

LAB CHRONICLE

OrderID:	Q1774	OrderDate:	4/10/2025 10:43:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	F11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1774-02	TT-073-IDWGW-2025 0409	Water			04/09/25			04/10/25
			VOCMS Group4	624.1				
Q1774-03	TT-074-IDWGW-2025 0409	Water			04/09/25			04/10/25
			VOCMS Group4	624.1				
Q1774-04	TT-075-IDWGW-2025 0409	Water			04/09/25			04/10/25
			VOCMS Group4	624.1				

Hit Summary Sheet
SW-846

SDG No.: Q1774
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TT-073-IDWGW-20250409							
Q1774-02	TT-073-IDWGW-20250409	Water	Acetone	29.9		4.60	25.0	ug/L
Q1774-02	TT-073-IDWGW-20250409	Water	Trichloroethene	8.70		0.49	5.00	ug/L
			Total Voc :	38.6				
			Total Concentration:	38.6				
Client ID:	TT-074-IDWGW-20250409							
Q1774-03	TT-074-IDWGW-20250409	Water	Acetone	34.2		4.60	25.0	ug/L
Q1774-03	TT-074-IDWGW-20250409	Water	Trichloroethene	7.40		0.49	5.00	ug/L
			Total Voc :	41.6				
			Total Concentration:	41.6				
Client ID:	TT-075-IDWGW-20250409							
Q1774-04	TT-075-IDWGW-20250409	Water	Acetone	21.8	J	4.60	25.0	ug/L
Q1774-04	TT-075-IDWGW-20250409	Water	Trichloroethene	28.0		0.49	5.00	ug/L
Q1774-04	TT-075-IDWGW-20250409	Water	1,1,2-Trichloroethane	0.55	J	0.45	5.00	ug/L
			Total Voc :	50.4				
			Total Concentration:	50.4				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25	
Project:	CTO WE13		Date Received:	04/10/25	
Client Sample ID:	TT-073-IDWGW-20250409		SDG No.:	Q1774	
Lab Sample ID:	Q1774-02		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086252.D	1		04/11/25 16:15	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	29.9		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	UQ	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	8.70		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25	
Project:	CTO WE13		Date Received:	04/10/25	
Client Sample ID:	TT-073-IDWGW-20250409		SDG No.:	Q1774	
Lab Sample ID:	Q1774-02		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086252.D	1		04/11/25 16:15	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25	
Project:	CTO WE13		Date Received:	04/10/25	
Client Sample ID:	TT-073-IDWGW-20250409		SDG No.:	Q1774	
Lab Sample ID:	Q1774-02		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086252.D	1		04/11/25 16:15	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/L
80-62-6	Methyl methacrylate	0.71	U	0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	30.1		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.0		63 - 112	97%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	16700	7.818			
540-36-3	1,4-Difluorobenzene	98000	9.1			
3114-55-4	Chlorobenzene-d5	84100	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25	
Project:	CTO WE13		Date Received:	04/10/25	
Client Sample ID:	TT-074-IDWGW-20250409		SDG No.:	Q1774	
Lab Sample ID:	Q1774-03		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086253.D	1		04/11/25 16:39	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	34.2		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	UQ	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	7.40		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	04/09/25	
Project:	CTO WE13			Date Received:	04/10/25	
Client Sample ID:	TT-074-IDWGW-20250409			SDG No.:	Q1774	
Lab Sample ID:	Q1774-03			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086253.D	1		04/11/25 16:39	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25	
Project:	CTO WE13		Date Received:	04/10/25	
Client Sample ID:	TT-074-IDWGW-20250409		SDG No.:	Q1774	
Lab Sample ID:	Q1774-03		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086253.D	1		04/11/25 16:39	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/L
80-62-6	Methyl methacrylate	0.71	U	0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.6		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	31.0		91 - 112	103%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.6		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	19800	7.818			
540-36-3	1,4-Difluorobenzene	120000	9.094			
3114-55-4	Chlorobenzene-d5	103000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25	
Project:	CTO WE13		Date Received:	04/10/25	
Client Sample ID:	TT-075-IDWGW-20250409		SDG No.:	Q1774	
Lab Sample ID:	Q1774-04		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086254.D	1		04/11/25 17:03	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	21.8	J	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	UQ	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	28.0		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25	
Project:	CTO WE13		Date Received:	04/10/25	
Client Sample ID:	TT-075-IDWGW-20250409		SDG No.:	Q1774	
