

LAB CHRONICLE

OrderID:	Q1121	OrderDate:	1/17/2025 7:55:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1121-01	RW10A-20250116	Water	VOCMS Group1	8260-Low	01/16/25		01/17/25	01/16/25

Hit Summary Sheet
SW-846

SDG No.: Q1121
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	RW10A-20250116								
Q1121-01	RW10A-20250116	Water	Methyl tert-butyl Ether	0.72	J	0.16	0.50	1.00	ug/L
			Total Voc :	0.72					
			Total Concentration:	0.72					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/16/25	
Client Sample ID:	RW10A-20250116		SDG No.:	Q1121	
Lab Sample ID:	Q1121-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085487.D	1		01/17/25 12:25	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.72	J	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/16/25	
Client Sample ID:	RW10A-20250116		SDG No.:	Q1121	
Lab Sample ID:	Q1121-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085487.D	1		01/17/25 12:25	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.3		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.6		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	193000	8.224				
540-36-3	1,4-Difluorobenzene	346000	9.1				
3114-55-4	Chlorobenzene-d5	294000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	01/16/25	
Client Sample ID:	RW10A-20250116		SDG No.:	Q1121	
Lab Sample ID:	Q1121-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085487.D	1		01/17/25 12:25	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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.: Q1121

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1121-01	RW10A-20250116	1,2-Dichloroethane-d4	50	52.3	105	81	118
		Dibromofluoromethane	50	51.0	102	80	119
		Toluene-d8	50	49.6	99	89	112
		4-Bromofluorobenzene	50	46.4	93	85	114
VN0117WBL01	VN0117WBL01	1,2-Dichloroethane-d4	50	53.0	106	81	118
		Dibromofluoromethane	50	51.7	103	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	47.3	95	85	114
VN0117WBS01	VN0117WBS01	1,2-Dichloroethane-d4	50	50.6	101	81	118
		Dibromofluoromethane	50	52.1	104	80	119
		Toluene-d8	50	52.9	106	89	112
		4-Bromofluorobenzene	50	52.3	105	85	114
VN0117WBSD0	VN0117WBSD01	1,2-Dichloroethane-d4	50	52.6	105	81	118
		Dibromofluoromethane	50	52.1	104	80	119
		Toluene-d8	50	53.3	107	89	112
		4-Bromofluorobenzene	50	54.2	108	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1121

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085483.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0117WBS01	Chloromethane	20	18.1	ug/L	91			50	139	
	Vinyl chloride	20	18.0	ug/L	90			58	137	
	Bromomethane	20	18.7	ug/L	94			53	141	
	Chloroethane	20	17.6	ug/L	88			60	138	
	Trichlorofluoromethane	20	18.8	ug/L	94			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.1	ug/L	96			70	136	
	1,1-Dichloroethene	20	18.5	ug/L	93			71	131	
	Acetone	100	88.1	ug/L	88			39	160	
	Carbon disulfide	20	17.0	ug/L	85			64	133	
	Methyl tert-butyl Ether	20	19.1	ug/L	96			71	124	
	Methylene Chloride	20	18.7	ug/L	94			74	124	
	trans-1,2-Dichloroethene	20	18.0	ug/L	90			75	124	
	1,1-Dichloroethane	20	19.0	ug/L	95			77	125	
	2-Butanone	100	90.2	ug/L	90			56	143	
	Carbon Tetrachloride	20	19.2	ug/L	96			72	136	
	cis-1,2-Dichloroethene	20	18.7	ug/L	94			78	123	
	Chloroform	20	18.8	ug/L	94			79	124	
	1,1,1-Trichloroethane	20	18.9	ug/L	95			74	131	
	Methylcyclohexane	20	19.0	ug/L	95			72	132	
	Benzene	20	19.2	ug/L	96			79	120	
	1,2-Dichloroethane	20	19.1	ug/L	96			73	128	
	Trichloroethene	20	18.6	ug/L	93			79	123	
	1,2-Dichloropropane	20	19.4	ug/L	97			78	122	
	Bromodichloromethane	20	19.7	ug/L	99			79	125	
	4-Methyl-2-Pentanone	100	96.0	ug/L	96			67	130	
	Toluene	20	20.1	ug/L	101			80	121	
	t-1,3-Dichloropropene	20	19.7	ug/L	99			73	127	
	cis-1,3-Dichloropropene	20	19.6	ug/L	98			75	124	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			80	119	
	2-Hexanone	100	96.0	ug/L	96			57	139	
	Dibromochloromethane	20	19.2	ug/L	96			74	126	
	Tetrachloroethene	20	19.7	ug/L	99			74	129	
	Chlorobenzene	20	19.4	ug/L	97			82	118	
	Ethyl Benzene	20	19.8	ug/L	99			79	121	
	m/p-Xylenes	40	41.1	ug/L	103			80	121	
	o-Xylene	20	20.1	ug/L	101			78	122	
	Styrene	20	20.6	ug/L	103			78	123	
	Bromoform	20	20.4	ug/L	102			66	130	
	Isopropylbenzene	20	20.3	ug/L	102			72	131	
	1,1,2,2-Tetrachloroethane	20	18.6	ug/L	93			71	121	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			80	119	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			79	118	
	1,2-Dichlorobenzene	20	18.9	ug/L	95			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1121

