5.8	U	5.8	0.44	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
trans-1,2-Dichloroethene	5.8	U	5.8	0.59	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
trans-1,3-Dichloropropene	5.8	U	5.8	2.5	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Trichloroethene	5.8	U	5.8	1.3	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Trichlorofluoromethane	5.8	U	5.8	0.54	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Vinyl chloride	5.8	U	5.8	0.70	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1
Xylenes, Total	12	U	12	0.97	ug/Kg	☼	09/29/23 16:30	10/01/23 10:52	1

Client Sample Results

Client: Matrix Environmental Technologies Inc
Job ID: 480-213184-1
Project/Site: Project # 18-046 - Aquino Lancaster

Client Sample ID: EX-9 (5.5')
Lab Sample ID: 480-213184-3

Date Collected: 09/28/23 10:08
Matrix: Solid
Date Received: 09/29/23 16:00
Percent Solids: 90.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	09/29/23 16:30	10/01/23 10:52	1
4-Bromofluorobenzene (Surr)	104		72 - 126	09/29/23 16:30	10/01/23 10:52	1
Dibromofluoromethane (Surr)	112		60 - 140	09/29/23 16:30	10/01/23 10:52	1
Toluene-d8 (Surr)	92		71 - 125	09/29/23 16:30	10/01/23 10:52	1

Client Sample Results

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-213184-1

Client Sample ID: EX-10 (6.5')

Date Collected: 09/28/23 11:47
Date Received: 09/29/23 16:00

Lab Sample ID: 480-213184-4

Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	460	U	460	130	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,1,2,2-Tetrachloroethane	460	U	460	75	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,1,2-Trichloro-1,2,2-trifluoroethane	460	U	460	230	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,1,2-Trichloroethane	460	U	460	98	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,1-Dichloroethane	460	U	460	140	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,1-Dichloroethene	460	U	460	160	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,2,4-Trichlorobenzene	460	U	460	180	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,2-Dibromo-3-Chloropropane	460	U	460	230	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,2-Dibromoethane	460	U	460	81	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,2-Dichlorobenzene	460	U	460	120	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,2-Dichloroethane	460	U	460	190	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,2-Dichloropropane	460	U	460	75	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,3-Dichlorobenzene	460	U	460	120	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
1,4-Dichlorobenzene	460	U	460	65	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
2-Butanone (MEK)	2300	U	2300	1400	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
2-Hexanone	2300	U	2300	950	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
4-Methyl-2-pentanone (MIBK)	2300	U	2300	150	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Acetone	2300	U	2300	1900	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Benzene	460	U	460	88	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Bromodichloromethane	460	U	460	93	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Bromoform	460	U	460	230	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Bromomethane	460	U	460	100	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Carbon disulfide	460	U	460	210	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Carbon tetrachloride	460	U	460	120	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Chlorobenzene	460	U	460	61	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Chloroethane	460	U	460	97	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Chloroform	460	U	460	320	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Chloromethane	460	U	460	110	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
cis-1,2-Dichloroethene	460	U	460	130	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
cis-1,3-Dichloropropene	460	U	460	110	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Cyclohexane	460	U	460	100	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Dibromochloromethane	460	U	460	220	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Dichlorodifluoromethane	460	U	460	200	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Ethylbenzene	460	U	460	140	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Isopropylbenzene	460	U	460	70	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Methyl acetate	2300	U	2300	220	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Methyl tert-butyl ether	460	U	460	180	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Methylcyclohexane	460	U	460	220	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Methylene Chloride	460	U	460	92	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Styrene	460	U	460	110	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Tetrachloroethene	**34000**		460	62	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Toluene	460	U	460	120	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
trans-1,2-Dichloroethene	460	U	460	110	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
trans-1,3-Dichloropropene	460	U	460	46	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Trichloroethene	**740**		460	130	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Trichlorofluoromethane	460	U	460	220	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Vinyl chloride	460	U	460	160	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8
Xylenes, Total	930	U	930	260	ug/Kg	☼	10/03/23 11:52	10/03/23 15:06	8