Lab Sample ID:	Q1774-04		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086254.D	1		04/11/25 17:03	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.55	J	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25	
Project:	CTO WE13		Date Received:	04/10/25	
Client Sample ID:	TT-075-IDWGW-20250409		SDG No.:	Q1774	
Lab Sample ID:	Q1774-04		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086254.D	1		04/11/25 17:03	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/L
80-62-6	Methyl methacrylate	0.71	U	0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.2		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	31.4		91 - 112	105%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.6		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29600	7.806			
540-36-3	1,4-Difluorobenzene	180000	9.1			
3114-55-4	Chlorobenzene-d5	151000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1774-02	TT-073-IDWGW-20250409	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	30.1	100	91	112
		4-Bromofluorobenzene	30	29.0	97	63	112
Q1774-03	TT-074-IDWGW-20250409	1,2-Dichloroethane-d4	30	30.6	102	91	110
		Toluene-d8	30	31.0	103	91	112
		4-Bromofluorobenzene	30	28.6	95	63	112
Q1774-04	TT-075-IDWGW-20250409	1,2-Dichloroethane-d4	30	30.2	101	91	110
		Toluene-d8	30	31.4	105	91	112
		4-Bromofluorobenzene	30	28.6	95	63	112
VN0411WBL01	VN0411WBL01	1,2-Dichloroethane-d4	30	30.7	102	91	110
		Toluene-d8	30	30.8	103	91	112
		4-Bromofluorobenzene	30	28.6	95	63	112
VN0411WBS01	VN0411WBS01	1,2-Dichloroethane-d4	30	30.5	102	91	110
		Toluene-d8	30	30.3	101	91	112
		4-Bromofluorobenzene	30	29.8	99	63	112
VN0411WBSD0	VN0411WBSD01	1,2-Dichloroethane-d4	30	30.2	101	91	110
		Toluene-d8	30	29.8	99	91	112
		4-Bromofluorobenzene	30	29.6	99	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN086249.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0411WBS01	Dichlorodifluoromethane	20	22.7	ug/L	114			72	118	
	Chloromethane	20	21.6	ug/L	108			1	205	
	Vinyl Chloride	20	21.5	ug/L	108			5	195	
	Bromomethane	20	20.4	ug/L	102			15	185	
	Chloroethane	20	21.1	ug/L	106			40	160	
	Trichlorofluoromethane	20	21.5	ug/L	108			50	150	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/L	109			64	127	
	1,1-Dichloroethene	20	21.4	ug/L	107			50	150	
	Acrolein	100	78.0	ug/L	78			60	140	
	Acrylonitrile	100	99.6	ug/L	100			60	140	
	Acetone	100	95.5	ug/L	96			41	148	
	Carbon disulfide	20	21.8	ug/L	109		*	76	107	
	Methyl tert-butyl Ether	20	21.2	ug/L	106			82	114	
	Methyl Acetate	20	20.1	ug/L	101			63	139	
	Methylene Chloride	20	21.2	ug/L	106			60	140	
	trans-1,2-Dichloroethene	20	20.9	ug/L	104			70	130	
	1,1-Dichloroethane	20	21.7	ug/L	109			70	130	
	Cyclohexane	20	21.6	ug/L	108			79	113	
	2-Butanone	100	96.8	ug/L	97			69	129	
	Carbon Tetrachloride	20	20.9	ug/L	104			70	130	
	2,2-Dichloropropane	20	21.1	ug/L	106			62	139	
	cis-1,2-Dichloroethene	20	21.4	ug/L	107			81	112	
	Chloroform	20	21.7	ug/L	109			70	135	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70	130	
	Methylcyclohexane	20	20.9	ug/L	104			79	112	
	1,1-Dichloropropene	20	20.8	ug/L	104			70	139	
	Benzene	20	21.0	ug/L	105			65	135	
	1,2-Dichloroethane	20	20.9	ug/L	104			70	130	
	Trichloroethene	20	20.2	ug/L	101			65	135	
	1,2-Dichloropropane	20	20.9	ug/L	104			35	165	
	Dibromomethane	20	20.0	ug/L	100			72	138	
	Bromodichloromethane	20	20.6	ug/L	103			65	135	
	4-Methyl-2-Pentanone	100	100	ug/L	100			73	131	
	Toluene	20	21.4	ug/L	107			70	130	
	t-1,3-Dichloropropene	20	20.5	ug/L	103			50	150	
	cis-1,3-Dichloropropene	20	20.7	ug/L	104			25	175	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			70	130	
	1,3-Dichloropropane	20	20.9	ug/L	104			70	141	
	2-Hexanone	100	100	ug/L	100			72	128	
	Dibromochloromethane	20	20.4	ug/L	102			70	135	
	1,2-Dibromoethane	20	20.0	ug/L	100			86	114	
	Tetrachloroethene	20	20.9	ug/L	104			70	130	
	Chlorobenzene	20	20.6	ug/L	103			65	135	
	1,1,1,2-Tetrachloroethane	20	21.3	ug/L	106			63	138	
	Hexachloroethane	20	20.4	ug/L	102			70	130	
	Ethyl Benzene	20	21.0	ug/L	105			60	140	
	m/p-Xylenes	40	41.7	ug/L	104			87	111	
	o-Xylene	20	21.1	ug/L	106			87	111	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN086249.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0411WBS01	Styrene	20	20.9	ug/L	104			85	106	
	Bromoform	20	19.9	ug/L	100			70	130	
	Isopropylbenzene	20	21.2	ug/L	106			86	112	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104			60	140	
	1,2,3-Trichloropropane	20	20.3	ug/L	102			61	148	
	Bromobenzene	20	20.6	ug/L	103			59	142	
	N-propylbenzene	20	21.2	ug/L	106			67	139	
	2-Chlorotoluene	20	21.0	ug/L	105			66	138	
	1,3,5-Trimethylbenzene	20	21.4	ug/L	107			66	139	
	4-Chlorotoluene	20	20.6	ug/L	103			66	141	