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085484.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0117WBSD01	Chloromethane	20	18.8	ug/L	94	3		50	139	20
	Vinyl chloride	20	18.9	ug/L	95	5		58	137	20
	Bromomethane	20	20.3	ug/L	102	8		53	141	20
	Chloroethane	20	20.4	ug/L	102	15		60	138	20
	Trichlorofluoromethane	20	20.0	ug/L	100	6		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/L	101	5		70	136	20
	1,1-Dichloroethene	20	19.9	ug/L	100	7		71	131	20
	Acetone	100	98.7	ug/L	99	12		39	160	20
	Carbon disulfide	20	18.1	ug/L	91	7		64	133	20
	Methyl tert-butyl Ether	20	21.6	ug/L	108	12		71	124	20
	Methylene Chloride	20	20.6	ug/L	103	9		74	124	20
	trans-1,2-Dichloroethene	20	19.8	ug/L	99	10		75	124	20
	1,1-Dichloroethane	20	20.2	ug/L	101	6		77	125	20
	2-Butanone	100	100	ug/L	100	11		56	143	20
	Carbon Tetrachloride	20	20.2	ug/L	101	5		72	136	20
	cis-1,2-Dichloroethene	20	20.5	ug/L	103	9		78	123	20
	Chloroform	20	20.5	ug/L	103	9		79	124	20
	1,1,1-Trichloroethane	20	20.2	ug/L	101	6		74	131	20
	Methylcyclohexane	20	19.9	ug/L	100	5		72	132	20
	Benzene	20	20.6	ug/L	103	7		79	120	20
	1,2-Dichloroethane	20	21.2	ug/L	106	10		73	128	20
	Trichloroethene	20	19.9	ug/L	100	7		79	123	20
	1,2-Dichloropropane	20	20.5	ug/L	103	6		78	122	20
	Bromodichloromethane	20	21.5	ug/L	108	9		79	125	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	14		67	130	20
	Toluene	20	21.4	ug/L	107	6		80	121	20
	t-1,3-Dichloropropene	20	21.3	ug/L	106	7		73	127	20
	cis-1,3-Dichloropropene	20	21.4	ug/L	107	9		75	124	20
	1,1,2-Trichloroethane	20	21.6	ug/L	108	11		80	119	20
	2-Hexanone	100	110	ug/L	110	14		57	139	20
	Dibromochloromethane	20	21.0	ug/L	105	9		74	126	20
	Tetrachloroethene	20	20.9	ug/L	104	5		74	129	20
	Chlorobenzene	20	20.7	ug/L	104	7		82	118	20
	Ethyl Benzene	20	20.6	ug/L	103	4		79	121	20
	m/p-Xylenes	40	43.2	ug/L	108	5		80	121	20
	o-Xylene	20	21.1	ug/L	106	5		78	122	20
	Styrene	20	22.0	ug/L	110	7		78	123	20
	Bromoform	20	21.5	ug/L	108	6		66	130	20
	Isopropylbenzene	20	21.0	ug/L	105	3		72	131	20
	1,1,2,2-Tetrachloroethane	20	20.0	ug/L	100	7		71	121	20
	1,3-Dichlorobenzene	20	20.6	ug/L	103	5		80	119	20
	1,4-Dichlorobenzene	20	19.6	ug/L	98	3		79	118	20
	1,2-Dichlorobenzene	20	19.1	ug/L	96	1		80	119	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0117WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1121

SAS No.: Q1121 SDG NO.: Q1121

Lab File ID: VN085482.D

Lab Sample ID: VN0117WBL01

Date Analyzed: 01/17/2025

Time Analyzed: 10:16

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
VN0117WBS01	VN0117WBS01	VN085483.D	01/17/2025
VN0117WBSD01	VN0117WBSD01	VN085484.D	01/17/2025
RW10A-20250116	Q1121-01	VN085487.D	01/17/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1121 SAS No.: Q1121 SDG NO.: Q1121
Lab File ID: VN085437.D BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_N BFB Injection Time: 14:22
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	22.3
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	74.1 (97.4) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 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
VSTDICC100	VSTDICC100	VN085438.D	01/14/2025	14:56
VSTDICCC050	VSTDICCC050	VN085439.D	01/14/2025	15:19
VSTDICC020	VSTDICC020	VN085440.D	01/14/2025	15:43
VSTDICC010	VSTDICC010	VN085441.D	01/14/2025	16:07
VSTDICC005	VSTDICC005	VN085442.D	01/14/2025	16:31
VSTDICC001	VSTDICC001	VN085443.D	01/14/2025	17:19

