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

LAB CHRONICLE

OrderID:	P5164	**OrderDate:**	12/6/2024 1:09:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5164-01	**RE108D2-20241206**	**Water**			**12/06/24**			**12/06/24**
			VOCMS Group1	8260-Low			12/09/24	
P5164-02	**RE108D1-20241206**	**Water**			**12/06/24**			**12/06/24**
			VOCMS Group1	8260-Low			12/09/24	
P5164-03	**RE105D1-20241206**	**Water**			**12/06/24**			**12/06/24**
			VOCMS Group1	8260-Low			12/09/24	
P5164-04	**RE105D2-20241206**	**Water**			**12/06/24**			**12/06/24**
			VOCMS Group1	8260-Low			12/09/24	
P5164-05	**TB**	**Water**			**12/06/24**			**12/06/24**
			VOCMS Group1	8260-Low			12/10/24	
P5164-06	**FB-20241206**	**Water**			**12/06/24**			**12/06/24**
			VOCMS Group1	8260-Low			12/09/24	

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Hit Summary Sheet
SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**RE108D2-20241206**								
P5164-01	RE108D2-2024120(	Water	Trichloroethene	1300		6.40	15.0	20.0	ug/L
			Total Voc :	1300					
			Total Concentration:	1300					
Client ID:	**RE108D1-20241206**								
P5164-02	RE108D1-2024120(	Water	1,1,2-Trichlorotrifluoroethane	0.33	J	0.25	0.50	1.00	ug/L
P5164-02	RE108D1-2024120(	Water	Acetone	1.60	J	1.40	3.80	5.00	ug/L
P5164-02	RE108D1-2024120(	Water	Trichloroethene	24.5		0.32	0.75	1.00	ug/L
P5164-02	RE108D1-2024120(	Water	Tetrachloroethene	2.30		0.25	0.50	1.00	ug/L
			Total Voc :	28.7					
			Total Concentration:	28.7					
Client ID:	**RE105D1-20241206**								
P5164-03	RE105D1-2024120(	Water	Dichlorodifluoromethane	1.10		0.21	0.50	1.00	ug/L
P5164-03	RE105D1-2024120(	Water	1,1,2-Trichlorotrifluoroethane	6.10		0.25	0.50	1.00	ug/L
P5164-03	RE105D1-2024120(	Water	1,1-Dichloroethene	0.76	J	0.26	0.75	1.00	ug/L
P5164-03	RE105D1-2024120(	Water	Methylene Chloride	0.36	J	0.32	0.50	1.00	ug/L
P5164-03	RE105D1-2024120(	Water	Trichloroethene	39.6		0.32	0.75	1.00	ug/L
			Total Voc :	47.9					
			Total Concentration:	47.9					
Client ID:	**RE105D2-20241206**								
P5164-04	RE105D2-2024120(	Water	1,1,2-Trichlorotrifluoroethane	18.8	J	5.00	10.0	20.0	ug/L
P5164-04	RE105D2-2024120(	Water	Trichloroethene	1600		6.40	15.0	20.0	ug/L
			Total Voc :	1620					
			Total Concentration:	1620					
Client ID:	**TB**								
P5164-05	TB	Water	Chloromethane	1.20		0.35	0.50	1.00	ug/L
P5164-05	TB	Water	Acetone	1.40	J	1.40	3.80	5.00	ug/L
P5164-05	TB	Water	Methylene Chloride	0.58	J	0.32	0.50	1.00	ug/L
			Total Voc :	3.18					
			Total Concentration:	3.18					
Client ID:	**FB-20241206**								
P5164-06	FB-20241206	Water	Acetone	3.10	J	1.40	3.80	5.00	ug/L
P5164-06	FB-20241206	Water	Methylene Chloride	0.45	J	0.32	0.50	1.00	ug/L
			Total Voc :	3.55					
			Total Concentration:	3.55					

SAMPLE DATA

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044192.D	20		12/09/24 16:51	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.0	U	4.20	10.0	20.0	ug/L
74-87-3	Chloromethane	10.0	U	7.00	10.0	20.0	ug/L
75-01-4	Vinyl Chloride	15.0	U	6.80	15.0	20.0	ug/L
74-83-9	Bromomethane	75.0	U	27.2	75.0	100	ug/L
75-00-3	Chloroethane	15.0	U	11.2	15.0	20.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	U	6.80	10.0	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.0	U	5.00	10.0	20.0	ug/L
75-35-4	1,1-Dichloroethene	15.0	U	5.20	15.0	20.0	ug/L
67-64-1	Acetone	75.0	U	27.8	75.0	100	ug/L
75-15-0	Carbon Disulfide	15.0	U	6.40	15.0	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	U	3.20	10.0	20.0	ug/L
79-20-9	Methyl Acetate	15.0	U	12.0	15.0	20.0	ug/L
75-09-2	Methylene Chloride	10.0	U	6.40	10.0	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	U	5.00	10.0	20.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	U	4.60	10.0	20.0	ug/L
110-82-7	Cyclohexane	50.0	U	32.4	50.0	100	ug/L
78-93-3	2-Butanone	50.0	U	26.0	50.0	100	ug/L
56-23-5	Carbon Tetrachloride	10.0	U	5.00	10.0	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	15.0	U	5.00	15.0	20.0	ug/L
74-97-5	Bromochloromethane	10.0	U	3.60	10.0	20.0	ug/L
67-66-3	Chloroform	10.0	U	5.20	10.0	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	U	3.80	10.0	20.0	ug/L
108-87-2	Methylcyclohexane	10.0	U	3.80	10.0	20.0	ug/L
71-43-2	Benzene	10.0	U	3.20	10.0	20.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	U	4.80	10.0	20.0	ug/L
79-01-6	Trichloroethene	1300		6.40	15.0	20.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	U	3.80	10.0	20.0	ug/L
75-27-4	Bromodichloromethane	10.0	U	4.80	10.0	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	U	15.0	50.0	100	ug/L
108-88-3	Toluene	10.0	U	3.60	10.0	20.0	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044192.D	20		12/09/24 16:51	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	10.0	U	4.20	10.0	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	U	3.60	10.0	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	10.0	U	4.20	10.0	20.0	ug/L
591-78-6	2-Hexanone	50.0	U	22.6	50.0	100	ug/L
124-48-1	Dibromochloromethane	10.0	U	3.60	10.0	20.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	U	3.20	10.0	20.0	ug/L
127-18-4	Tetrachloroethene	10.0	U	5.00	10.0	20.0	ug/L
108-90-7	Chlorobenzene	10.0	U	2.60	10.0	20.0	ug/L
100-41-4	Ethyl Benzene	10.0	U	3.20	10.0	20.0	ug/L
179601-23-1	m/p-Xylenes	20.0	U	6.20	20.0	40.0	ug/L
95-47-6	o-Xylene	10.0	U	2.80	10.0	20.0	ug/L
100-42-5	Styrene	10.0	U	3.20	10.0	20.0	ug/L
75-25-2	Bromoform	10.0	U	4.20	10.0	20.0	ug/L
98-82-8	Isopropylbenzene	10.0	U	2.60	10.0	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	U	5.40	10.0	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	U	4.80	10.0	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	U	5.40	10.0	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	U	3.80	10.0	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.0	U	9.20	15.0	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	U	8.40	10.0	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.0	U	10.2	15.0	20.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.2		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	107000	5.55				
540-36-3	1,4-Difluorobenzene	205000	6.757				
3114-55-4	Chlorobenzene-d5	184000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	80900	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044192.D	20		12/09/24 16:51	VX120924