	tert-Butylbenzene	20	20.7	ug/L	104			56	140	
	1,2,4-Trimethylbenzene	20	20.8	ug/L	104			63	142	
	Sec-butylbenzene	20	21.4	ug/L	107			63	144	
	p-Isopropyltoluene	20	21.3	ug/L	106			57	147	
	1,3-Dichlorobenzene	20	20.4	ug/L	102			70	130	
	1,4-Dichlorobenzene	20	20.4	ug/L	102			65	135	
	n-Butylbenzene	20	21.8	ug/L	109			49	157	
	1,2-Dichlorobenzene	20	20.0	ug/L	100			65	135	
	1,2-Dibromo-3-Chloropropane	20	18.5	ug/L	93			69	122	
	1,2,4-Trichlorobenzene	20	19.7	ug/L	99			61	118	
	Hexachlorobutadiene	20	19.2	ug/L	96			16	187	
	Naphthalene	20	18.4	ug/L	92			45	152	
	1,2,3-Trichlorobenzene	20	19.7	ug/L	99			38	159	
	Methyl iodide	20	21.2	ug/L	106			70	130	
	Methyl methacrylate	20	20.2	ug/L	101			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN086250.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0411WBSD01	Dichlorodifluoromethane	20	20.2	ug/L	101	12		72	118	20
	Chloromethane	20	19.2	ug/L	96	12		1	205	20
	Vinyl Chloride	20	19.3	ug/L	97	11		5	195	20
	Bromomethane	20	19.2	ug/L	96	6		15	185	20
	Chloroethane	20	19.1	ug/L	96	10		40	160	20
	Trichlorofluoromethane	20	19.4	ug/L	97	11		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99	10		64	127	20
	1,1-Dichloroethene	20	19.1	ug/L	96	11		50	150	20
	Acrolein	100	97.7	ug/L	98	23	*	60	140	20
	Acrylonitrile	100	100	ug/L	100	0		60	140	20
	Acetone	100	100	ug/L	100	4		41	148	20
	Carbon disulfide	20	19.0	ug/L	95	14		76	107	20
	Methyl tert-butyl Ether	20	21.1	ug/L	106	0		82	114	20
	Methyl Acetate	20	20.9	ug/L	104	3		63	139	20
	Methylene Chloride	20	19.9	ug/L	100	6		60	140	20
	trans-1,2-Dichloroethene	20	18.8	ug/L	94	10		70	130	20
	1,1-Dichloroethane	20	20.1	ug/L	101	8		70	130	20
	Cyclohexane	20	19.3	ug/L	97	11		79	113	20
	2-Butanone	100	110	ug/L	110	13		69	129	20
	Carbon Tetrachloride	20	20.6	ug/L	103	1		70	130	20
	2,2-Dichloropropane	20	20.6	ug/L	103	3		62	139	20
	cis-1,2-Dichloroethene	20	19.7	ug/L	99	8		81	112	20
	Chloroform	20	19.9	ug/L	100	9		70	135	20
	1,1,1-Trichloroethane	20	20.3	ug/L	102	2		70	130	20
	Methylcyclohexane	20	20.1	ug/L	101	3		79	112	20
	1,1-Dichloropropene	20	20.6	ug/L	103	1		70	139	20
	Benzene	20	20.8	ug/L	104	1		65	135	20
	1,2-Dichloroethane	20	21.4	ug/L	107	3		70	130	20
	Trichloroethene	20	20.5	ug/L	103	2		65	135	20
	1,2-Dichloropropane	20	21.4	ug/L	107	3		35	165	20
	Dibromomethane	20	21.2	ug/L	106	6		72	138	20
	Bromodichloromethane	20	21.2	ug/L	106	3		65	135	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		73	131	20
	Toluene	20	20.7	ug/L	104	3		70	130	20
	t-1,3-Dichloropropene	20	21.4	ug/L	107	4		50	150	20
	cis-1,3-Dichloropropene	20	21.4	ug/L	107	3		25	175	20
	1,1,2-Trichloroethane	20	21.6	ug/L	108	6		70	130	20
	1,3-Dichloropropane	20	21.9	ug/L	110	6		70	141	20
	2-Hexanone	100	110	ug/L	110	10		72	128	20
	Dibromochloromethane	20	21.7	ug/L	109	7		70	135	20
	1,2-Dibromoethane	20	21.5	ug/L	108	8		86	114	20
	Tetrachloroethene	20	20.3	ug/L	102	2		70	130	20
	Chlorobenzene	20	20.6	ug/L	103	0		65	135	20
	1,1,1,2-Tetrachloroethane	20	21.2	ug/L	106	0		63	138	20
	Hexachloroethane	20	19.5	ug/L	98	4		70	130	20
	Ethyl Benzene	20	20.2	ug/L	101	4		60	140	20
	m/p-Xylenes	40	40.7	ug/L	102	2		87	111	20
	o-Xylene	20	20.8	ug/L	104	2		87	111	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN086250.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0411WBSD01	Styrene	20	20.9	ug/L	104	0		85	106	20
	Bromoform	20	20.8	ug/L	104	4		70	130	20
	Isopropylbenzene	20	20.4	ug/L	102	4		86	112	20
	1,1,2,2-Tetrachloroethane	20	21.6	ug/L	108	4		60	140	20
	1,2,3-Trichloropropane	20	21.3	ug/L	106	4		61	148	20
	Bromobenzene	20	20.7	ug/L	104	1		59	142	20
	N-propylbenzene	20	20.3	ug/L	102	4		67	139	20
	2-Chlorotoluene	20	20.1	ug/L	101	4		66	138	20
	1,3,5-Trimethylbenzene	20	20.5	ug/L	103	4		66	139	20
	4-Chlorotoluene	20	20.0	ug/L	100	3		66	141	20
	tert-Butylbenzene	20	19.8	ug/L	99	5		56	140	20
	1,2,4-Trimethylbenzene	20	20.5	ug/L	103	1		63	142	20
	Sec-butylbenzene	20	20.2	ug/L	101	6		63	144	20
	p-Isopropyltoluene	20	20.1	ug/L	101	5		57	147	20
	1,3-Dichlorobenzene	20	20.3	ug/L	102	0		70	130	20
	1,4-Dichlorobenzene	20	20.1	ug/L	101	1		65	135	20
	n-Butylbenzene	20	20.3	ug/L	102	7		49	157	20
	1,2-Dichlorobenzene	20	20.5	ug/L	103	3		65	135	20
	1,2-Dibromo-3-Chloropropane	20	20.5	ug/L	103	10		69	122	20
	1,2,4-Trichlorobenzene	20	20.5	ug/L	103	4		61	118	20
	Hexachlorobutadiene	20	19.2	ug/L	96	0		16	187	20
	Naphthalene	20	20.7	ug/L	104	12		45	152	20
	1,2,3-Trichlorobenzene	20	20.5	ug/L	103	4		38	159	20
	Methyl iodide	20	19.1	ug/L	96	10		70	130	20
	Methyl methacrylate	20	21.1	ug/L	106	5		70	130	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0411WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1774