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1121 SAS No.: Q1121 SDG NO.: Q1121
Lab File ID: VN085479.D BFB Injection Date: 01/17/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:18
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	22.2
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	72.9
175	5.0 - 9.0% of mass 174	5.4 (7.4) 1
176	95.0 - 101.0% of mass 174	70.7 (97) 1
177	5.0 - 9.0% of mass 176	5 (7) 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
VSTDCCC050	VSTDCCC050	VN085480.D	01/17/2025	09:06
VN0117WBL01	VN0117WBL01	VN085482.D	01/17/2025	10:16
VN0117WBS01	VN0117WBS01	VN085483.D	01/17/2025	10:39
VN0117WBSD01	VN0117WBSD01	VN085484.D	01/17/2025	11:13
RW10A-20250116	Q1121-01	VN085487.D	01/17/2025	12:25
VSTDCCC050EC	VSTDCCC050	VN085505.D	01/17/2025	19:36

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1121 SAS No.: Q1121 SDG NO.: Q1121
Lab File ID: VN085480.D Date Analyzed: 01/17/2025
Instrument ID: MSVOA_N Time Analyzed: 09:06
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	217984	8.22	352497	9.09	315106	11.86
UPPER LIMIT	435968	8.718	704994	9.594	630212	12.359
LOWER LIMIT	108992	7.718	176249	8.594	157553	11.359
EPA SAMPLE NO.						
RW10A-20250116	192512	8.22	345952	9.10	293896	11.87
VN0117WBL01	196554	8.22	358389	9.10	314818	11.86
VN0117WBS01	209125	8.22	351707	9.09	304036	11.86
VN0117WBSD01	183955	8.22	311569	9.10	273237	11.86

IS1 = Pentafluorobenzene
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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1121 SAS No.: Q1121 SDG NO.: Q1121
Lab File ID: VN085480.D Date Analyzed: 01/17/2025
Instrument ID: MSVOA_N Time Analyzed: 09:06
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	155506	13.788				
UPPER LIMIT	311012	14.288				
LOWER LIMIT	77753	13.288				
EPA SAMPLE NO.						
RW10A-20250116	115974	13.79				
VN0117WBL01	125050	13.79				
VN0117WBS01	143650	13.79				
VN0117WBSD01	132750	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0117WBL01		SDG No.:	Q1121
Lab Sample ID:	VN0117WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085482.D	1		01/17/25 10:16	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0117WBL01		SDG No.:	Q1121
Lab Sample ID:	VN0117WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085482.D	1		01/17/25 10:16	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.0		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		85 - 114		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	197000	8.224				
540-36-3	1,4-Difluorobenzene	358000	9.1				
3114-55-4	Chlorobenzene-d5	315000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.788				

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:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0117WBS01		SDG No.:	Q1121
Lab Sample ID:	VN0117WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085483.D	1		01/17/25 10:39	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.1		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.0		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.7		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.6		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.26	0.75	1.00	ug/L
67-64-1	Acetone	88.1		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.0		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.1		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.7		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.0		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.0		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	90.2		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.7		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	18.8		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.9		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.0		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.2		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.1		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.6		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.4		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.7		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	96.0		0.75	2.50	5.00	ug/L
108-88-3	Toluene	20.1		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.7		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.4		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	96.0		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0117WBS01		SDG No.:	Q1121
Lab Sample ID:	VN0117WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085483.D	1		01/17/25 10:39	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.2		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.4		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.1		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.4		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.3		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.9		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.6		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	52.9		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	209000	8.218				
540-36-3	1,4-Difluorobenzene	352000	9.094				
3114-55-4	Chlorobenzene-d5	304000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.788				

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:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0117WBSD01		SDG No.:	Q1121
Lab Sample ID:	VN0117WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085484.D	1		01/17/25 11:13	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.8		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	20.3		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.4		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.0		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	98.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.1		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.6		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	20.6		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.8		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	100		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.2		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.5		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	20.5		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.2		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.9		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.6		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	21.5		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	2.50	5.00	ug/L
108-88-3	Toluene	21.4		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.4		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0117WBSD01		SDG No.:	Q1121
Lab Sample ID:	VN0117WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085484.D	1		01/17/25 11:13	VN011725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	21.0		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.9		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.7		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.6		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	43.2		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	21.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	22.0		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	21.5		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	21.0		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.6		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.6		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.6		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	53.3		89 - 112		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	184000	8.224				
540-36-3	1,4-Difluorobenzene	312000	9.1				
3114-55-4	Chlorobenzene-d5	273000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.788				

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.: Q1121 SAS No.: Q1121 SDG No.: Q1121

Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19

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

LAB FILE ID:		RRF100 = VN085438.D		RRF050 = VN085439.D		RRF020 = VN085440.D		
		RRF010 = VN085441.D		RRF005 = VN085442.D		RRF001 = VN085443.D		
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD
Chloromethane	0.680	0.680	0.727	0.693	0.779	0.839	0.733	8.8
Vinyl Chloride	0.697	0.686	0.727	0.711	0.781	0.819	0.737	7.1
Bromomethane	0.392	0.417	0.454	0.437	0.525		0.445	11.3
Chloroethane	0.435	0.424	0.468	0.429	0.505	0.542	0.467	10.3
Trichlorofluoromethane	1.046	0.997	1.097	1.040	1.077	1.157	1.069	5.1
1,1,2-Trichlorotrifluoroethane	0.590	0.542	0.609	0.587	0.639	0.646	0.602	6.4
1,1-Dichloroethene	0.548	0.533	0.556	0.526	0.559	0.497	0.537	4.3
Acetone	0.238	0.252	0.252	0.247	0.269	0.306	0.261	9.3
Carbon Disulfide	1.555	1.477	1.647	1.537	1.719	1.978	1.652	11
Methyl tert-butyl Ether	1.834	1.873	1.853	1.664	1.685	1.545	1.742	7.5
Methylene Chloride	0.629	0.629	0.658	0.606	0.696	0.656	0.646	4.9
trans-1,2-Dichloroethene	0.571	0.555	0.574	0.539	0.569	0.632	0.573	5.5
1,1-Dichloroethane	1.164	1.170	1.206	1.100	1.226	1.204	1.178	3.8
2-Butanone	0.378	0.390	0.398	0.363	0.387	0.386	0.384	3.1
Carbon Tetrachloride	0.574	0.530	0.579	0.529	0.565	0.567	0.557	4
cis-1,2-Dichloroethene	0.691	0.683	0.715	0.639	0.669	0.655	0.675	4
Chloroform	1.197	1.175	1.241	1.169	1.253	1.273	1.218	3.6
1,1,1-Trichloroethane	1.053	1.016	1.091	1.000	1.148	1.102	1.068	5.2
Methylcyclohexane	0.564	0.463	0.477	0.407	0.437	0.397	0.457	13.3
Benzene	1.551	1.449	1.527	1.376	1.474	1.400	1.463	4.7
1,2-Dichloroethane	0.569	0.547	0.575	0.522	0.574	0.517	0.551	4.8
Trichloroethene	0.362	0.324	0.352	0.310	0.343	0.352	0.341	5.8
1,2-Dichloropropane	0.390	0.371	0.388	0.334	0.388	0.371	0.374	5.7
Bromodichloromethane	0.590	0.559	0.579	0.514	0.569	0.484	0.549	7.5
4-Methyl-2-Pentanone	0.499	0.492	0.495	0.432	0.443	0.380	0.457	10.3
Toluene	0.964	0.870	0.919	0.808	0.835	0.690	0.848	11.3
t-1,3-Dichloropropene	0.594	0.551	0.544	0.481	0.527	0.416	0.519	12
cis-1,3-Dichloropropene	0.623	0.588	0.601	0.527	0.538	0.450	0.554	11.4
1,1,2-Trichloroethane	0.348	0.340	0.353	0.309	0.349	0.314	0.335	5.7
2-Hexanone	0.358	0.357	0.353	0.298	0.302	0.261	0.321	12.6

* 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.: Q1121 SAS No.: Q1121 SDG No.: Q1121

Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19

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

LAB FILE ID:		RRF100 = VN085438.D		RRF050 = VN085439.D		RRF020 = VN085440.D			
		RRF010 = VN085441.D		RRF005 = VN085442.D		RRF001 = VN085443.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dibromochloromethane	0.430	0.414	0.412	0.368	0.420	0.386	0.405	5.8	
Tetrachloroethene	0.351	0.322	0.365	0.338	0.346	0.323	0.341	4.9	
Chlorobenzene	1.133	1.076	1.154	1.047	1.110	1.051	1.095	4	
Ethyl Benzene	2.072	1.867	1.940	1.685	1.709	1.430	1.784	12.7	
m/p-Xylenes	0.775	0.707	0.750	0.615	0.616	0.492	0.659	16	
o-Xylene	0.738	0.681	0.713	0.584	0.582	0.482	0.630	15.5	
Styrene	1.271	1.173	1.186	0.956	0.929	0.742	1.043	19.2	
Bromoform	0.311	0.311	0.312	0.273	0.284	0.235	0.288	10.6	
Isopropylbenzene	3.922	3.448	3.681	3.272	3.157	2.766	3.375	12.1	
1,1,2,2-Tetrachloroethane	1.121	1.145	1.187	1.157	1.228	1.314	1.192	5.9	
1,3-Dichlorobenzene	1.720	1.565	1.701	1.574	1.656	1.526	1.624	4.9	
1,4-Dichlorobenzene	1.706	1.562	1.713	1.607	1.743	1.767	1.683	4.8	
1,2-Dichlorobenzene	1.611	1.555	1.654	1.532	1.600	1.766	1.620	5.2	
1,2-Dichloroethane-d4	0.774	0.831	0.754	0.762	0.914		0.807	8.3	
Dibromofluoromethane	0.359	0.358	0.335	0.310	0.373		0.347	7.1	
Toluene-d8	1.339	1.267	1.207	1.076	1.274		1.232	8.1	
4-Bromofluorobenzene	0.475	0.449	0.410	0.357	0.417		0.422	10.6	

* 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.: Q1121 SAS No.: Q1121 SDG No.: Q1121