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044188.D	1		12/09/24 15:17	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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	0.33	J	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	1.60	J	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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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	24.5		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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044188.D	1		12/09/24 15:17	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	2.30		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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.7		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	120000	5.543				
540-36-3	1,4-Difluorobenzene	226000	6.757				
3114-55-4	Chlorobenzene-d5	193000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	74600	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044188.D	1		12/09/24 15:17	VX120924

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-03	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044189.D	1		12/09/24 15:40	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.10		0.21	0.50	1.00	ug/L
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	6.10		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	J	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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.36	J	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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	39.6		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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-03	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044189.D	1		12/09/24 15:40	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.3		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	45.7		80 - 119		91%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.544				
540-36-3	1,4-Difluorobenzene	205000	6.757				
3114-55-4	Chlorobenzene-d5	176000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	70900	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-03	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044189.D	1		12/09/24 15:40	VX120924

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-04	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044193.D	20		12/09/24 17:14	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.0	U	4.20	10.0	20.0	ug/L
74-87-3	Chloromethane	10.0	U	7.00	10.0	20.0	ug/L
75-01-4	Vinyl Chloride	15.0	U	6.80	15.0	20.0	ug/L
74-83-9	Bromomethane	75.0	U	27.2	75.0	100	ug/L
75-00-3	Chloroethane	15.0	U	11.2	15.0	20.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	U	6.80	10.0	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.8	J	5.00	10.0	20.0	ug/L
75-35-4	1,1-Dichloroethene	15.0	U	5.20	15.0	20.0	ug/L
67-64-1	Acetone	75.0	U	27.8	75.0	100	ug/L
75-15-0	Carbon Disulfide	15.0	U	6.40	15.0	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	U	3.20	10.0	20.0	ug/L
79-20-9	Methyl Acetate	15.0	U	12.0	15.0	20.0	ug/L
75-09-2	Methylene Chloride	10.0	U	6.40	10.0	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	U	5.00	10.0	20.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	U	4.60	10.0	20.0	ug/L
110-82-7	Cyclohexane	50.0	U	32.4	50.0	100	ug/L
78-93-3	2-Butanone	50.0	U	26.0	50.0	100	ug/L
56-23-5	Carbon Tetrachloride	10.0	U	5.00	10.0	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	15.0	U	5.00	15.0	20.0	ug/L
74-97-5	Bromochloromethane	10.0	U	3.60	10.0	20.0	ug/L
67-66-3	Chloroform	10.0	U	5.20	10.0	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	U	3.80	10.0	20.0	ug/L
108-87-2	Methylcyclohexane	10.0	U	3.80	10.0	20.0	ug/L
71-43-2	Benzene	10.0	U	3.20	10.0	20.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	U	4.80	10.0	20.0	ug/L
79-01-6	Trichloroethene	1600		6.40	15.0	20.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	U	3.80	10.0	20.0	ug/L
75-27-4	Bromodichloromethane	10.0	U	4.80	10.0	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	U	15.0	50.0	100	ug/L
108-88-3	Toluene	10.0	U	3.60	10.0	20.0	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-04	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044193.D	20		12/09/24 17:14	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	10.0	U	4.20	10.0	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	U	3.60	10.0	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	10.0	U	4.20	10.0	20.0	ug/L
591-78-6	2-Hexanone	50.0	U	22.6	50.0	100	ug/L
124-48-1	Dibromochloromethane	10.0	U	3.60	10.0	20.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	U	3.20	10.0	20.0	ug/L
127-18-4	Tetrachloroethene	10.0	U	5.00	10.0	20.0	ug/L
108-90-7	Chlorobenzene	10.0	U	2.60	10.0	20.0	ug/L
100-41-4	Ethyl Benzene	10.0	U	3.20	10.0	20.0	ug/L
179601-23-1	m/p-Xylenes	20.0	U	6.20	20.0	40.0	ug/L
95-47-6	o-Xylene	10.0	U	2.80	10.0	20.0	ug/L
100-42-5	Styrene	10.0	U	3.20	10.0	20.0	ug/L
75-25-2	Bromoform	10.0	U	4.20	10.0	20.0	ug/L
98-82-8	Isopropylbenzene	10.0	U	2.60	10.0	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	U	5.40	10.0	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	U	4.80	10.0	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	U	5.40	10.0	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	U	3.80	10.0	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.0	U	9.20	15.0	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	U	8.40	10.0	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.0	U	10.2	15.0	20.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.5		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.55				
540-36-3	1,4-Difluorobenzene	208000	6.757				
3114-55-4	Chlorobenzene-d5	183000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	82400	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-04	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044193.D	20		12/09/24 17:14	VX120924

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	TB	SDG No.:	P5164
Lab Sample ID:	P5164-05	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044200.D	1		12/10/24 11:59	VX121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	1.20		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	1.40	J	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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.58	J	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	TB	SDG No.:	P5164
Lab Sample ID:	P5164-05	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044200.D	1		12/10/24 11:59	VX121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.5		81 - 118		99%	SPK: 50
1868-53-7	Dibromofluoromethane	45.5		80 - 119		91%	SPK: 50
2037-26-5	Toluene-d8	49.0		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	112000	5.55				
540-36-3	1,4-Difluorobenzene	212000	6.757				
3114-55-4	Chlorobenzene-d5	185000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	76800	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	TB	SDG No.:	P5164
Lab Sample ID:	P5164-05	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044200.D	1		12/10/24 11:59	VX121024

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	FB-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-06	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044186.D	1		12/09/24 14:30	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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	3.10	J	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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.45	J	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	FB-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-06	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044186.D	1		12/09/24 14:30	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	44.7		80 - 119		89%	SPK: 50
2037-26-5	Toluene-d8	49.8		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	106000	5.55				
540-36-3	1,4-Difluorobenzene	205000	6.757				
3114-55-4	Chlorobenzene-d5	181000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	74300	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	FB-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-06	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044186.D	1		12/09/24 14:30	VX120924

