Data Usability Summary Report

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

18-046-Aquino Lancaster
Eurofins SDG#480-213134-1
June 11, 2025
Sampling date: 9/27/2023

Prepared by:
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20 Hickory Grove Spur
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#480-213134-1 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-5 (4.1")	480-213134-1
2	EX-6 (6.2")	480-213134-2

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 Continuing Calibration.

Sample: DUSR ID#2 underwent medium level analysis and dilution 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
No MS/MSD was acquired.

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 target analyte was 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 480-685474/4	Carbon tetrachloride	38.1	UJ/J	480-685473, 1

GC/MS PERFORMANCE CHECK

All criteria were met.

Job Narrative
480-213134-1

Receipt
The samples were received on 9/28/2023 3:30 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 was 11.2º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-685474 recovered above the upper control limit for Carbon tetrachloride, Cyclohexane, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: EX-5 (4.1) (480-213134-1).

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: EX-6 (6.2) (480-213134-2). Elevated reporting limits (RLs) are provided.

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

Client Sample Results

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

Job ID: 480-213134-1

Client Sample ID: EX-5 (4.1')

Date Collected: 09/27/23 09:33
Date Received: 09/28/23 15:30

Lab Sample ID: 480-213134-1

Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.8	U	3.8	0.28	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,1,2,2-Tetrachloroethane	3.8	U	3.8	0.62	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8	U	3.8	0.87	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,1,2-Trichloroethane	3.8	U	3.8	0.49	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,1-Dichloroethane	3.8	U	3.8	0.46	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,1-Dichloroethene	3.8	U	3.8	0.46	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,2,4-Trichlorobenzene	3.8	U	3.8	0.23	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,2-Dibromo-3-Chloropropane	3.8	U	3.8	1.9	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,2-Dibromoethane	3.8	U	3.8	0.49	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,2-Dichlorobenzene	3.8	U	3.8	0.30	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,2-Dichloroethane	3.8	U	3.8	0.19	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,2-Dichloropropane	3.8	U	3.8	1.9	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,3-Dichlorobenzene	3.8	U	3.8	0.20	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
1,4-Dichlorobenzene	3.8	U	3.8	0.53	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
2-Butanone (MEK)	19	U	19	1.4	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
2-Hexanone	19	U	19	1.9	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
4-Methyl-2-pentanone (MIBK)	19	U	19	1.2	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Acetone	**9.4**	**J**	19	3.2	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Benzene	3.8	U	3.8	0.19	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Bromodichloromethane	3.8	U	3.8	0.51	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Bromoform	3.8	U	3.8	1.9	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Bromomethane	3.8	U	3.8	0.34	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Carbon disulfide	3.8	U	3.8	1.9	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Carbon tetrachloride	3.8	U	3.8	0.37	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Chlorobenzene	3.8	U	3.8	0.50	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Chloroethane	3.8	U	3.8	0.86	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Chloroform	3.8	U	3.8	0.23	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Chloromethane	3.8	U	3.8	0.23	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
cis-1,2-Dichloroethene	3.8	U	3.8	0.49	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
cis-1,3-Dichloropropene	3.8	U	3.8	0.55	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Cyclohexane	3.8	U	3.8	0.53	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Dibromochloromethane	3.8	U	3.8	0.49	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Dichlorodifluoromethane	3.8	U	3.8	0.31	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Ethylbenzene	3.8	U	3.8	0.26	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Isopropylbenzene	3.8	U	3.8	0.57	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Methyl acetate	19	U	19	2.3	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Methyl tert-butyl ether	3.8	U	3.8	0.37	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Methylcyclohexane	3.8	U	3.8	0.58	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Methylene Chloride	3.8	U	3.8	1.7	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Styrene	3.8	U	3.8	0.19	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Tetrachloroethene	**4.1**		3.8	0.51	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Toluene	3.8	U	3.8	0.29	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
trans-1,2-Dichloroethene	3.8	U	3.8	0.39	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
trans-1,3-Dichloropropene	3.8	U	3.8	1.7	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Trichloroethene	3.8	U	3.8	0.84	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Trichlorofluoromethane	3.8	U	3.8	0.36	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Vinyl chloride	3.8	U	3.8	0.46	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1
Xylenes, Total	7.6	U	7.6	0.64	ug/Kg	☼	09/28/23 16:30	09/29/23 04:22	1