Instrument ID: MSVOA_N Calibration Date/Time: 01/17/2025 09:06

Lab File ID: VN085480.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.733	0.683	0.1	-6.82	20
Vinyl Chloride	0.737	0.682		-7.46	20
Bromomethane	0.445	0.415		-6.74	20
Chloroethane	0.467	0.463		-0.86	20
Trichlorofluoromethane	1.069	1.061		-0.75	20
1,1,2-Trichlorotrifluoroethane	0.602	0.603		0.17	20
1,1-Dichloroethene	0.537	0.542		0.93	20
Acetone	0.261	0.244		-6.51	20
Carbon Disulfide	1.652	1.499		-9.26	20
Methyl tert-butyl Ether	1.742	1.821		4.53	20
Methylene Chloride	0.646	0.626		-3.1	20
trans-1,2-Dichloroethene	0.573	0.565		-1.4	20
1,1-Dichloroethane	1.178	1.171	0.1	-0.59	20
2-Butanone	0.384	0.350		-8.85	20
Carbon Tetrachloride	0.557	0.584		4.85	20
cis-1,2-Dichloroethene	0.675	0.685		1.48	20
Chloroform	1.218	1.213		-0.41	20
1,1,1-Trichloroethane	1.068	1.081		1.22	20
Methylcyclohexane	0.457	0.538		17.72	20
Benzene	1.463	1.537		5.06	20
1,2-Dichloroethane	0.551	0.574		4.17	20
Trichloroethene	0.341	0.349		2.35	20
1,2-Dichloropropane	0.374	0.387		3.48	20
Bromodichloromethane	0.549	0.594		8.2	20
4-Methyl-2-Pentanone	0.457	0.464		1.53	20
Toluene	0.848	0.951		12.15	20
t-1,3-Dichloropropene	0.519	0.585		12.72	20
cis-1,3-Dichloropropene	0.554	0.621		12.09	20
1,1,2-Trichloroethane	0.335	0.359		7.16	20
2-Hexanone	0.321	0.330		2.8	20
Dibromochloromethane	0.405	0.427		5.43	20
Tetrachloroethene	0.341	0.367		7.63	20
Chlorobenzene	1.095	1.136	0.3	3.74	20
Ethyl Benzene	1.784	2.030		13.79	20
m/p-Xylenes	0.659	0.770		16.84	20
o-Xylene	0.630	0.722		14.6	20
Styrene	1.043	1.239		18.79	20
Bromoform	0.288	0.307	0.1	6.6	20

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.: Q1121 SAS No.: Q1121 SDG No.: Q1121

Instrument ID: MSVOA_N Calibration Date/Time: 01/17/2025 09:06

Lab File ID: VN085480.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.375	3.839		13.75	20
1,1,2,2-Tetrachloroethane	1.192	1.098	0.3	-7.89	20
1,3-Dichlorobenzene	1.624	1.681		3.51	20
1,4-Dichlorobenzene	1.683	1.690		0.42	20
1,2-Dichlorobenzene	1.620	1.618		-0.12	20
1,2-Dichloroethane-d4	0.807	0.803		-0.5	20
Dibromofluoromethane	0.347	0.370		6.63	20
Toluene-d8	1.232	1.364		10.71	20
4-Bromofluorobenzene	0.422	0.475		12.56	20

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.: Q1121 SAS No.: Q1121 SDG No.: Q1121

Instrument ID: MSVOA_N Calibration Date/Time: 01/17/2025 19:36

Lab File ID: VN085505.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.733	0.655	0.1	-10.64	50
Vinyl Chloride	0.737	0.674		-8.55	50
Bromomethane	0.445	0.375		-15.73	50
Chloroethane	0.467	0.440		-5.78	50
Trichlorofluoromethane	1.069	1.011		-5.43	50
1,1,2-Trichlorotrifluoroethane	0.602	0.558		-7.31	50
1,1-Dichloroethene	0.537	0.524		-2.42	50
Acetone	0.261	0.258		-1.15	50
Carbon Disulfide	1.652	1.399		-15.31	50
Methyl tert-butyl Ether	1.742	1.885		8.21	50
Methylene Chloride	0.646	0.615		-4.8	50
trans-1,2-Dichloroethene	0.573	0.537		-6.28	50
1,1-Dichloroethane	1.178	1.148	0.1	-2.55	50
2-Butanone	0.384	0.408		6.25	50
Carbon Tetrachloride	0.557	0.529		-5.03	50
cis-1,2-Dichloroethene	0.675	0.660		-2.22	50
Chloroform	1.218	1.175		-3.53	50
1,1,1-Trichloroethane	1.068	1.025		-4.03	50
Methylcyclohexane	0.457	0.440		-3.72	50
Benzene	1.463	1.408		-3.76	50
1,2-Dichloroethane	0.551	0.536		-2.72	50
Trichloroethene	0.341	0.316		-7.33	50
1,2-Dichloropropane	0.374	0.365		-2.41	50
Bromodichloromethane	0.549	0.546		-0.55	50
4-Methyl-2-Pentanone	0.457	0.511		11.82	50
Toluene	0.848	0.878		3.54	50
t-1,3-Dichloropropene	0.519	0.543		4.62	50
cis-1,3-Dichloropropene	0.554	0.578		4.33	50
1,1,2-Trichloroethane	0.335	0.332		-0.9	50
2-Hexanone	0.321	0.368		14.64	50
Dibromochloromethane	0.405	0.404		-0.25	50
Tetrachloroethene	0.341	0.296		-13.2	50
Chlorobenzene	1.095	1.061	0.3	-3.11	50
Ethyl Benzene	1.784	1.886		5.72	50
m/p-Xylenes	0.659	0.707		7.28	50
o-Xylene	0.630	0.684		8.57	50
Styrene	1.043	1.181		13.23	50
Bromoform	0.288	0.306	0.1	6.25	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.: Q1121 SAS No.: Q1121 SDG No.: Q1121