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

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

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Surrogate Summary

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5164-01	RE108D2-20241206	1,2-Dichloroethane-d4	50	51.2	102	81	118
		Dibromofluoromethane	50	46.1	92	80	119
		Toluene-d8	50	50.6	101	89	112
		4-Bromofluorobenzene	50	52.0	104	85	114
P5164-02	RE108D1-20241206	1,2-Dichloroethane-d4	50	50.6	101	81	118
		Dibromofluoromethane	50	46.6	93	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	46.7	93	85	114
P5164-03	RE105D1-20241206	1,2-Dichloroethane-d4	50	50.3	101	81	118
		Dibromofluoromethane	50	45.7	91	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	48.2	96	85	114
P5164-04	RE105D2-20241206	1,2-Dichloroethane-d4	50	50.5	101	81	118
		Dibromofluoromethane	50	46.1	92	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	51.5	103	85	114
P5164-05	TB	1,2-Dichloroethane-d4	50	49.5	99	81	118
		Dibromofluoromethane	50	45.5	91	80	119
		Toluene-d8	50	49.0	98	89	112
		4-Bromofluorobenzene	50	48.2	96	85	114
P5164-06	FB-20241206	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	44.7	89	80	119
		Toluene-d8	50	49.8	100	89	112
		4-Bromofluorobenzene	50	49.6	99	85	114
VX1209WBL01	VX1209WBL01	1,2-Dichloroethane-d4	50	52.4	105	81	118
		Dibromofluoromethane	50	46.4	93	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	49.2	98	85	114
VX1209WBS01	VX1209WBS01	1,2-Dichloroethane-d4	50	51.2	102	81	118
		Dibromofluoromethane	50	50.4	101	80	119
		Toluene-d8	50	48.7	97	89	112
		4-Bromofluorobenzene	50	50.9	102	85	114
VX1209WBSD0	VX1209WBSD01	1,2-Dichloroethane-d4	50	55.7	111	81	118
		Dibromofluoromethane	50	52.0	104	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	53.8	108	85	114
VX1210WBL01	VX1210WBL01	1,2-Dichloroethane-d4	50	49.7	99	81	118
		Dibromofluoromethane	50	46.4	93	80	119
		Toluene-d8	50	49.1	98	89	112
		4-Bromofluorobenzene	50	47.5	95	85	114
VX1210WBS01	VX1210WBS01	1,2-Dichloroethane-d4	50	52.6	105	81	118
		Dibromofluoromethane	50	50.9	102	80	119
		Toluene-d8	50	49.6	99	89	112
		4-Bromofluorobenzene	50	51.7	103	85	114