Client Sample Results

Client: Matrix Environmental Technologies Inc
Job ID: 480-213184-1
Project/Site: Project # 18-046 - Aquino Lancaster

Client Sample ID: EX-10 (6.5')
Lab Sample ID: 480-213184-4

Date Collected: 09/28/23 11:47
Matrix: Solid
Date Received: 09/29/23 16:00
Percent Solids: 80.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		53 - 146	10/03/23 11:52	10/03/23 15:06	8
4-Bromofluorobenzene (Surr)	95		49 - 148	10/03/23 11:52	10/03/23 15:06	8
Dibromofluoromethane (Surr)	105		60 - 140	10/03/23 11:52	10/03/23 15:06	8
Toluene-d8 (Surr)	107		50 - 149	10/03/23 11:52	10/03/23 15:06	8

Client Sample Results

Client: Matrix Environmental Technologies Inc
Project/Site: Project # 18-046 - Aquino Lancaster

Job ID: 480-213184-1

Client Sample ID: EX-11 (6.0')

Date Collected: 09/28/23 11:58
Date Received: 09/29/23 16:00

Lab Sample ID: 480-213184-5

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	110	U	110	32	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,1,2,2-Tetrachloroethane	110	U	110	18	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,1,2-Trichloro-1,2,2-trifluoroethane	110	U	110	57	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,1,2-Trichloroethane	110	U	110	24	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,1-Dichloroethane	110	U	110	35	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,1-Dichloroethene	110	U	110	39	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,2,4-Trichlorobenzene	110	U	110	43	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,2-Dibromo-3-Chloropropane	110	U	110	57	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,2-Dibromoethane	110	U	110	20	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,2-Dichlorobenzene	110	U	110	29	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,2-Dichloroethane	110	U	110	47	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,2-Dichloropropane	110	U	110	18	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,3-Dichlorobenzene	110	U	110	30	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
1,4-Dichlorobenzene	110	U	110	16	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
2-Butanone (MEK)	570	U	570	340	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
2-Hexanone	570	U	570	230	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
4-Methyl-2-pentanone (MIBK)	570	U	570	36	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Acetone	570	U	570	470	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Benzene	110	U	110	22	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Bromodichloromethane	110	U	110	23	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Bromoform	110	U	110	57	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Bromomethane	110	U	110	25	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Carbon disulfide	110	U	110	52	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Carbon tetrachloride	110	U	110	29	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Chlorobenzene	110	U	110	15	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Chloroethane	110	U	110	24	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Chloroform	110	U	110	78	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Chloromethane	110	U	110	27	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
cis-1,2-Dichloroethene	110	U	110	31	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
cis-1,3-Dichloropropene	110	U	110	27	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Cyclohexane	110	U	110	25	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Dibromochloromethane	110	U	110	55	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Dichlorodifluoromethane	110	U	110	50	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Ethylbenzene	110	U	110	33	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Isopropylbenzene	110	U	110	17	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Methyl acetate	570	U	570	54	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Methyl tert-butyl ether	110	U	110	43	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Methylcyclohexane	110	U	110	53	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Methylene Chloride	110	U	110	23	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Styrene	110	U	110	27	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Tetrachloroethene	**5000**		110	15	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Toluene	110	U	110	30	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
trans-1,2-Dichloroethene	110	U	110	27	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
trans-1,3-Dichloropropene	110	U	110	11	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Trichloroethene	**270**		110	32	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Trichlorofluoromethane	110	U	110	53	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Vinyl chloride	110	U	110	38	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2
Xylenes, Total	230	U	230	63	ug/Kg	☼	10/03/23 11:52	10/03/23 15:30	2

Client Sample Results

Client: Matrix Environmental Technologies Inc
Job ID: 480-213184-1
Project/Site: Project # 18-046 - Aquino Lancaster