Instrument ID: MSVOA_N Calibration Date/Time: 01/17/2025 19:36

Lab File ID: VN085505.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.375	3.516		4.18	50
1,1,2,2-Tetrachloroethane	1.192	1.174	0.3	-1.51	50
1,3-Dichlorobenzene	1.624	1.546		-4.8	50
1,4-Dichlorobenzene	1.683	1.531		-9.03	50
1,2-Dichlorobenzene	1.620	1.507		-6.97	50
1,2-Dichloroethane-d4	0.807	0.787		-2.48	50
Dibromofluoromethane	0.347	0.334		-3.75	50
Toluene-d8	1.232	1.222		-0.81	50
4-Bromofluorobenzene	0.422	0.443		4.98	50

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

LAB CHRONICLE

OrderID:	Q1121	OrderDate:	1/17/2025 7:55:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1121-01	RW10A-20250116	Water	SVOC-SIMGroup1	8270-Modified	01/16/25	01/17/25	01/20/25	01/16/25



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1121
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW10A-20250116								
Q1121-01	RW10A-20250116	WATER	1,4-Dioxane	0.180	J	0.07	0.2	0.2 ug/L
Total Svoc :				0.18				
Total Concentration:				0.18				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/16/25
Client Sample ID:	RW10A-20250116	SDG No.:	Q1121
Lab Sample ID:	Q1121-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035997.D	1	01/17/25 10:10	01/20/25 14:03	PB166108

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.18	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.47	*	55 - 111		118%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2380	7.817				
1146-65-2	Naphthalene-d8	4810	10.611				
15067-26-2	Acenaphthene-d10	2480	14.452				
1517-22-2	Phenanthrene-d10	5010	17.186				
1719-03-5	Chrysene-d12	4480	21.367				
1520-96-3	Perylene-d12	4570	23.663				

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

SW-846

SDG No.: Q1121

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166108BL	PB166108BL	2-Methylnaphthalene-d10	0.4	0.44	109		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.49	123	*	55	111
		2-Fluorobiphenyl	0.4	0.43	107	*	53	106
		Terphenyl-d14	0.4	0.51	127		58	132
PB166108BS	PB166108BS	2-Methylnaphthalene-d10	0.4	0.43	106		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.53	133	*	55	111
		2-Fluorobiphenyl	0.4	0.43	106		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
PB166108BSD	PB166108BSD	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.51	126	*	55	111
		2-Fluorobiphenyl	0.4	0.43	107	*	53	106
		Terphenyl-d14	0.4	0.44	111		58	132
Q1121-01	RW10A-20250116	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.47	118	*	55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.45	112		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1121

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035998.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166108BS	1,4-Dioxane	0.4	0.38	ug/L	95				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1121

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035999.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166108BSD	1,4-Dioxane	0.4	0.39	ug/L	98				70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166108BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1121

SAS No.: Q1121 SDG NO.: Q1121

Lab File ID: BN035992.D

Lab Sample ID: PB166108BL

Instrument ID: BNA_N

Date Extracted: 01/17/2025

Matrix: (soil/water) Water

Date Analyzed: 01/20/2025

Level: (low/med) LOW

Time Analyzed: 11:03

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166108BS	PB166108BS	BN035998.D	01/20/2025
RW10A-20250116	Q1121-01	BN035997.D	01/20/2025
PB166108BSD	PB166108BSD	BN035999.D	01/20/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1121

SDG NO.: Q1121

Lab File ID: BN035870.D

DFTPP Injection Date: 01/02/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	39
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	43.4
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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
SSTDICC0.1	SSTDICC0.1	BN035871.D	01/02/2025	11:28
SSTDICC0.2	SSTDICC0.2	BN035872.D	01/02/2025	12:04
SSTDICCC0.4	SSTDICCC0.4	BN035873.D	01/02/2025	12:40
SSTDICC0.8	SSTDICC0.8	BN035874.D	01/02/2025	13:16
SSTDICC1.6	SSTDICC1.6	BN035875.D	01/02/2025	13:52
SSTDICC3.2	SSTDICC3.2	BN035876.D	01/02/2025	14:28
SSTDICC5.0	SSTDICC5.0	BN035877.D	01/02/2025	15:04