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044178.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1209WBS01	Dichlorodifluoromethane	20	14.8	ug/L	74			32	152	
	Chloromethane	20	15.9	ug/L	79			50	139	
	Vinyl chloride	20	16.0	ug/L	80			58	137	
	Bromomethane	20	19.4	ug/L	97			53	141	
	Chloroethane	20	19.9	ug/L	100			60	138	
	Trichlorofluoromethane	20	19.5	ug/L	98			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.1	ug/L	91			70	136	
	1,1-Dichloroethene	20	16.9	ug/L	85			71	131	
	Acetone	100	96.9	ug/L	97			39	160	
	Carbon disulfide	20	13.9	ug/L	70			64	133	
	Methyl tert-butyl Ether	20	20.2	ug/L	101			71	124	
	Methyl Acetate	20	19.8	ug/L	99			56	136	
	Methylene Chloride	20	17.9	ug/L	90			74	124	
	trans-1,2-Dichloroethene	20	17.8	ug/L	89			75	124	
	1,1-Dichloroethane	20	19.0	ug/L	95			77	125	
	Cyclohexane	20	17.9	ug/L	90			71	130	
	2-Butanone	100	99.5	ug/L	100			56	143	
	Carbon Tetrachloride	20	18.2	ug/L	91			72	136	
	cis-1,2-Dichloroethene	20	18.5	ug/L	93			78	123	
	Bromochloromethane	20	21.7	ug/L	109			78	123	
	Chloroform	20	19.4	ug/L	97			79	124	
	1,1,1-Trichloroethane	20	19.3	ug/L	97			74	131	
	Methylcyclohexane	20	18.1	ug/L	91			72	132	
	Benzene	20	18.5	ug/L	93			79	120	
	1,2-Dichloroethane	20	20.0	ug/L	100			73	128	
	Trichloroethene	20	15.8	ug/L	79			79	123	
	1,2-Dichloropropane	20	19.2	ug/L	96			78	122	
	Bromodichloromethane	20	19.3	ug/L	97			79	125	
	4-Methyl-2-Pentanone	100	100	ug/L	100			67	130	
	Toluene	20	19.6	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	18.9	ug/L	95			73	127	
	cis-1,3-Dichloropropene	20	19.1	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			80	119	
	2-Hexanone	100	100	ug/L	100			57	139	
	Dibromochloromethane	20	18.9	ug/L	95			74	126	
	1,2-Dibromoethane	20	20.0	ug/L	100			77	121	
	Tetrachloroethene	20	19.9	ug/L	100			74	129	
	Chlorobenzene	20	18.9	ug/L	95			82	118	
	Ethyl Benzene	20	19.7	ug/L	99			79	121	
	m/p-Xylenes	40	38.8	ug/L	97			80	121	
	o-Xylene	20	20.2	ug/L	101			78	122	
	Styrene	20	19.6	ug/L	98			78	123	
	Bromoform	20	17.1	ug/L	86			66	130	
	Isopropylbenzene	20	20.2	ug/L	101			72	131	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/L	101			71	121	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			80	119	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			79	118	
	1,2-Dichlorobenzene	20	19.2	ug/L	96			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044178.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1209WBS01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/L	98			62	128	
	1,2,4-Trichlorobenzene	20	18.6	ug/L	93			69	130	
	1,2,3-Trichlorobenzene	20	19.3	ug/L	97			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044194.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1209WBSD01	Dichlorodifluoromethane	20	16.0	ug/L	80	8		32	152	20
	Chloromethane	20	18.1	ug/L	91	14		50	139	20
	Vinyl chloride	20	18.3	ug/L	92	14		58	137	20
	Bromomethane	20	21.0	ug/L	105	8		53	141	20
	Chloroethane	20	25.4	ug/L	127	24	*	60	138	20
	Trichlorofluoromethane	20	19.8	ug/L	99	1		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92	1		70	136	20
	1,1-Dichloroethene	20	19.1	ug/L	96	12		71	131	20
	Acetone	100	100	ug/L	100	3		39	160	20
	Carbon disulfide	20	13.8	ug/L	69	1		64	133	20
	Methyl tert-butyl Ether	20	21.9	ug/L	110	9		71	124	20
	Methyl Acetate	20	21.5	ug/L	108	9		56	136	20
	Methylene Chloride	20	19.9	ug/L	100	11		74	124	20
	trans-1,2-Dichloroethene	20	19.5	ug/L	98	10		75	124	20
	1,1-Dichloroethane	20	21.2	ug/L	106	11		77	125	20
	Cyclohexane	20	18.8	ug/L	94	4		71	130	20
	2-Butanone	100	110	ug/L	110	10		56	143	20
	Carbon Tetrachloride	20	19.4	ug/L	97	6		72	136	20
	cis-1,2-Dichloroethene	20	21.3	ug/L	106	13		78	123	20
	Bromochloromethane	20	18.9	ug/L	95	14		78	123	20
	Chloroform	20	22.3	ug/L	112	14		79	124	20
	1,1,1-Trichloroethane	20	21.3	ug/L	106	9		74	131	20
	Methylcyclohexane	20	18.4	ug/L	92	1		72	132	20
	Benzene	20	20.2	ug/L	101	8		79	120	20
	1,2-Dichloroethane	20	21.5	ug/L	108	8		73	128	20
	Trichloroethene	20	17.9	ug/L	90	13		79	123	20
	1,2-Dichloropropane	20	20.0	ug/L	100	4		78	122	20
	Bromodichloromethane	20	20.4	ug/L	102	5		79	125	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		67	130	20
	Toluene	20	20.8	ug/L	104	6		80	121	20
	t-1,3-Dichloropropene	20	19.8	ug/L	99	4		73	127	20
	cis-1,3-Dichloropropene	20	20.2	ug/L	101	5		75	124	20
	1,1,2-Trichloroethane	20	21.5	ug/L	108	11		80	119	20
	2-Hexanone	100	120	ug/L	120	18		57	139	20
	Dibromochloromethane	20	19.8	ug/L	99	4		74	126	20
	1,2-Dibromoethane	20	21.3	ug/L	106	6		77	121	20
	Tetrachloroethene	20	19.6	ug/L	98	2		74	129	20
	Chlorobenzene	20	20.0	ug/L	100	5		82	118	20
	Ethyl Benzene	20	20.9	ug/L	104	5		79	121	20
	m/p-Xylenes	40	41.4	ug/L	104	7		80	121	20
	o-Xylene	20	21.3	ug/L	106	5		78	122	20
	Styrene	20	21.1	ug/L	106	8		78	123	20
	Bromoform	20	17.5	ug/L	88	2		66	130	20
	Isopropylbenzene	20	21.9	ug/L	110	9		72	131	20
	1,1,2,2-Tetrachloroethane	20	22.2	ug/L	111	9		71	121	20
	1,3-Dichlorobenzene	20	20.6	ug/L	103	7		80	119	20
	1,4-Dichlorobenzene	20	20.0	ug/L	100	5		79	118	20
	1,2-Dichlorobenzene	20	21.3	ug/L	106	10		80	119	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044194.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1209WBSD01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/L	104	6		62	128	20
	1,2,4-Trichlorobenzene	20	19.4	ug/L	97	4		69	130	20
	1,2,3-Trichlorobenzene	20	20.0	ug/L	100	3		69	129	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044201.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1210WBS01	Dichlorodifluoromethane	20	15.1	ug/L	76			32	152	
	Chloromethane	20	15.9	ug/L	79			50	139	
	Vinyl chloride	20	17.7	ug/L	89			58	137	
	Bromomethane	20	20.3	ug/L	102			53	141	
	Chloroethane	20	21.4	ug/L	107			60	138	
	Trichlorofluoromethane	20	19.2	ug/L	96			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.1	ug/L	91			70	136	
	1,1-Dichloroethene	20	17.5	ug/L	88			71	131	
	Acetone	100	91.1	ug/L	91			39	160	
	Carbon disulfide	20	12.9	ug/L	65			64	133	
	Methyl tert-butyl Ether	20	20.4	ug/L	102			71	124	
	Methyl Acetate	20	20.4	ug/L	102			56	136	
	Methylene Chloride	20	18.4	ug/L	92			74	124	
	trans-1,2-Dichloroethene	20	17.6	ug/L	88			75	124	
	1,1-Dichloroethane	20	19.2	ug/L	96			77	125	
	Cyclohexane	20	17.7	ug/L	89			71	130	
	2-Butanone	100	100	ug/L	100			56	143	
	Carbon Tetrachloride	20	18.3	ug/L	92			72	136	
	cis-1,2-Dichloroethene	20	19.2	ug/L	96			78	123	
	Bromochloromethane	20	21.3	ug/L	106			78	123	
	Chloroform	20	20.1	ug/L	101			79	124	
	1,1,1-Trichloroethane	20	20.2	ug/L	101			74	131	
	Methylcyclohexane	20	16.8	ug/L	84			72	132	
	Benzene	20	19.0	ug/L	95			79	120	
	1,2-Dichloroethane	20	20.2	ug/L	101			73	128	
	Trichloroethene	20	16.4	ug/L	82			79	123	
	1,2-Dichloropropane	20	19.7	ug/L	99			78	122	
	Bromodichloromethane	20	20.0	ug/L	100			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	19.9	ug/L	100			80	121	
	t-1,3-Dichloropropene	20	18.8	ug/L	94			73	127	
	cis-1,3-Dichloropropene	20	18.8	ug/L	94			75	124	
	1,1,2-Trichloroethane	20	20.2	ug/L	101			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	1,2-Dibromoethane	20	20.6	ug/L	103			77	121	
	Tetrachloroethene	20	19.9	ug/L	100			74	129	
	Chlorobenzene	20	19.6	ug/L	98			82	118	
	Ethyl Benzene	20	20.0	ug/L	100			79	121	
	m/p-Xylenes	40	40.3	ug/L	101			80	121	
	o-Xylene	20	20.3	ug/L	102			78	122	
	Styrene	20	20.2	ug/L	101			78	123	
	Bromoform	20	17.7	ug/L	89			66	130	
	Isopropylbenzene	20	20.1	ug/L	101			72	131	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/L	104			71	121	
	1,3-Dichlorobenzene	20	19.0	ug/L	95			80	119	
	1,4-Dichlorobenzene	20	19.4	ug/L	97			79	118	
	1,2-Dichlorobenzene	20	19.7	ug/L	99			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044201.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1210WBS01	1,2-Dibromo-3-Chloropropane	20	19.1	ug/L	96			62	128	
	1,2,4-Trichlorobenzene	20	17.4	ug/L	87			69	130	
	1,2,3-Trichlorobenzene	20	19.0	ug/L	95			69	129	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1209WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX044176.D Lab Sample ID: VX1209WBL01

Date Analyzed: 12/09/2024 Time Analyzed: 10:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1209WBS01	VX1209WBS01	VX044178.D	12/09/2024
FB-20241206	P5164-06	VX044186.D	12/09/2024
RE108D1-20241206	P5164-02	VX044188.D	12/09/2024
RE105D1-20241206	P5164-03	VX044189.D	12/09/2024
RE108D2-20241206	P5164-01	VX044192.D	12/09/2024
RE105D2-20241206	P5164-04	VX044193.D	12/09/2024
VX1209WBSD01	VX1209WBSD01	VX044194.D	12/09/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1210WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX044199.D Lab Sample ID: VX1210WBL01