SAS No.: Q1774 SDG NO.: Q1774

Lab File ID: VN086251.D

Lab Sample ID: VN0411WBL01

Date Analyzed: 04/11/2025

Time Analyzed: 15:40

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0411WBS01	VN0411WBS01	VN086249.D	04/11/2025
VN0411WBSD01	VN0411WBSD01	VN086250.D	04/11/2025
TT-073-IDWGW-20250409	Q1774-02	VN086252.D	04/11/2025
TT-074-IDWGW-20250409	Q1774-03	VN086253.D	04/11/2025
TT-075-IDWGW-20250409	Q1774-04	VN086254.D	04/11/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG NO.: Q1774
Lab File ID: VN086241.D BFB Injection Date: 04/11/2025
Instrument ID: MSVOA_N BFB Injection Time: 09:52
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	51.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	67.2
175	5.0 - 9.0% of mass 174	4.8 (7.1) 1
176	95.0 - 101.0% of mass 174	64.9 (96.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC100	VSTDIC100	VN086242.D	04/11/2025	11:04
VSTDIC050	VSTDIC050	VN086244.D	04/11/2025	11:52
VSTDICCC020	VSTDICCC020	VN086245.D	04/11/2025	12:16
VSTDIC005	VSTDIC005	VN086246.D	04/11/2025	12:40
VN0411WBS01	VN0411WBS01	VN086249.D	04/11/2025	14:38
VN0411WBSD01	VN0411WBSD01	VN086250.D	04/11/2025	15:16
VN0411WBL01	VN0411WBL01	VN086251.D	04/11/2025	15:40
TT-073-IDWGW-20250409	Q1774-02	VN086252.D	04/11/2025	16:15
TT-074-IDWGW-20250409	Q1774-03	VN086253.D	04/11/2025	16:39
TT-075-IDWGW-20250409	Q1774-04	VN086254.D	04/11/2025	17:03
VSTDCCC020EC	VSTDCCC020	VN086255.D	04/11/2025	17:28

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG NO.: Q1774
Lab File ID: VN086245.D Date Analyzed: 04/11/2025
Instrument ID: MSVOA_N Time Analyzed: 12:16
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	30974	7.81	185020	9.10	163907	11.87
UPPER LIMIT	61948	8.312	370040	9.6	327814	12.365
LOWER LIMIT	15487	7.312	92510	8.6	81953.5	11.365
EPA SAMPLE NO.						
TT-073-IDWGW-20250409	16665	7.82	98006	9.10	84075	11.87
TT-074-IDWGW-20250409	19774	7.82	120171	9.09	102960	11.87
TT-075-IDWGW-20250409	29637	7.81	180090	9.10	151244	11.87
VN0411WBL01	32111	7.81	197127	9.10	168421	11.87
VN0411WBS01	32103	7.81	201467	9.10	175632	11.87
VN0411WBSD01	34735	7.81	202525	9.10	180363	11.86