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1121 SDG NO.: Q1121

Lab File ID: BN035990.D

DFTPP Injection Date: 01/20/2025

Instrument ID: BNA_N

DFTPP Injection Time: 09:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.3
68	Less than 2.0% of mass 69	0.4 (0.8) 1
69	Mass 69 relative abundance	47.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	49
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	24.1
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	9.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.1 (18.6) 2

1-Value is % mass 69

2-Value is % mass 442

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
SSTDCCC0.4	SSTDCCC0.4	BN035991.D	01/20/2025	10:27
PB166108BL	PB166108BL	BN035992.D	01/20/2025	11:03
RW10A-20250116	Q1121-01	BN035997.D	01/20/2025	14:03
PB166108BS	PB166108BS	BN035998.D	01/20/2025	14:38
PB166108BSD	PB166108BSD	BN035999.D	01/20/2025	15:14
SSTDCCC0.4EC	SSTDCCC0.4	BN036000.D	01/20/2025	16:11

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1121 SAS No.: Q1121 SDG NO.: Q1121

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/20/2025

Lab File ID: BN035991.D Time Analyzed: 10:27

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2147	7.817	4278	10.61	2153	14.45
UPPER LIMIT	4294	8.317	8556	11.111	4306	14.952
LOWER LIMIT	1073.5	7.317	2139	10.111	1076.5	13.952
EPA SAMPLE NO.						
01 PB166108BL	2441	7.82	4766	10.61	2405	14.45
02 PB166108BS	2154	7.82	4363	10.61	2173	14.45
03 PB166108BSD	2639	7.82	5199	10.61	2411	14.45
04 RW10A-20250116	2375	7.82	4813	10.61	2482	14.45

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

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 UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1121 SAS No.: Q1121 SDG NO.: Q1121

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/20/2025

Lab File ID: BN035991.D Time Analyzed: 10:27

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	4411	17.186	3822	21.367	3850	23.666
UPPER LIMIT	8822	17.686	7644	21.867	7700	24.166
LOWER LIMIT	2205.5	16.686	1911	20.867	1925	23.166
EPA SAMPLE NO.						
01 PB166108BL	4916	17.19	4139	21.37	4174	23.67
02 PB166108BS	4379	17.19	4015	21.37	4099	23.66
03 PB166108BSD	4157	17.19	3274	21.37	3543	23.66
04 RW10A-20250116	5010	17.19	4480	21.37	4572	23.66

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

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 UPPER 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:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166108BL		SDG No.:	Q1121
Lab Sample ID:	PB166108BL		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035992.D	1	01/17/25 10:10	01/20/25 11:03	PB166108

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.44		30 - 150		109%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		123%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		107%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2440	7.817				
1146-65-2	Naphthalene-d8	4770	10.611				
15067-26-2	Acenaphthene-d10	2410	14.452				
1517-22-2	Phenanthrene-d10	4920	17.186				
1719-03-5	Chrysene-d12	4140	21.367				
1520-96-3	Perylene-d12	4170	23.666				

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:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB166108BS		SDG No.:	Q1121
Lab Sample ID:	PB166108BS		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035998.D	1	01/17/25 10:10	01/20/25 14:38	PB166108

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		106%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.53	*	55 - 111		133%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43		53 - 106		106%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2150	7.817				
1146-65-2	Naphthalene-d8	4360	10.611				
15067-26-2	Acenaphthene-d10	2170	14.452				
1517-22-2	Phenanthrene-d10	4380	17.186				
1719-03-5	Chrysene-d12	4020	21.367				
1520-96-3	Perylene-d12	4100	23.663				

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:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB166108BSD		SDG No.:	Q1121	
Lab Sample ID:	PB166108BSD		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035999.D	1	01/17/25 10:10	01/20/25 15:14	PB166108

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.39		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.51	*	55 - 111		126%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		107%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2640	7.817				
1146-65-2	Naphthalene-d8	5200	10.611				
15067-26-2	Acenaphthene-d10	2410	14.452				
1517-22-2	Phenanthrene-d10	4160	17.186				
1719-03-5	Chrysene-d12	3270	21.367				
1520-96-3	Perylene-d12	3540	23.66				