Date Analyzed: 12/10/2024 Time Analyzed: 11:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TB	P5164-05	VX044200.D	12/10/2024
VX1210WBS01	VX1210WBS01	VX044201.D	12/10/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX043924.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:51

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	54.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70.5
175	5.0 - 9.0% of mass 174	4.8 (6.8) 1
176	95.0 - 101.0% of mass 174	67.9 (96.4) 1
177	5.0 - 9.0% of mass 176	4.9 (7.3) 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
VSTDICC001	VSTDICC001	VX043925.D	11/21/2024	09:47
VSTDICC005	VSTDICC005	VX043926.D	11/21/2024	10:14
VSTDICC020	VSTDICC020	VX043927.D	11/21/2024	10:37
VSTDICCC050	VSTDICCC050	VX043928.D	11/21/2024	11:17
VSTDICC100	VSTDICC100	VX043929.D	11/21/2024	11:40
VSTDICC150	VSTDICC150	VX043930.D	11/21/2024	12:03

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX044173.D BFB Injection Date: 12/09/2024

Instrument ID: MSVOA_X BFB Injection Time: 09:06

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	69.6
175	5.0 - 9.0% of mass 174	5.4 (7.8) 1
176	95.0 - 101.0% of mass 174	68.7 (98.7) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 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	VX044174.D	12/09/2024	09:42
VX1209WBL01	VX1209WBL01	VX044176.D	12/09/2024	10:35
VX1209WBS01	VX1209WBS01	VX044178.D	12/09/2024	11:24
FB-20241206	P5164-06	VX044186.D	12/09/2024	14:30
RE108D1-20241206	P5164-02	VX044188.D	12/09/2024	15:17
RE105D1-20241206	P5164-03	VX044189.D	12/09/2024	15:40
RE108D2-20241206	P5164-01	VX044192.D	12/09/2024	16:51
RE105D2-20241206	P5164-04	VX044193.D	12/09/2024	17:14
VX1209WBSD01	VX1209WBSD01	VX044194.D	12/09/2024	17:37
VSTDCCC050EC	VSTDCCC050	VX044195.D	12/09/2024	18:00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX044196.D BFB Injection Date: 12/10/2024

Instrument ID: MSVOA_X BFB Injection Time: 09:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	70.2
175	5.0 - 9.0% of mass 174	5.4 (7.7) 1
176	95.0 - 101.0% of mass 174	69.5 (99) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 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	VX044197.D	12/10/2024	10:43
VX1210WBL01	VX1210WBL01	VX044199.D	12/10/2024	11:35
TB	P5164-05	VX044200.D	12/10/2024	11:59
VX1210WBS01	VX1210WBS01	VX044201.D	12/10/2024	12:22
VSTDCCC050EC	VSTDCCC050	VX044217.D	12/10/2024	18:44

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX044174.D Date Analyzed: 12/09/2024

Instrument ID: MSVOA_X Time Analyzed: 09:42

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	128814	5.54	227273	6.75	196952	10.05
UPPER LIMIT	257628	6.038	454546	7.251	393904	10.549
LOWER LIMIT	64407	5.038	113637	6.251	98476	9.549
EPA SAMPLE NO.						
RE108D2-20241206	107002	5.55	205381	6.76	184408	10.06
RE108D1-20241206	120459	5.54	226191	6.76	192858	10.06
RE105D1-20241206	108813	5.54	204658	6.76	176157	10.06
RE105D2-20241206	109323	5.55	207584	6.76	182923	10.06
FB-20241206	105637	5.55	204810	6.76	181265	10.06
VX1209WBL01	127252	5.54	245969	6.76	212379	10.05
VX1209WBS01	138067	5.55	244472	6.76	208975	10.05
VX1209WBSD01	135757	5.55	248673	6.76	215697	10.06

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX044174.D Date Analyzed: 12/09/2024

Instrument ID: MSVOA_X Time Analyzed: 09:42

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	97559	12.018				
UPPER LIMIT	195118	12.518				
LOWER LIMIT	48779.5	11.518				
EPA SAMPLE NO.						
RE108D2-20241206	80855	12.02				
RE108D1-20241206	74622	12.02				
RE105D1-20241206	70850	12.02				
RE105D2-20241206	82399	12.02				
FB-20241206	74280	12.02				
VX1209WBL01	90543	12.02				
VX1209WBS01	95808	12.02				
VX1209WBSD01	96570	12.02				

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX044197.D Date Analyzed: 12/10/2024

Instrument ID: MSVOA_X Time Analyzed: 10:43

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	121082	5.54	212067	6.76	187191	10.05
UPPER LIMIT	242164	6.038	424134	7.257	374382	10.549
LOWER LIMIT	60541	5.038	106034	6.257	93595.5	9.549
EPA SAMPLE NO.						
TB	112437	5.55	211530	6.76	185283	10.06
VX1210WBL01	110263	5.54	207593	6.76	178508	10.06
VX1210WBS01	143461	5.54	255477	6.76	217630	10.06

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: VX044197.D Date Analyzed: 12/10/2024

Instrument ID: MSVOA_X Time Analyzed: 10:43

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	91127	12.024				
UPPER LIMIT	182254	12.524				
LOWER LIMIT	45563.5	11.524				
EPA SAMPLE NO.						
TB	76755	12.02				
VX1210WBL01	71476	12.02				
VX1210WBS01	101326	12.02				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBL01	SDG No.:	P5164
Lab Sample ID:	VX1209WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044176.D	1		12/09/24 10:35	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBL01	SDG No.:	P5164
Lab Sample ID:	VX1209WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044176.D	1		12/09/24 10:35	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.3		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	127000	5.544				
540-36-3	1,4-Difluorobenzene	246000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	90500	12.018				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBL01	SDG No.:	P5164
Lab Sample ID:	VX1209WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044176.D	1		12/09/24 10:35	VX120924

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1210WBL01	SDG No.:	P5164
Lab Sample ID:	VX1210WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044199.D	1		12/10/24 11:35	VX121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1210WBL01	SDG No.:	P5164
Lab Sample ID:	VX1210WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044199.D	1		12/10/24 11:35	VX121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.7		81 - 118		99%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	49.1		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		85 - 114		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	110000	5.544				
540-36-3	1,4-Difluorobenzene	208000	6.757				
3114-55-4	Chlorobenzene-d5	179000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71500	12.018				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1210WBL01	SDG No.:	P5164
Lab Sample ID:	VX1210WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044199.D	1		12/10/24 11:35	VX121024