Client Sample ID: EX-5 (4.1')
Lab Sample ID: 480-213134-1

Date Collected: 09/27/23 09:33
Matrix: Solid
Date Received: 09/28/23 15:30
Percent Solids: 85.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*09/28/23 16:30*	*09/29/23 04:22*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*09/28/23 16:30*	*09/29/23 04:22*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 140*	*09/28/23 16:30*	*09/29/23 04:22*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*09/28/23 16:30*	*09/29/23 04:22*	*1*

Client Sample ID: EX-6 (6.2')
Lab Sample ID: 480-213134-2

Date Collected: 09/27/23 10:16
Matrix: Solid
Date Received: 09/28/23 15:30
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	6200	U	6200	1700	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,1,2,2-Tetrachloroethane	6200	U	6200	1000	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,1,2-Trichloro-1,2,2-trifluoroethane	6200	U	6200	3100	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,1,2-Trichloroethane	6200	U	6200	1300	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,1-Dichloroethane	6200	U	6200	1900	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,1-Dichloroethene	6200	U	6200	2100	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,2,4-Trichlorobenzene	6200	U	6200	2300	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,2-Dibromo-3-Chloropropane	6200	U	6200	3100	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,2-Dibromoethane	6200	U	6200	1100	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,2-Dichlorobenzene	6200	U	6200	1600	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,2-Dichloroethane	6200	U	6200	2500	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,2-Dichloropropane	6200	U	6200	1000	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,3-Dichlorobenzene	6200	U	6200	1600	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
1,4-Dichlorobenzene	6200	U	6200	860	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
2-Butanone (MEK)	31000	U	31000	18000	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
2-Hexanone	31000	U	31000	13000	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
4-Methyl-2-pentanone (MIBK)	31000	U	31000	2000	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Acetone	31000	U	31000	25000	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Benzene	6200	U	6200	1200	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Bromodichloromethane	6200	U	6200	1200	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Bromoform	6200	U	6200	3100	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Bromomethane	6200	U	6200	1400	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Carbon disulfide	6200	U	6200	2800	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Carbon tetrachloride	6200	U	6200	1600	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Chlorobenzene	6200	U	6200	810	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Chloroethane	6200	U	6200	1300	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Chloroform	6200	U	6200	4200	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Chloromethane	6200	U	6200	1500	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
cis-1,2-Dichloroethene	**16000**		6200	1700	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
cis-1,3-Dichloropropene	6200	U	6200	1500	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Cyclohexane	6200	U	6200	1400	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Dibromochloromethane	6200	U	6200	3000	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Dichlorodifluoromethane	6200	U	6200	2700	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Ethylbenzene	6200	U	6200	1800	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Isopropylbenzene	6200	U	6200	930	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Methyl acetate	31000	U	31000	2900	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Methyl tert-butyl ether	6200	U	6200	2300	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Methylcyclohexane	6200	U	6200	2900	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Methylene Chloride	6200	U	6200	1200	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100

Client Sample ID: EX-6 (6.2')
Lab Sample ID: 480-213134-2

Date Collected: 09/27/23 10:16
Matrix: Solid
Date Received: 09/28/23 15:30
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	6200	U	6200	1500	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Tetrachloroethene	**370000**		6200	830	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Toluene	6200	U	6200	1700	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
trans-1,2-Dichloroethene	6200	U	6200	1500	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
trans-1,3-Dichloropropene	6200	U	6200	610	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Trichloroethene	**46000**		6200	1700	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Trichlorofluoromethane	6200	U	6200	2900	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Vinyl chloride	6200	U	6200	2100	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100
Xylenes, Total	12000	U	12000	3400	ug/Kg	☼	09/29/23 13:10	09/29/23 19:05	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*53 - 146*	*09/29/23 13:10*	*09/29/23 19:05*	*100*
4-Bromofluorobenzene (Surr)	*100*		*49 - 148*	*09/29/23 13:10*	*09/29/23 19:05*	*100*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*09/29/23 13:10*	*09/29/23 19:05*	*100*
Toluene-d8 (Surr)	*106*		*50 - 149*	*09/29/23 13:10*	*09/29/23 19:05*	*100*