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBL01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086251.D	1		04/11/25 15:40	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBL01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086251.D	1		04/11/25 15:40	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBL01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086251.D	1		04/11/25 15:40	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/L
80-62-6	Methyl methacrylate	0.71	U	0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.7		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	30.8		91 - 112	103%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.6		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32100	7.812			
540-36-3	1,4-Difluorobenzene	197000	9.1			
3114-55-4	Chlorobenzene-d5	168000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBS01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086249.D	1		04/11/25 14:38	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	22.7		0.77	5.00	ug/L
74-87-3	Chloromethane	21.6		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	21.5		0.83	5.00	ug/L
74-83-9	Bromomethane	20.4		0.80	5.00	ug/L
75-00-3	Chloroethane	21.1		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	21.5		0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	21.4		0.76	5.00	ug/L
107-02-8	Acrolein	78.0		6.60	25.0	ug/L
107-13-1	Acrylonitrile	99.6		2.80	25.0	ug/L
67-64-1	Acetone	95.5		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	21.8		0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	21.2		0.77	5.00	ug/L
79-20-9	Methyl Acetate	20.1		0.91	5.00	ug/L
75-09-2	Methylene Chloride	21.2		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.9		0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	21.7		0.68	5.00	ug/L
110-82-7	Cyclohexane	21.6		0.92	5.00	ug/L
78-93-3	2-Butanone	96.8		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	20.9		0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	21.1		0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.4		0.80	5.00	ug/L
67-66-3	Chloroform	21.7		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.7		0.63	5.00	ug/L
108-87-2	Methylcyclohexane	20.9		0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	20.8		0.63	5.00	ug/L
71-43-2	Benzene	21.0		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	20.9		0.50	5.00	ug/L
79-01-6	Trichloroethene	20.2		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBS01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086249.D	1		04/11/25 14:38	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	20.0		0.59	5.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		3.00	25.0	ug/L
108-88-3	Toluene	21.4		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.5		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.7		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.4		0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.9		0.44	5.00	ug/L
591-78-6	2-Hexanone	100		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	20.4		0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.0		0.56	5.00	ug/L
127-18-4	Tetrachloroethene	20.9		0.84	5.00	ug/L
108-90-7	Chlorobenzene	20.6		0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	21.3		0.62	5.00	ug/L
67-72-1	Hexachloroethane	20.4		0.98	5.00	ug/L
100-41-4	Ethyl Benzene	21.0		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	41.7		1.30	10.0	ug/L
95-47-6	o-Xylene	21.1		0.67	5.00	ug/L
100-42-5	Styrene	20.9		0.72	5.00	ug/L
75-25-2	Bromoform	19.9		0.94	5.00	ug/L
98-82-8	Isopropylbenzene	21.2		0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	20.3		0.62	5.00	ug/L
108-86-1	Bromobenzene	20.6		0.59	5.00	ug/L
103-65-1	n-propylbenzene	21.2		0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	21.0		0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	21.4		0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	20.6		0.62	5.00	ug/L
98-06-6	tert-butylbenzene	20.7		0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.8		0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	21.4		0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBS01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086249.D	1		04/11/25 14:38	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	21.3		0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.4		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.4		0.81	5.00	ug/L
104-51-8	n-Butylbenzene	21.8		0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.7		1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	19.2		0.68	5.00	ug/L
91-20-3	Naphthalene	18.4		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.7		1.10	5.00	ug/L
74-88-4	Methyl Iodide	21.2		0.91	5.00	ug/L
80-62-6	Methyl methacrylate	20.2		0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.5		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	30.3		91 - 112	101%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.8		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32100	7.812			
540-36-3	1,4-Difluorobenzene	201000	9.1			
3114-55-4	Chlorobenzene-d5	176000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBSD01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086250.D	1		04/11/25 15:16	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.77	5.00	ug/L
74-87-3	Chloromethane	19.2		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	19.3		0.83	5.00	ug/L
74-83-9	Bromomethane	19.2		0.80	5.00	ug/L
75-00-3	Chloroethane	19.1		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.76	5.00	ug/L
107-02-8	Acrolein	97.7		6.60	25.0	ug/L
107-13-1	Acrylonitrile	100		2.80	25.0	ug/L
67-64-1	Acetone	100		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	19.0		0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	21.1		0.77	5.00	ug/L
79-20-9	Methyl Acetate	20.9		0.91	5.00	ug/L
75-09-2	Methylene Chloride	19.9		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	20.1		0.68	5.00	ug/L
110-82-7	Cyclohexane	19.3		0.92	5.00	ug/L
78-93-3	2-Butanone	110		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	20.6		0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	20.6		0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.7		0.80	5.00	ug/L
67-66-3	Chloroform	19.9		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.63	5.00	ug/L
108-87-2	Methylcyclohexane	20.1		0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	20.6		0.63	5.00	ug/L
71-43-2	Benzene	20.8		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.50	5.00	ug/L
79-01-6	Trichloroethene	20.5		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	21.4		0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBSD01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086250.D	1		04/11/25 15:16	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	21.2		0.59	5.00	ug/L
75-27-4	Bromodichloromethane	21.2		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		3.00	25.0	ug/L
108-88-3	Toluene	20.7		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.4		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.4		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	21.9		0.44	5.00	ug/L
591-78-6	2-Hexanone	110		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	21.7		0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	21.5		0.56	5.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.84	5.00	ug/L
108-90-7	Chlorobenzene	20.6		0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	21.2		0.62	5.00	ug/L
67-72-1	Hexachloroethane	19.5		0.98	5.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	40.7		1.30	10.0	ug/L
95-47-6	o-Xylene	20.8		0.67	5.00	ug/L
100-42-5	Styrene	20.9		0.72	5.00	ug/L
75-25-2	Bromoform	20.8		0.94	5.00	ug/L
98-82-8	Isopropylbenzene	20.4		0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.6		0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	21.3		0.62	5.00	ug/L
108-86-1	Bromobenzene	20.7		0.59	5.00	ug/L
103-65-1	n-propylbenzene	20.3		0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	20.1		0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.5		0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	20.0		0.62	5.00	ug/L
98-06-6	tert-butylbenzene	19.8		0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.5		0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	20.2		0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBSD01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086250.D	1		04/11/25 15:16	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	20.1		0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.3		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.1		0.81	5.00	ug/L
104-51-8	n-Butylbenzene	20.3		0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.5		1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	19.2		0.68	5.00	ug/L
91-20-3	Naphthalene	20.7		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.5		1.10	5.00	ug/L
74-88-4	Methyl Iodide	19.1		0.91	5.00	ug/L
80-62-6	Methyl methacrylate	21.1		0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.2		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.8		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.6		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	34700	7.812			
540-36-3	1,4-Difluorobenzene	203000	9.1			
3114-55-4	Chlorobenzene-d5	180000	11.859			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774

