ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
36-08 REVIEW AVENUE, LONG ISLAND CITY, NEW YORK

Client: Tenen Environmental, New York, New York
SDG: L2026527
Laboratory: Alpha Analytical, Westborough, Massachusetts
Site: 36-08 Review Avenue, Long Island City, New York
Date: August 9, 2024

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	SB-30 (20-22)	L2026527-01	Soil

A Data Usability Summary Review was performed on the analytical data for one soil sample collected on June 1, 2020 by Tenen Environmental at the 36-08 Review Avenue site in Long Island City, New York. The samples were analyzed under Environmental Protection Agency (USEPA) Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions, and the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number QA-HWSS-A-004, March 2022, Standard Operating Procedure for the Validation of Volatile Data;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination

- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for soil samples except for the following.

Sample ID	Date Collected	Date Analyzed	# Days	Qualifier
1	6/1/20	6/27/20	26	J/UJ

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Blank ID	Compound	Conc. ug/kg	Qualifier	Affected Samples
WG1386500-12	Bromomethane	41	None	ND

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- The samples exhibited acceptable surrogate percent recoveries (%R) except for the following.

Sample ID	Surrogate	%R	Qualifier
1	4-Bromofluorobenzene	196%	None - See HT

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- EDS sample 1 was analyzed at a 4X dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/14/24

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Tenen Environmental, LLC	Lab Number	: L2026527
Project Name	: 36-08 REVIEW AVENUE	Project Number	: 36-08 REVIEW AVENUE
Lab ID	: L2026527-01D	Date Collected	: 06/01/20 13:20
Client ID	: SB-30 (20-22)	Date Received	: 06/02/20
Sample Location	: 36-08 REVIEW AVENUE	Date Analyzed	: 06/27/20 17:51
Sample Matrix	: SOIL	Dilution Factor	: 4
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V17200627A20	Instrument ID	: VOA117
Sample Amount	: 5.1 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 92
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	1200	530	U
75-34-3	1,1-Dichloroethane	ND	230	33.	U
67-66-3	Chloroform	ND	340	32.	U
56-23-5	Carbon tetrachloride	ND	230	53.	U
78-87-5	1,2-Dichloropropane	ND	230	29.	U
124-48-1	Dibromochloromethane	ND	230	32.	U
79-00-5	1,1,2-Trichloroethane	ND	230	61.	U
127-18-4	Tetrachloroethene	ND	120	45.	U
108-90-7	Chlorobenzene	ND	120	29.	U
75-69-4	Trichlorofluoromethane	ND	920	160	U
107-06-2	1,2-Dichloroethane	ND	230	59.	U
71-55-6	1,1,1-Trichloroethane	ND	120	38.	U
75-27-4	Bromodichloromethane	ND	120	25.	U
10061-02-6	trans-1,3-Dichloropropene	ND	230	63.	U
10061-01-5	cis-1,3-Dichloropropene	ND	120	36.	U
542-75-6	1,3-Dichloropropene, Total	ND	120	36.	U
563-58-6	1,1-Dichloropropene	ND	120	37.	U
75-25-2	Bromoform	ND	920	57.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	120	38.	U
71-43-2	Benzene	ND	120	38.	U
108-88-3	Toluene	ND	230	120	U
100-41-4	Ethylbenzene	ND	230	32.	U
74-87-3	Chloromethane	ND	920	210	U
74-83-9	Bromomethane	ND	460	130	U
75-01-4	Vinyl chloride	ND	230	77.	U

MV 8/9/24

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CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	460	100	U
75-35-4	1,1-Dichloroethene	ND	230	55.	U
156-60-5	trans-1,2-Dichloroethene	ND	340	32.	U
79-01-6	Trichloroethene	ND	120	32.	U
95-50-1	1,2-Dichlorobenzene	ND	460	33.	U
541-73-1	1,3-Dichlorobenzene	ND	460	34.	U
106-46-7	1,4-Dichlorobenzene	ND	460	39.	U
1634-04-4	Methyl tert butyl ether	ND	460	46.	U
179601-23-1	p/m-Xylene	ND	460	130	U
95-47-6	o-Xylene	ND	230	67.	U
1330-20-7	Xylenes, Total	ND	230	67.	U
156-59-2	cis-1,2-Dichloroethene	ND	230	40.	U
540-59-0	1,2-Dichloroethene, Total	ND	230	32.	U
74-95-3	Dibromomethane	ND	460	55.	U
100-42-5	Styrene	ND	230	45.	U
75-71-8	Dichlorodifluoromethane	ND	2300	210	U
67-64-1	Acetone	ND	2300	1100	U
75-15-0	Carbon disulfide	ND	2300	1000	U
78-93-3	2-Butanone	ND	2300	510	U
108-05-4	Vinyl acetate	ND	2300	490	U
108-10-1	4-Methyl-2-pentanone	ND	2300	290	U
96-18-4	1,2,3-Trichloropropane	ND	460	29.	U
591-78-6	2-Hexanone	ND	2300	270	U
74-97-5	Bromochloromethane	ND	460	47.	U
594-20-7	2,2-Dichloropropane	ND	460	46.	U

MM 8/9/24

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106-93-4	1,2-Dibromoethane	ND	230	64.	U
142-28-9	1,3-Dichloropropane	ND	460	38.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	120	30.	U
108-86-1	Bromobenzene	ND	460	33.	U
104-51-8	n-Butylbenzene	4600	230	38.	
135-98-8	sec-Butylbenzene	4000	230	34.	
98-06-6	tert-Butylbenzene	540	460	27.	
95-49-8	o-Chlorotoluene	ND	460	44.	U
106-43-4	p-Chlorotoluene	ND	460	25.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	690	230	U
87-68-3	Hexachlorobutadiene	ND	920	39.	U
98-82-8	Isopropylbenzene	1500	230	25.	
99-87-6	p-Isopropyltoluene	1400	230	25.	
91-20-3	Naphthalene	1600	920	150	
107-13-1	Acrylonitrile	ND	920	260	U
103-65-1	n-Propylbenzene	4300	230	39.	
87-61-6	1,2,3-Trichlorobenzene	ND	460	74.	U
120-82-1	1,2,4-Trichlorobenzene	ND	460	63.	U
108-67-8	1,3,5-Trimethylbenzene	ND	460	44.	U
95-63-6	1,2,4-Trimethylbenzene	ND	460	77.	U
123-91-1	1,4-Dioxane	ND	18000	8100	U
105-05-5	p-Diethylbenzene	2600	460	41.	
622-96-8	p-Ethyltoluene	ND	460	88.	U
95-93-2	1,2,4,5-Tetramethylbenzene	5700	460	44.	
60-29-7	Ethyl ether	ND	460	78.	U

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CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
110-57-6	trans-1,4-Dichloro-2-butene	ND	1200	330	U

MT 8/9/24