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBS01	SDG No.:	P5164
Lab Sample ID:	VX1209WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044178.D	1		12/09/24 11:24	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	14.8		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	15.9		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.0		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	19.4		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.9		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	96.9		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	13.9		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.2		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	19.8		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	17.9		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.0		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.9		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	99.5		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.2		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	21.7		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	19.4		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.1		0.19	0.50	1.00	ug/L
71-43-2	Benzene	18.5		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.0		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	15.8		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.2		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.6		0.18	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBS01	SDG No.:	P5164
Lab Sample ID:	VX1209WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044178.D	1		12/09/24 11:24	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.9		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.1		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	100		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.9		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.0		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.9		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.7		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.2		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.6		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	17.1		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.1		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		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	19.2		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.6		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.3		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.2		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	138000	5.55				
540-36-3	1,4-Difluorobenzene	244000	6.757				
3114-55-4	Chlorobenzene-d5	209000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	95800	12.018				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBS01	SDG No.:	P5164
Lab Sample ID:	VX1209WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044178.D	1		12/09/24 11:24	VX120924

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1210WBS01	SDG No.:	P5164
Lab Sample ID:	VX1210WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044201.D	1		12/10/24 12:22	VX121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	15.1		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	15.9		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.7		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	21.4		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.2		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.5		0.26	0.75	1.00	ug/L
67-64-1	Acetone	91.1		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	12.9		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	20.4		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	18.4		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.2		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.7		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	100		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	21.3		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	20.1		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	16.8		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.0		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	16.4		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.0		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	19.9		0.18	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1210WBS01	SDG No.:	P5164
Lab Sample ID:	VX1210WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044201.D	1		12/10/24 12:22	VX121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.8		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.8		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.9		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.3		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.3		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.2		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	17.7		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.1		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.7		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.0		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.7		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.1		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.4		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.0		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.6		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.6		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	143000	5.544				
540-36-3	1,4-Difluorobenzene	255000	6.757				
3114-55-4	Chlorobenzene-d5	218000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	101000	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1210WBS01	SDG No.:	P5164
Lab Sample ID:	VX1210WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044201.D	1		12/10/24 12:22	VX121024

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

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBSD01	SDG No.:	P5164
Lab Sample ID:	VX1209WBSD01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044194.D	1		12/09/24 17:37	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	16.0		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	18.1		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.3		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	21.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	25.4		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.8		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.26	0.75	1.00	ug/L
67-64-1	Acetone	100		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	13.8		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.9		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	21.5		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.9		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.5		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.2		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	18.8		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	110		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.3		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	18.9		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	22.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.3		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.4		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.2		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.5		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	17.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.0		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		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	20.8		0.18	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBSD01	SDG No.:	P5164
Lab Sample ID:	VX1209WBSD01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044194.D	1		12/09/24 17:37	VX120924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.5		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	19.8		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.6		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.0		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.9		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.4		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	21.3		0.14	0.50	1.00	ug/L
100-42-5	Styrene	21.1		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	17.5		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	21.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.2		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	20.0		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.3		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.4		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.7		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	136000	5.55				
540-36-3	1,4-Difluorobenzene	249000	6.757				
3114-55-4	Chlorobenzene-d5	216000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	96600	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1209WBSD01	SDG No.:	P5164
Lab Sample ID:	VX1209WBSD01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044194.D	1		12/09/24 17:37	VX120924

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

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043925.D RRF005 = VX043926.D RRF020 = VX043927.D
RRF050 = VX043928.D RRF100 = VX043929.D RRF150 = VX043930.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.634	0.633	0.641	0.684	0.601	0.608	0.633	4.6
Chloromethane	0.578	0.662	0.720	0.697	0.665	0.677	0.667	7.3
Vinyl Chloride	0.675	0.708	0.730	0.762	0.695	0.684	0.709	4.6
Bromomethane		0.425	0.438	0.445	0.429	0.442	0.436	2
Chloroethane	0.579	0.429	0.404	0.459	0.368	0.354	0.432	18.9
Trichlorofluoromethane	1.038	1.267	1.335	1.357	1.281	1.328	1.268	9.3
1,1,2-Trichlorotrifluoroethane	0.592	0.585	0.605	0.658	0.589	0.599	0.605	4.5
1,1-Dichloroethene	0.596	0.530	0.585	0.600	0.572	0.576	0.576	4.4
Acetone	0.401	0.396	0.401	0.425	0.370	0.370	0.394	5.4
Carbon Disulfide	1.082	0.956	1.078	1.287	1.330	1.398	1.188	14.6
Methyl tert-butyl Ether	1.732	1.991	2.212	2.264	2.160	2.192	2.092	9.5
Methyl Acetate	0.931	0.871	0.911	0.987	0.894	0.910	0.917	4.3
Methylene Chloride	0.704	0.656	0.684	0.667	0.643	0.655	0.668	3.3
trans-1,2-Dichloroethene	0.545	0.563	0.609	0.633	0.600	0.619	0.595	5.7
1,1-Dichloroethane	0.980	1.118	1.221	1.256	1.185	1.208	1.161	8.6
Cyclohexane		0.911	0.976	1.041	0.926	0.925	0.956	5.6
2-Butanone	0.448	0.486	0.538	0.567	0.500	0.510	0.508	8.1
Carbon Tetrachloride	0.439	0.466	0.491	0.558	0.520	0.528	0.500	8.7
cis-1,2-Dichloroethene	0.674	0.673	0.761	0.792	0.745	0.767	0.735	6.8
Bromochloromethane	0.501	0.611	0.482	0.450	0.500	0.523	0.511	10.7
Chloroform	1.070	1.238	1.309	1.316	1.269	1.293	1.249	7.4
1,1,1-Trichloroethane	0.873	1.005	1.133	1.184	1.119	1.149	1.077	10.9
Methylcyclohexane	0.544	0.556	0.564	0.656	0.574	0.576	0.578	6.9
Benzene	1.211	1.369	1.457	1.494	1.388	1.402	1.387	7
1,2-Dichloroethane	0.499	0.546	0.585	0.603	0.551	0.558	0.557	6.4
Trichloroethene	0.547	0.372	0.368	0.373	0.345	0.352	0.393	19.5
1,2-Dichloropropane	0.288	0.322	0.361	0.371	0.346	0.350	0.340	8.8
Bromodichloromethane	0.349	0.425	0.501	0.544	0.528	0.545	0.482	16.4
4-Methyl-2-Pentanone	0.437	0.527	0.562	0.606	0.539	0.548	0.537	10.4
Toluene	0.636	0.839	0.883	0.921	0.850	0.852	0.830	12