Instrument ID: MSVOA_N Calibration Date(s): 04/11/2025 04/11/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:04 12:40

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN086242.D		RRF050 = VN086244.D		RRF020 = VN086245.D	
		RRF005 = VN086246.D		RRF =		RRF =	
COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
Dichlorodifluoromethane	2.460	2.758	2.325	2.072		2.404	11.9
Chloromethane	3.236	3.617	3.094	3.342		3.322	6.7
Vinyl Chloride	3.116	3.535	3.007	3.000		3.164	8
Bromomethane	1.382	1.638	1.475	1.819		1.578	12.2
Chloroethane	1.887	2.187	1.860	2.059		1.998	7.7
Trichlorofluoromethane	3.329	3.883	3.207	3.311		3.433	8.9
1,1,2-Trichlorotrifluoroethane	2.040	2.381	1.998	2.048		2.117	8.4
1,1-Dichloroethene	2.111	2.464	2.145	2.418		2.284	8
Acrolein	0.387	0.329	0.270	0.481		0.367	24.6
Acrylonitrile	1.263	1.506	1.282	1.397		1.362	8.3
Acetone	0.300	0.389	0.329	0.363		0.345	11.3
Carbon Disulfide	6.053	6.710	6.274	7.165		6.550	7.5
Methyl tert-Butyl Ether	7.709	9.105	7.691	8.471		8.244	8.2
Methyl Acetate	2.942	3.736	2.970	3.256		3.226	11.4
Methylene Chloride	2.407	2.766	2.387	2.858		2.605	9.3
trans-1,2-Dichloroethene	2.231	2.557	2.221	2.616		2.406	8.7
1,1-Dichloroethane	4.380	5.082	4.345	4.460		4.567	7.6
Cyclohexane	0.686	0.784	0.660	0.690		0.705	7.7
2-Butanone	0.278	0.336	0.290	0.287		0.298	8.8
Carbon Tetrachloride	0.484	0.562	0.472	0.458		0.494	9.4
2,2-Dichloropropane	0.651	0.733	0.638	0.623		0.662	7.4
cis-1,2-Dichloroethene	2.674	3.101	2.690	3.000		2.866	7.6
Chloroform	4.120	4.832	4.093	4.374		4.355	7.9
1,1,1-Trichloroethane	0.587	0.679	0.586	0.621		0.618	7.1
Methylcyclohexane	0.656	0.714	0.616	0.650		0.659	6.2
1,1-Dichloropropene	0.527	0.592	0.514	0.516		0.537	6.9
Benzene	1.669	1.880	1.633	1.657		1.710	6.7
1,2-Dichloroethane	0.521	0.591	0.512	0.516		0.535	7
Trichloroethene	0.403	0.463	0.396	0.387		0.413	8.3
1,2-Dichloropropane	0.420	0.475	0.405	0.403		0.425	7.9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774

Instrument ID: MSVOA_N Calibration Date(s): 04/11/2025 04/11/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:04 12:40