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN010225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jan 02 15:39:17 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN035871.D 0.2 =BN035872.D 0.4 =BN035873.D 0.8 =BN035874.D 1.6 =BN035875.D 3.2 =BN035876.D 5.0 =BN035877.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.454	0.422	0.373	0.388	0.391	0.377	0.377	0.397	7.52
3)	n-Nitrosodimet...	0.707	0.674	0.676	0.690	0.722	0.690	0.692	0.693	2.45
4) S	2-Fluorophenol	1.031	1.009	0.952	0.958	0.997	0.956	0.968	0.981	3.13
5) S	Phenol-d6	1.351	1.255	1.180	1.197	1.215	1.163	1.170	1.219	5.44
6)	bis(2-Chloroet...	1.001	0.946	0.936	0.913	0.938	0.886	0.879	0.929	4.43
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.346	0.307	0.296	0.302	0.319	0.317	0.330	0.317	5.48
9)	Naphthalene	1.163	1.094	1.086	1.096	1.167	1.113	1.141	1.123	3.00
10)	Hexachlorobuta...	0.368	0.354	0.353	0.363	0.382	0.362	0.369	0.365	2.74
11) SURR2	Methylnaphth...	0.547	0.536	0.527	0.519	0.556	0.524	0.540	0.536	2.50
12)	2-Methylnaphth...	0.691	0.654	0.685	0.680	0.731	0.701	0.722	0.695	3.75
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.164	0.165	0.189	0.189	0.207	0.211	0.220	0.192	11.39
15) S	2-Fluorobiphenyl	1.776	1.675	1.708	1.765	1.823	1.779	1.762	1.755	2.79
16)	Acenaphthylene	1.890	1.766	1.819	1.839	1.962	1.948	1.963	1.884	4.15
17)	Acenaphthene	1.187	1.162	1.198	1.232	1.300	1.275	1.291	1.235	4.43
18)	Fluorene	1.341	1.270	1.307	1.298	1.419	1.444	1.432	1.359	5.28
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.058	0.066	0.067	0.069	0.076	0.076	0.074	0.069	9.51
21)	4-Bromophenyl-...	0.265	0.269	0.268	0.267	0.290	0.283	0.279	0.274	3.47
22)	Hexachlorobenzene	0.393	0.369	0.356	0.362	0.394	0.373	0.371	0.374	3.93
23)	Atrazine	0.169	0.191	0.176	0.171	0.198	0.190	0.193	0.184	6.36
24)	Pentachlorophenol	0.141	0.101	0.118	0.122	0.143	0.148	0.153	0.132	14.40
25)	Phenanthrene	1.131	1.132	1.142	1.144	1.228	1.193	1.200	1.167	3.36
26)	Anthracene	0.996	0.998	1.008	1.033	1.137	1.132	1.130	1.062	6.34
27) SURR	Fluoranthene-d10	0.988	0.952	0.978	0.959	1.028	1.010	1.035	0.993	3.28
28)	Fluoranthene	1.268	1.253	1.330	1.312	1.441	1.446	1.475	1.361	6.71
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.606	1.620	1.571	1.612	1.711	1.621	1.627	1.624	2.63
31) S	Terphenyl-d14	0.814	0.813	0.790	0.777	0.828	0.776	0.781	0.797	2.64
32)	Benzo(a)anthra...	1.379	1.382	1.344	1.407	1.461	1.427	1.466	1.410	3.19
33)	Chrysene	1.484	1.458	1.441	1.451	1.541	1.478	1.471	1.475	2.24
34)	Bis(2-ethylhex...	0.691	0.583	0.582	0.541	0.569	0.519	0.530	0.574	10.05
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN010225.M

36)	Indeno(1,2,3-c...	1.428	1.461	1.414	1.578	1.697	1.712	1.751	1.577	9.15
37)	Benzo(b)fluora...	1.337	1.304	1.294	1.351	1.466	1.420	1.447	1.374	5.06
38)	Benzo(k)fluora...	1.279	1.254	1.251	1.344	1.469	1.442	1.482	1.360	7.55
39) C	Benzo(a)pyrene	1.099	1.181	1.086	1.163	1.270	1.244	1.284	1.190	6.71
40)	Dibenzo(a,h)an...	1.145	1.152	1.106	1.251	1.363	1.365	1.402	1.255	9.75
41)	Benzo(g,h,i)pe...	1.335	1.316	1.245	1.407	1.490	1.501	1.530	1.403	7.72

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1121 SAS No.: Q1121 SDG No.: Q1121

Instrument ID: BNA_N Calibration Date/Time: 01/20/2025 10:27

Lab File ID: BN035991.D Init. Calib. Date(s): 01/02/2025 01/02/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:28 15:04

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.576		7.5	20.0
Fluoranthene-d10	0.993	1.092		10.0	20.0
2-Fluorophenol	0.981	1.122		14.4	20.0
Phenol-d6	1.219	1.348		10.6	20.0
Nitrobenzene-d5	0.317	0.415		30.9	20.0
2-Fluorobiphenyl	1.755	1.847		5.2	20.0
2,4,6-Tribromophenol	0.192	0.257		33.9	20.0
Terphenyl-d14	0.797	0.890		11.7	20.0
1,4-Dioxane	0.397	0.460		15.9	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1121 SAS No.: Q1121 SDG No.: Q1121

Instrument ID: BNA_N Calibration Date/Time: 01/20/2025 16:11

Lab File ID: BN036000.D Init. Calib. Date(s): 01/02/2025 01/02/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:28 15:04

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.580		8.2	50.0
Fluoranthene-d10	0.993	1.025		3.2	50.0
2-Fluorophenol	0.981	1.150		17.2	50.0
Phenol-d6	1.219	1.348		10.6	50.0
Nitrobenzene-d5	0.317	0.430		35.6	50.0
2-Fluorobiphenyl	1.755	1.950		11.1	50.0
2,4,6-Tribromophenol	0.192	0.234		21.9	50.0
Terphenyl-d14	0.797	0.905		13.6	50.0
1,4-Dioxane	0.397	0.483		21.7	50.0

All other compounds must meet a minimum RRF of 0.010.