* 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.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043925.D RRF005 = VX043926.D RRF020 = VX043927.D
RRF050 = VX043928.D RRF100 = VX043929.D RRF150 = VX043930.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.341	0.413	0.507	0.569	0.549	0.570	0.491	19.2
cis-1,3-Dichloropropene	0.409	0.462	0.569	0.611	0.580	0.601	0.539	15.4
1,1,2-Trichloroethane	0.287	0.340	0.375	0.370	0.340	0.345	0.343	9.1
2-Hexanone	0.297	0.393	0.431	0.471	0.410	0.419	0.403	14.5
Dibromochloromethane	0.249	0.292	0.344	0.396	0.380	0.401	0.344	18
1,2-Dibromoethane	0.258	0.339	0.373	0.385	0.358	0.367	0.346	13.3
Tetrachloroethene	0.304	0.342	0.336	0.349	0.315	0.332	0.330	5.1
Chlorobenzene	1.050	1.109	1.107	1.145	1.069	1.108	1.098	3.1
Ethyl Benzene	1.579	1.831	1.910	2.024	1.884	1.938	1.861	8.2
m/p-Xylenes	0.610	0.663	0.704	0.762	0.700	0.725	0.694	7.6
o-Xylene	0.543	0.665	0.691	0.757	0.693	0.716	0.678	10.7
Styrene	0.859	1.025	1.174	1.263	1.186	1.217	1.121	13.5
Bromoform	0.145	0.200	0.222	0.284	0.286	0.306	0.240	25.9
Isopropylbenzene	3.435	3.927	3.996	4.097	3.679	3.927	3.843	6.3
1,1,2,2-Tetrachloroethane	1.198	1.356	1.375	1.393	1.260	1.314	1.316	5.7
1,3-Dichlorobenzene	1.580	1.656	1.701	1.764	1.623	1.696	1.670	3.9
1,4-Dichlorobenzene	1.730	1.638	1.706	1.782	1.650	1.710	1.702	3.1
1,2-Dichlorobenzene	1.506	1.733	1.723	1.768	1.642	1.740	1.685	5.8
1,2-Dibromo-3-Chloropropane	0.213	0.254	0.252	0.284	0.275	0.304	0.264	12
1,2,4-Trichlorobenzene	0.849	0.905	0.987	1.084	1.012	1.125	0.994	10.5
1,2,3-Trichlorobenzene	0.753	0.960	1.055	1.118	1.018	1.130	1.006	13.8
1,2-Dichloroethane-d4		0.926	0.876	0.751	0.855	0.880	0.858	7.6
Dibromofluoromethane		0.371	0.353	0.327	0.359	0.376	0.357	5.4
Toluene-d8		1.327	1.237	1.104	1.232	1.257	1.232	6.6
4-Bromofluorobenzene		0.401	0.414	0.387	0.438	0.455	0.419	6.6

* 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.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date/Time: 12/09/2024 09:42

Lab File ID: VX044174.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.633	0.610		-3.63	20
Chloromethane	0.667	0.648	0.1	-2.85	20
Vinyl Chloride	0.709	0.724		2.12	20
Bromomethane	0.436	0.494		13.3	20
Chloroethane	0.432	0.500		15.74	20
Trichlorofluoromethane	1.268	1.627		28.31	20
1,1,2-Trichlorotrifluoroethane	0.605	0.671		10.91	20
1,1-Dichloroethene	0.576	0.615		6.77	20
Acetone	0.394	0.454		15.23	20
Carbon Disulfide	1.188	1.224		3.03	20
Methyl tert-butyl Ether	2.092	2.437		16.49	20
Methyl Acetate	0.917	0.987		7.63	20
Methylene Chloride	0.668	0.701		4.94	20
trans-1,2-Dichloroethene	0.595	0.641		7.73	20
1,1-Dichloroethane	1.161	1.300	0.1	11.97	20
Cyclohexane	0.956	1.016		6.28	20
2-Butanone	0.508	0.578		13.78	20
Carbon Tetrachloride	0.500	0.592		18.4	20
cis-1,2-Dichloroethene	0.735	0.807		9.8	20
Bromochloromethane	0.511	0.481		-5.87	20
Chloroform	1.249	1.399		12.01	20
1,1,1-Trichloroethane	1.077	1.285		19.31	20
Methylcyclohexane	0.578	0.649		12.28	20
Benzene	1.387	1.514		9.16	20
1,2-Dichloroethane	0.557	0.636		14.18	20
Trichloroethene	0.393	0.381		-3.05	20
1,2-Dichloropropane	0.340	0.389		14.41	20
Bromodichloromethane	0.482	0.601		24.69	20
4-Methyl-2-Pentanone	0.537	0.626		16.57	20
Toluene	0.830	0.946		13.98	20
t-1,3-Dichloropropene	0.491	0.595		21.18	20
cis-1,3-Dichloropropene	0.539	0.643		19.3	20
1,1,2-Trichloroethane	0.343	0.391		13.99	20
2-Hexanone	0.403	0.478		18.61	20
Dibromochloromethane	0.344	0.434		26.16	20
1,2-Dibromoethane	0.346	0.408		17.92	20
Tetrachloroethene	0.330	0.372		12.73	20
Chlorobenzene	1.098	1.208	0.3	10.02	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date/Time: 12/09/2024 09:42

Lab File ID: VX044174.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.861	2.172		16.71	20
m/p-Xylenes	0.694	0.800		15.27	20
o-Xylene	0.678	0.805		18.73	20
Styrene	1.121	1.342		19.72	20
Bromoform	0.240	0.311	0.1	29.58	20
Isopropylbenzene	3.843	4.238		10.28	20
1,1,2,2-Tetrachloroethane	1.316	1.394	0.3	5.93	20
1,3-Dichlorobenzene	1.670	1.830		9.58	20
1,4-Dichlorobenzene	1.702	1.840		8.11	20
1,2-Dichlorobenzene	1.685	1.854		10.03	20
1,2-Dibromo-3-Chloropropane	0.264	0.314		18.94	20
1,2,4-Trichlorobenzene	0.994	1.113		11.87	20
1,2,3-Trichlorobenzene	1.006	1.129		12.23	20
1,2-Dichloroethane-d4	0.858	0.874		1.87	20
Dibromofluoromethane	0.357	0.368		3.08	20
Toluene-d8	1.232	1.205		-2.19	20
4-Bromofluorobenzene	0.419	0.452		7.88	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date/Time: 12/09/2024 18:00