Client Sample ID: EX-11 (6.0')
Lab Sample ID: 480-213184-5

Date Collected: 09/28/23 11:58
Matrix: Solid
Date Received: 09/29/23 16:00
Percent Solids: 84.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		53 - 146	10/03/23 11:52	10/03/23 15:30	2
4-Bromofluorobenzene (Surr)	98		49 - 148	10/03/23 11:52	10/03/23 15:30	2
Dibromofluoromethane (Surr)	103		60 - 140	10/03/23 11:52	10/03/23 15:30	2
Toluene-d8 (Surr)	107		50 - 149	10/03/23 11:52	10/03/23 15:30	2

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213184-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: S1867.d

Lab ID: 480-213184-1 MS Client ID: EX-7 (6.5') MS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	1010	49 U	1450	144	64-142	F1
1,1,2,2-Tetrachloroethane	1010	49 U	1690	168	56-128	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	1010	49 U	1070	106	64-154	
1,1,2-Trichloroethane	1010	49 U	1740	173	63-133	F1
1,1-Dichloroethane	1010	49 U	1590	157	64-135	F1
1,1-Dichloroethene	1010	49 U	1290	128	62-145	
1,2,4-Trichlorobenzene	1010	49 U	1680	167	56-145	F1
1,2-Dibromo-3-Chloropropane	1010	49 U	1480	146	40-122	F1
1,2-Dibromoethane	1010	49 U	1670	166	65-133	F1
1,2-Dichlorobenzene	1010	49 U	1750	173	68-133	F1
1,2-Dichloroethane	1010	49 U	1630	161	62-135	F1
1,2-Dichloropropane	1010	49 U	1650	164	67-139	F1
1,3-Dichlorobenzene	1010	49 U	1760	174	68-136	F1
1,4-Dichlorobenzene	1010	49 U	1700	168	69-136	F1
2-Butanone (MEK)	5050	250 U	9010	178	46-132	F1
2-Hexanone	5050	250 U	8370	166	44-130	F1
4-Methyl-2-pentanone (MIBK)	5050	250 U	8430	167	49-125	F1
Acetone	5050	360	10000	191	32-136	F1
Benzene	1010	49 U	1630	162	68-137	F1
Bromodichloromethane	1010	49 U	1570	156	62-136	F1
Bromoform	1010	49 U	1330	131	43-134	
Bromomethane	1010	49 U	1160	115	38-137	
Carbon disulfide	1010	49 U	1220	120	52-139	
Carbon tetrachloride	1010	49 U	1210	120	60-150	
Chlorobenzene	1010	49 U	1730	172	67-136	F1
Chloroethane	1010	49 U	1120	111	34-140	
Chloroform	1010	49 U	1600	158	64-133	F1
Chloromethane	1010	49 U	1230	122	47-143	
cis-1,2-Dichloroethene	1010	290	2220	191	65-137	F1
cis-1,3-Dichloropropene	1010	49 U	1560	155	61-148	F1
Cyclohexane	1010	49 U	1300	129	63-149	
Dibromochloromethane	1010	49 U	1580	157	57-137	F1
Dichlorodifluoromethane	1010	49 U	606	60	26-150	
Ethylbenzene	1010	49 U	1750	173	67-136	F1
Isopropylbenzene	1010	49 U	1920	190	65-147	F1
Methyl acetate	2020	250 U	3230	160	50-124	F1
Methyl tert-butyl ether	1010	49 U	1520	150	60-130	F1
Methylcyclohexane	1010	49 U	1350	133	67-150	
Methylene Chloride	1010	15 J	1490	146	63-138	F1
Styrene	1010	49 U	1690	167	68-137	F1
Tetrachloroethene	1010	49 U	1770	175	67-150	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213184-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: S1867.d

Lab ID: 480-213184-1 MS Client ID: EX-7 (6.5') MS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Toluene	1010	49 U	1770	176	68-137	F1
trans-1,2-Dichloroethene	1010	16 J	1560	153	65-138	F1
trans-1,3-Dichloropropene	1010	49 U	1600	158	58-143	F1
Trichloroethene	1010	82	1830	173	69-143	F1
Trichlorofluoromethane	1010	49 U	1130	112	35-150	
Vinyl chloride	1010	49 U	1250	124	56-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213184-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: S1868.d