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN086242.D		RRF050 = VN086244.D		RRF020 = VN086245.D	
		RRF005 = VN086246.D		RRF =		RRF =	
COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
Dibromomethane	0.261	0.301	0.260	0.277		0.275	6.9
Bromodichloromethane	0.557	0.636	0.565	0.603		0.590	6.2
4-Methyl-2-Pentanone	0.627	0.758	0.671	0.667		0.681	8.1
Toluene	1.908	2.219	1.941	1.981		2.012	7
t-1,3-Dichloropropene	0.650	0.745	0.633	0.641		0.667	7.8
cis-1,3-Dichloropropene	0.696	0.782	0.677	0.670		0.706	7.3
1,1,2-Trichloroethane	0.364	0.420	0.372	0.385		0.385	6.4
1,3-Dichloropropane	0.664	0.764	0.648	0.671		0.687	7.6
2-Hexanone	0.464	0.571	0.497	0.496		0.507	8.9
Dibromochloromethane	0.407	0.469	0.404	0.406		0.422	7.5
1,2-Dibromoethane	0.371	0.429	0.370	0.386		0.389	7.1
Tetrachloroethene	0.432	0.501	0.424	0.415		0.443	8.9
Chlorobenzene	1.156	1.357	1.179	1.224		1.229	7.3
1,1,1,2-Tetrachloroethane	0.384	0.455	0.390	0.393		0.406	8.1
Hexachloroethane	0.274	0.319	0.265	0.265		0.281	9.3
Ethyl Benzene	2.099	2.496	2.140	2.192		2.232	8.1
m/p-Xylenes	0.795	0.939	0.789	0.796		0.830	8.8
o-Xylene	0.777	0.921	0.779	0.787		0.816	8.6
Styrene	1.315	1.563	1.293	1.334		1.376	9.1
Bromoform	0.262	0.312	0.264	0.265		0.276	8.7
Isopropylbenzene	1.910	2.274	1.917	1.947		2.012	8.7
1,1,1,2-Tetrachloroethane	0.500	0.608	0.558	0.626		0.573	9.9
1,2,3-Trichloropropane	0.550	0.662	0.566	0.606		0.596	8.4
Bromobenzene	0.422	0.505	0.426	0.431		0.446	8.8
n-propylbenzene	2.311	2.708	2.229	2.256		2.376	9.4
2-Chlorotoluene	1.403	1.687	1.412	1.472		1.494	8.9
1,3,5-Trimethylbenzene	1.586	1.865	1.574	1.587		1.653	8.5
4-Chlorotoluene	1.420	1.694	1.383	1.470		1.492	9.4
tert-butylbenzene	1.332	1.584	1.349	1.457		1.430	8.1
1,2,4-Trimethylbenzene	1.607	1.912	1.600	1.586		1.676	9.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774
 Instrument ID: MSVOA_N Calibration Date(s): 04/11/2025 04/11/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:04 12:40
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN086242.D		RRF050 = VN086244.D		RRF020 = VN086245.D	
		RRF005 = VN086246.D		RRF =		RRF =	
COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
sec-Butylbenzene	1.924	2.234	1.909	1.915		1.995	8
p-Isopropyltoluene	1.621	1.891	1.584	1.562		1.664	9.2
1,3-Dichlorobenzene	0.785	0.958	0.773	0.798		0.829	10.5
1,4-Dichlorobenzene	0.785	0.950	0.777	0.813		0.831	9.7
n-Butylbenzene	1.490	1.679	1.420	1.416		1.502	8.2
1,2-Dichlorobenzene	0.761	0.943	0.778	0.791		0.818	10.3
1,2-Dibromo-3-Chloropropane	0.116	0.148	0.128	0.129		0.130	10.3
1,2,4-Trichlorobenzene	0.371	0.439	0.402	0.380		0.398	7.5
Hexachlorobutadiene	0.151	0.176	0.167	0.194		0.172	10.4
Naphthalene	1.396	1.756	1.548	1.578		1.569	9.4
1,2,3-Trichlorobenzene	0.371	0.439	0.402	0.380		0.398	7.5
1,2-Dichloroethane-d4	2.882	2.916	2.904	3.003		2.926	1.8
Toluene-d8	1.673	1.674	1.718	1.710		1.694	1.4
4-Bromofluorobenzene	0.600	0.607	0.594	0.589		0.597	1.3
Methyl Iodide	2.474	2.976	2.463	2.589		2.626	9.2
Methyl methacrylate	0.468	0.558	0.471	0.467		0.491	9

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774

Instrument ID: MSVOA_N Calibration Date/Time: 04/11/2025 17:28

Lab File ID: VN086255.D Init. Calib. Date(s): 04/11/2025 04/11/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:04 12:40