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-213134-1

SDG No.:

Lab Sample ID: CCVIS 480-685474/4 Calibration Date: 09/28/2023 18:39

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: M11493.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	1.637	0.1000	49.8	50.0	-0.4	50.0
Chloromethane	Ave	2.125	2.169	0.1000	51.0	50.0	2.1	20.0
Vinyl chloride	Ave	1.746	1.888	0.1000	54.1	50.0	8.1	20.0
Butadiene	Ave	1.805	2.050		56.8	50.0	13.6	20.0
Bromomethane	Ave	1.002	1.073	0.1000	53.5	50.0	7.0	50.0
Chloroethane	Ave	0.9687	1.152	0.1000	59.5	50.0	18.9	50.0
Trichlorofluoromethane	Ave	1.885	2.283	0.1000	60.5	50.0	21.1*	20.0
Dichlorofluoromethane	Ave	2.187	2.548		58.2	50.0	16.5	20.0
Ethyl ether	Ave	1.406	1.435		51.0	50.0	2.1	20.0
Acrolein	Ave	0.1577	0.1481		235	250	-6.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.315	1.584	0.1000	60.2	50.0	20.4*	20.0
1,1-Dichloroethene	Ave	1.088	1.291	0.1000	59.3	50.0	18.7	20.0
Acetone	Ave	0.5116	0.5398	0.1000	264	250	5.5	50.0
Iodomethane	Ave	2.336	2.466		52.8	50.0	5.6	20.0
Carbon disulfide	Ave	3.736	4.349	0.1000	58.2	50.0	16.4	20.0
Allyl chloride	Ave	2.304	2.552		55.4	50.0	10.7	20.0
Methyl acetate	Ave	1.228	1.284	0.1000	105	100	4.5	50.0
Methylene Chloride	Lin1		1.510	0.1000	54.3	50.0	8.5	20.0
2-Methyl-2-propanol	Ave	0.2033	0.2172		534	500	6.8	50.0
Methyl tert-butyl ether	Ave	4.144	4.129	0.1000	49.8	50.0	-0.4	20.0
trans-1,2-Dichloroethene	Ave	1.268	1.466	0.1000	57.8	50.0	15.6	20.0
Acrylonitrile	Ave	0.6383	0.6702		525	500	5.0	20.0
Hexane	Ave	2.151	2.474		57.5	50.0	15.0	20.0
1,1-Dichloroethane	Ave	2.460	2.744	0.2000	55.8	50.0	11.5	20.0
Vinyl acetate	Ave	2.922	3.260		112	100	11.6	20.0
2,2-Dichloropropane	Ave	1.264	1.698		67.2	50.0	34.4*	20.0
cis-1,2-Dichloroethene	Ave	1.486	1.627	0.1000	54.8	50.0	9.5	20.0
2-Butanone (MEK)	Ave	0.7454	0.7827	0.1000	263	250	5.0	20.0
Chlorobromomethane	Ave	0.8021	0.8506		53.0	50.0	6.0	20.0
Tetrahydrofuran	Ave	0.5191	0.5225		101	100	0.6	20.0
Chloroform	Ave	2.344	2.545	0.2000	54.3	50.0	8.6	20.0
1,1,1-Trichloroethane	Ave	1.764	2.201	0.1000	62.4	50.0	24.8*	20.0
Cyclohexane	Ave	2.541	3.069	0.1000	60.4	50.0	20.8*	20.0
Carbon tetrachloride	Ave	1.425	1.969	0.1000	69.1	50.0	38.1*	20.0
1,1-Dichloropropene	Ave	1.583	1.836		58.0	50.0	16.0	20.0
Benzene	Ave	4.836	5.271	0.5000	54.5	50.0	9.0	20.0
Isobutyl alcohol	Ave	0.0722	0.0817		1410	1250	13.1	50.0
1,2-Dichloroethane	Ave	1.950	2.048	0.1000	52.5	50.0	5.1	20.0
n-Heptane	Ave	2.070	2.430		58.7	50.0	17.4	20.0
Trichloroethene	Ave	1.269	1.399	0.2000	55.1	50.0	10.3	20.0