Lab ID: 480-213184-1 MSD Client ID: EX-7 (6.5') MSD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	912	1210	133	18	20	64-142	
1,1,2,2-Tetrachloroethane	912	1390	153	19	20	56-128	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	912	979	107	8	20	64-154	
1,1,2-Trichloroethane	912	1430	157	20	20	63-133	F1
1,1-Dichloroethane	912	1330	146	18	20	64-135	F1
1,1-Dichloroethene	912	1160	127	11	20	62-145	
1,2,4-Trichlorobenzene	912	1370	150	21	20	56-145	F1 F2
1,2-Dibromo-3-Chloropropane	912	1220	133	19	20	40-122	F1
1,2-Dibromoethane	912	1400	153	18	20	65-133	F1
1,2-Dichlorobenzene	912	1450	159	18	20	68-133	F1
1,2-Dichloroethane	912	1360	149	18	20	62-135	F1
1,2-Dichloropropane	912	1400	153	17	20	67-139	F1
1,3-Dichlorobenzene	912	1460	161	18	20	68-136	F1
1,4-Dichlorobenzene	912	1420	155	18	20	69-136	F1
2-Butanone (MEK)	4560	7660	168	16	20	46-132	F1
2-Hexanone	4560	6920	152	19	20	44-130	F1
4-Methyl-2-pentanone (MIBK)	4560	6940	152	19	20	49-125	F1
Acetone	4560	8380	176	18	20	32-136	F1
Benzene	912	1360	149	19	20	68-137	F1
Bromodichloromethane	912	1310	144	18	20	62-136	F1
Bromoform	912	1150	126	14	20	43-134	
Bromomethane	912	942	103	21	20	38-137	F2
Carbon disulfide	912	1020	112	17	20	52-139	
Carbon tetrachloride	912	1060	116	14	20	60-150	
Chlorobenzene	912	1440	158	18	20	67-136	F1
Chloroethane	912	892	98	22	20	34-140	F2
Chloroform	912	1330	146	18	20	64-133	F1
Chloromethane	912	1010	111	19	20	47-143	
cis-1,2-Dichloroethene	912	1750	159	24	20	65-137	F1 F2
cis-1,3-Dichloropropene	912	1350	148	15	20	61-148	
Cyclohexane	912	1140	125	13	20	63-149	
Dibromochloromethane	912	1320	145	18	20	57-137	F1
Dichlorodifluoromethane	912	436	48	33	20	26-150	F2
Ethylbenzene	912	1450	159	19	20	67-136	F1
Isopropylbenzene	912	1570	172	20	20	65-147	F1
Methyl acetate	1820	2600	142	22	20	50-124	F1 F2
Methyl tert-butyl ether	912	1280	140	17	20	60-130	F1
Methylcyclohexane	912	1140	125	17	20	67-150	
Methylene Chloride	912	1280	139	15	20	63-138	F1
Styrene	912	1400	153	19	20	68-137	F1
Tetrachloroethene	912	1460	160	19	20	67-150	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-213184-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: S1868.d

Lab ID: 480-213184-1 MSD Client ID: EX-7 (6.5') MSD MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	912	1450	159	20	20	68-137	F1
trans-1,2-Dichloroethene	912	1260	137	21	20	65-138	F2
trans-1,3-Dichloropropene	912	1350	148	17	20	58-143	F1
Trichloroethene	912	1440	148	24	20	69-143	F1 F2
Trichlorofluoromethane	912	915	100	21	20	35-150	F2
Vinyl chloride	912	1040	115	18	20	56-150	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213184-1

SDG No.:

Lab Sample ID: CCVIS 480-685901/4 Calibration Date: 10/03/2023 11:22

Instrument ID: HP5973S Calib Start Date: 08/31/2023 15:42

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 08/31/2023 18:25

Lab File ID: S1851.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.604	1.778	0.1000	27.7	25.0	10.9	50.0
Chloromethane	Ave	1.537	1.706	0.1000	27.8	25.0	11.0	20.0
Vinyl chloride	Ave	1.520	1.722	0.1000	28.3	25.0	13.3	20.0
Butadiene	Ave	1.696	1.981		29.2	25.0	16.8	20.0
Bromomethane	Ave	0.9721	1.017	0.1000	26.2	25.0	4.6	50.0
Chloroethane	Ave	1.052	1.046	0.1000	24.8	25.0	-0.6	50.0
Dichlorofluoromethane	Ave	2.148	2.604		30.3	25.0	21.2*	20.0
Trichlorofluoromethane	Ave	1.903	2.148	0.1000	28.2	25.0	12.9	20.0
Ethyl ether	Ave	1.291	1.257		24.3	25.0	-2.6	20.0
Acrolein	Ave	0.1601	0.1380		108	125	-13.8	50.0
1,1-Dichloroethene	Ave	1.013	1.032	0.1000	25.5	25.0	1.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.076	1.190	0.1000	27.6	25.0	10.5	20.0
Acetone	Ave	0.4983	0.7001	0.1000	176	125	40.5	50.0
Iodomethane	Ave	1.769	1.748		24.7	25.0	-1.2	20.0
Carbon disulfide	Ave	3.557	3.642	0.1000	25.6	25.0	2.4	20.0
Allyl chloride	Ave	2.594	2.475		23.9	25.0	-4.6	20.0
Methyl acetate	Ave	1.481	1.343	0.1000	45.3	50.0	-9.3	50.0
Methylene Chloride	Lin1		1.284	0.1000	24.6	25.0	-1.7	20.0
2-Methyl-2-propanol	Ave	0.1481	0.1418		239	250	-4.2	50.0
Methyl tert-butyl ether	Ave	4.320	3.955	0.1000	22.9	25.0	-8.4	20.0
trans-1,2-Dichloroethene	Ave	1.246	1.238	0.1000	24.8	25.0	-0.6	20.0
Acrylonitrile	Ave	0.6716	0.6419		239	250	-4.4	20.0
Hexane	Ave	2.059	2.198		26.7	25.0	6.7	20.0
1,1-Dichloroethane	Ave	2.294	2.373	0.2000	25.9	25.0	3.4	20.0
Vinyl acetate	Ave	3.384	2.879		42.5	50.0	-14.9	20.0
2,2-Dichloropropane	Ave	1.608	1.620		25.2	25.0	0.7	20.0
cis-1,2-Dichloroethene	Ave	1.321	1.324	0.1000	25.1	25.0	0.3	20.0
2-Butanone (MEK)	Ave	0.8169	0.8643	0.1000	132	125	5.8	20.0
Chlorobromomethane	Ave	0.6235	0.6184		24.8	25.0	-0.8	20.0
Tetrahydrofuran	Ave	0.5630	0.5573		49.5	50.0	-1.0	20.0
Chloroform	Ave	2.233	2.242	0.2000	25.1	25.0	0.4	20.0
1,1,1-Trichloroethane	Ave	1.825	1.851	0.1000	25.4	25.0	1.4	20.0
Cyclohexane	Ave	2.358	2.590	0.1000	27.5	25.0	9.8	20.0
Carbon tetrachloride	Ave	1.474	1.394	0.1000	23.6	25.0	-5.4	20.0
1,1-Dichloropropene	Ave	1.683	1.860		27.6	25.0	10.5	20.0
Benzene	Ave	5.058	5.158	0.5000	25.5	25.0	2.0	20.0
Isobutyl alcohol	Ave	0.0587	0.0585		622	625	-0.4	50.0
1,2-Dichloroethane	Ave	1.993	1.987	0.1000	24.9	25.0	-0.3	20.0
n-Heptane	Ave	2.120	2.297		27.1	25.0	8.4	20.0
Trichloroethene	Ave	1.278	1.320	0.2000	25.8	25.0	3.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213184-1

SDG No.:

Lab Sample ID: CCVIS 480-685724/4 Calibration Date: 10/01/2023 08:26

Instrument ID: HP5977M Calib Start Date: 08/28/2023 11:48

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 08/28/2023 14:15

Lab File ID: M11525.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.644	2.076	0.1000	63.2	50.0	26.3	50.0
Chloromethane	Ave	2.125	2.476	0.1000	58.3	50.0	16.5	20.0
Vinyl chloride	Ave	1.746	1.993	0.1000	57.1	50.0	14.2	20.0
Butadiene	Ave	1.805	2.239		62.0	50.0	24.0*	20.0
Bromomethane	Ave	1.002	1.136	0.1000	56.7	50.0	13.3	50.0
Chloroethane	Ave	0.9687	1.204	0.1000	62.1	50.0	24.2	50.0
Trichlorofluoromethane	Ave	1.885	2.292	0.1000	60.8	50.0	21.6*	20.0
Dichlorofluoromethane	Ave	2.187	2.881		65.9	50.0	31.7*	20.0
Ethyl ether	Ave	1.406	1.476		52.5	50.0	5.0	20.0
Acrolein	Ave	0.1577	0.1523		241	250	-3.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.315	1.552	0.1000	59.0	50.0	18.0	20.0
1,1-Dichloroethene	Ave	1.088	1.267	0.1000	58.2	50.0	16.4	20.0
Acetone	Ave	0.5116	0.5745	0.1000	281	250	12.3	50.0
Iodomethane	Ave	2.336	2.470		52.9	50.0	5.8	20.0
Carbon disulfide	Ave	3.736	4.235	0.1000	56.7	50.0	13.4	20.0
Allyl chloride	Ave	2.304	2.559		55.5	50.0	11.0	20.0
Methyl acetate	Ave	1.228	1.352	0.1000	110	100	10.1	50.0
Methylene Chloride	Lin1		1.553	0.1000	55.8	50.0	11.7	20.0
2-Methyl-2-propanol	Ave	0.2033	0.2271		559	500	11.7	50.0
Methyl tert-butyl ether	Ave	4.144	4.228	0.1000	51.0	50.0	2.0	20.0
trans-1,2-Dichloroethene	Ave	1.268	1.456	0.1000	57.4	50.0	14.8	20.0
Acrylonitrile	Ave	0.6383	0.7046		552	500	10.4	20.0
Hexane	Ave	2.151	2.438		56.7	50.0	13.4	20.0
1,1-Dichloroethane	Ave	2.460	2.739	0.2000	55.7	50.0	11.3	20.0
Vinyl acetate	Ave	2.922	3.327		114	100	13.8	20.0
2,2-Dichloropropane	Ave	1.264	1.628		64.4	50.0	28.8*	20.0
cis-1,2-Dichloroethene	Ave	1.486	1.605	0.1000	54.0	50.0	8.0	20.0
2-Butanone (MEK)	Ave	0.7454	0.8248	0.1000	277	250	10.6	20.0
Chlorobromomethane	Ave	0.8021	0.8498		53.0	50.0	5.9	20.0
Tetrahydrofuran	Ave	0.5191	0.5574		107	100	7.4	20.0
Chloroform	Ave	2.344	2.592	0.2000	55.3	50.0	10.6	20.0
1,1,1-Trichloroethane	Ave	1.764	2.149	0.1000	60.9	50.0	21.8*	20.0
Cyclohexane	Ave	2.541	2.994	0.1000	58.9	50.0	17.8	20.0
Carbon tetrachloride	Ave	1.425	1.959	0.1000	68.7	50.0	37.4*	20.0
1,1-Dichloropropene	Ave	1.583	1.803		57.0	50.0	13.9	20.0
Benzene	Ave	4.836	5.277	0.5000	54.6	50.0	9.1	20.0
Isobutyl alcohol	Ave	0.0722	0.0863		1490	1250	19.5	50.0
1,2-Dichloroethane	Ave	1.950	2.094	0.1000	53.7	50.0	7.4	20.0
n-Heptane	Ave	2.070	2.376		57.4	50.0	14.8	20.0
Trichloroethene	Ave	1.269	1.390	0.2000	54.8	50.0	9.5	20.0