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.404	2.329		-3.12	50
Chloromethane	3.322	3.290		-0.96	50
Vinyl Chloride	3.164	3.093	0.1	-2.24	50
Bromomethane	1.578	1.524	0.1	-3.42	50
Chloroethane	1.998	1.989		-0.45	50
Trichlorofluoromethane	3.433	3.320		-3.29	50
1,1,2-Trichlorotrifluoroethane	2.117	1.981		-6.42	50
1,1-Dichloroethene	2.284	2.142	0.1	-6.22	50
Acrolein	0.367	0.303		-17.44	50
Acrylonitrile	1.362	1.283		-5.8	50
Acetone	0.345	0.315		-8.7	50
Carbon Disulfide	6.550	6.271		-4.26	50
Methyl tert-Butyl Ether	8.244	7.740		-6.11	50
Methyl Acetate	3.226	2.973		-7.84	50
Methylene Chloride	2.605	2.476		-4.95	50
trans-1,2-Dichloroethene	2.406	2.267		-5.78	50
1,1-Dichloroethane	4.567	4.406	0.2	-3.53	50
Cyclohexane	0.705	0.688		-2.41	50
2-Butanone	0.298	0.289		-3.02	50
Carbon Tetrachloride	0.494	0.480	0.1	-2.83	50
2,2-Dichloropropane	0.662	0.630		-4.83	50
cis-1,2-Dichloroethene	2.866	2.731		-4.71	50
Chloroform	4.355	4.229	0.2	-2.89	50
1,1,1-Trichloroethane	0.618	0.613	0.1	-0.81	50
Methylcyclohexane	0.659	0.623		-5.46	50
1,1-Dichloropropene	0.537	0.536		-0.19	50
Benzene	1.710	1.702	0.5	-0.47	50
1,2-Dichloroethane	0.535	0.527	0.1	-1.5	50
Trichloroethene	0.413	0.390	0.3	-5.57	50
1,2-Dichloropropane	0.425	0.419		-1.41	50
Dibromomethane	0.275	0.273		-0.73	50
Bromodichloromethane	0.590	0.577	0.2	-2.2	50
4-Methyl-2-Pentanone	0.681	0.675		-0.88	50
Toluene	2.012	2.024	0.4	0.6	50
t-1,3-Dichloropropene	0.667	0.639	0.1	-4.2	50
cis-1,3-Dichloropropene	0.706	0.700	0.2	-0.85	50
1,1,2-Trichloroethane	0.385	0.372	0.1	-3.38	50
1,3-Dichloropropane	0.687	0.678		-1.31	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774

Instrument ID: MSVOA_N Calibration Date/Time: 04/11/2025 17:28

Lab File ID: VN086255.D Init. Calib. Date(s): 04/11/2025 04/11/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:04 12:40

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.507	0.497		-1.97	50
Dibromochloromethane	0.422	0.409	0.1	-3.08	50
1,2-Dibromoethane	0.389	0.381		-2.06	50
Tetrachloroethene	0.443	0.436	0.2	-1.58	50
Chlorobenzene	1.229	1.213	0.5	-1.3	50
1,1,1,2-Tetrachloroethane	0.406	0.409		0.74	50
Hexachloroethane	0.281	0.270		-3.91	50
Ethyl Benzene	2.232	2.191	0.1	-1.84	50
m/p-Xylenes	0.830	0.800	0.3	-3.61	50
o-Xylene	0.816	0.819	0.3	0.37	50
Styrene	1.376	1.320	0.3	-4.07	50
Bromoform	0.276	0.256	0.1	-7.25	50
Isopropylbenzene	2.012	1.938		-3.68	50
1,1,2,2-Tetrachloroethane	0.573	0.586	0.3	2.27	50
1,2,3-Trichloropropane	0.596	0.572		-4.03	50
Bromobenzene	0.446	0.429		-3.81	50
n-propylbenzene	2.376	2.251		-5.26	50
2-Chlorotoluene	1.494	1.457		-2.48	50
1,3,5-Trimethylbenzene	1.653	1.573		-4.84	50
4-Chlorotoluene	1.492	1.416		-5.09	50
tert-butylbenzene	1.430	1.362		-4.76	50
1,2,4-Trimethylbenzene	1.676	1.585		-5.43	50
sec-Butylbenzene	1.995	1.884		-5.56	50
p-Isopropyltoluene	1.664	1.531		-7.99	50
1,3-Dichlorobenzene	0.829	0.766	0.2	-7.6	50
1,4-Dichlorobenzene	0.831	0.752	0.2	-9.51	50
n-Butylbenzene	1.502	1.334		-11.19	50
1,2-Dichlorobenzene	0.818	0.769	0.2	-5.99	50
1,2-Dibromo-3-Chloropropane	0.130	0.116		-10.77	50
1,2,4-Trichlorobenzene	0.398	0.331	0.2	-16.83	50
Hexachlorobutadiene	0.172	0.126		-26.74	50
Naphthalene	1.569	1.309		-16.57	50
1,2,3-Trichlorobenzene	0.398	0.331		-16.83	50
1,2-Dichloroethane-d4	2.926	2.837	0.01	-3.04	50
Toluene-d8	1.694	1.736	0.01	2.48	50
4-Bromofluorobenzene	0.597	0.593	0.2	-0.67	50
Methyl Iodide	2.626	2.513		-4.3	50
Methyl methacrylate	0.491	0.468		-4.68	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.