Lab File ID: VX044195.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.633	0.478		-24.49	50
Chloromethane	0.667	0.536	0.1	-19.64	50
Vinyl Chloride	0.709	0.592		-16.5	50
Bromomethane	0.436	0.423		-2.98	50
Chloroethane	0.432	0.400		-7.41	50
Trichlorofluoromethane	1.268	1.210		-4.57	50
1,1,2-Trichlorotrifluoroethane	0.605	0.529		-12.56	50
1,1-Dichloroethene	0.576	0.505		-12.33	50
Acetone	0.394	0.326		-17.26	50
Carbon Disulfide	1.188	0.859		-27.69	50
Methyl tert-butyl Ether	2.092	2.131		1.86	50
Methyl Acetate	0.917	0.911		-0.65	50
Methylene Chloride	0.668	0.607		-9.13	50
trans-1,2-Dichloroethene	0.595	0.548		-7.9	50
1,1-Dichloroethane	1.161	1.137	0.1	-2.07	50
Cyclohexane	0.956	0.846		-11.51	50
2-Butanone	0.508	0.505		-0.59	50
Carbon Tetrachloride	0.500	0.471		-5.8	50
cis-1,2-Dichloroethene	0.735	0.696		-5.31	50
Bromochloromethane	0.511	0.452		-11.55	50
Chloroform	1.249	1.249		0	50
1,1,1-Trichloroethane	1.077	1.070		-0.65	50
Methylcyclohexane	0.578	0.498		-13.84	50
Benzene	1.387	1.310		-5.55	50
1,2-Dichloroethane	0.557	0.548		-1.62	50
Trichloroethene	0.393	0.325		-17.3	50
1,2-Dichloropropane	0.340	0.329		-3.23	50
Bromodichloromethane	0.482	0.493		2.28	50
4-Methyl-2-Pentanone	0.537	0.582		8.38	50
Toluene	0.830	0.816		-1.69	50
t-1,3-Dichloropropene	0.491	0.500		1.83	50
cis-1,3-Dichloropropene	0.539	0.525		-2.6	50
1,1,2-Trichloroethane	0.343	0.348		1.46	50
2-Hexanone	0.403	0.436		8.19	50
Dibromochloromethane	0.344	0.349		1.45	50
1,2-Dibromoethane	0.346	0.358		3.47	50
Tetrachloroethene	0.330	0.306		-7.27	50
Chlorobenzene	1.098	1.042	0.3	-5.1	50

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date/Time: 12/09/2024 18:00

Lab File ID: VX044195.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.861	1.827		-1.83	50
m/p-Xylenes	0.694	0.678		-2.31	50
o-Xylene	0.678	0.681		0.44	50
Styrene	1.121	1.134		1.16	50
Bromoform	0.240	0.240	0.1	0	50
Isopropylbenzene	3.843	3.670		-4.5	50
1,1,2,2-Tetrachloroethane	1.316	1.278	0.3	-2.89	50
1,3-Dichlorobenzene	1.670	1.584		-5.15	50
1,4-Dichlorobenzene	1.702	1.590		-6.58	50
1,2-Dichlorobenzene	1.685	1.617		-4.04	50
1,2-Dibromo-3-Chloropropane	0.264	0.268		1.51	50
1,2,4-Trichlorobenzene	0.994	0.914		-8.05	50
1,2,3-Trichlorobenzene	1.006	0.964		-4.18	50
1,2-Dichloroethane-d4	0.858	0.801		-6.64	50
Dibromofluoromethane	0.357	0.327		-8.4	50
Toluene-d8	1.232	1.104		-10.39	50
4-Bromofluorobenzene	0.419	0.414		-1.19	50

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date/Time: 12/10/2024 10:43

Lab File ID: VX044197.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.633	0.527		-16.75	20
Chloromethane	0.667	0.569	0.1	-14.69	20
Vinyl Chloride	0.709	0.628		-11.43	20
Bromomethane	0.436	0.455		4.36	20
Chloroethane	0.432	0.424		-1.85	20
Trichlorofluoromethane	1.268	1.418		11.83	20
1,1,2-Trichlorotrifluoroethane	0.605	0.606		0.17	20
1,1-Dichloroethene	0.576	0.529		-8.16	20
Acetone	0.394	0.458		16.24	20
Carbon Disulfide	1.188	0.962		-19.02	20
Methyl tert-butyl Ether	2.092	2.233		6.74	20
Methyl Acetate	0.917	1.022		11.45	20
Methylene Chloride	0.668	0.637		-4.64	20
trans-1,2-Dichloroethene	0.595	0.573		-3.7	20
1,1-Dichloroethane	1.161	1.178	0.1	1.46	20
Cyclohexane	0.956	0.924		-3.35	20
2-Butanone	0.508	0.601		18.31	20
Carbon Tetrachloride	0.500	0.529		5.8	20
cis-1,2-Dichloroethene	0.735	0.749		1.9	20
Bromochloromethane	0.511	0.489		-4.3	20
Chloroform	1.249	1.296		3.76	20
1,1,1-Trichloroethane	1.077	1.143		6.13	20
Methylcyclohexane	0.578	0.582		0.69	20
Benzene	1.387	1.399		0.87	20
1,2-Dichloroethane	0.557	0.598		7.36	20
Trichloroethene	0.393	0.358		-8.91	20
1,2-Dichloropropane	0.340	0.365		7.35	20
Bromodichloromethane	0.482	0.545		13.07	20
4-Methyl-2-Pentanone	0.537	0.657		22.35	20
Toluene	0.830	0.892		7.47	20
t-1,3-Dichloropropene	0.491	0.566		15.27	20
cis-1,3-Dichloropropene	0.539	0.591		9.65	20
1,1,2-Trichloroethane	0.343	0.382		11.37	20
2-Hexanone	0.403	0.515		27.79	20
Dibromochloromethane	0.344	0.401		16.57	20
1,2-Dibromoethane	0.346	0.404		16.76	20
Tetrachloroethene	0.330	0.336		1.82	20
Chlorobenzene	1.098	1.144	0.3	4.19	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date/Time: 12/10/2024 10:43

Lab File ID: VX044197.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.861	2.022		8.65	20
m/p-Xylenes	0.694	0.751		8.21	20
o-Xylene	0.678	0.748		10.32	20
Styrene	1.121	1.260		12.4	20
Bromoform	0.240	0.284	0.1	18.33	20
Isopropylbenzene	3.843	4.048		5.33	20
1,1,2,2-Tetrachloroethane	1.316	1.422	0.3	8.06	20
1,3-Dichlorobenzene	1.670	1.754		5.03	20
1,4-Dichlorobenzene	1.702	1.759		3.35	20
1,2-Dichlorobenzene	1.685	1.803		7	20
1,2-Dibromo-3-Chloropropane	0.264	0.303		14.77	20
1,2,4-Trichlorobenzene	0.994	1.061		6.74	20
1,2,3-Trichlorobenzene	1.006	1.115		10.84	20
1,2-Dichloroethane-d4	0.858	0.878		2.33	20
Dibromofluoromethane	0.357	0.374		4.76	20
Toluene-d8	1.232	1.265		2.68	20
4-Bromofluorobenzene	0.419	0.460		9.78	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date/Time: 12/10/2024 18:44

Lab File ID: VX044217.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.633	0.496		-21.64	50
Chloromethane	0.667	0.566	0.1	-15.14	50
Vinyl Chloride	0.709	0.616		-13.12	50
Bromomethane	0.436	0.441		1.15	50
Chloroethane	0.432	0.416		-3.7	50
Trichlorofluoromethane	1.268	1.286		1.42	50
1,1,2-Trichlorotrifluoroethane	0.605	0.555		-8.26	50
1,1-Dichloroethene	0.576	0.521		-9.55	50
Acetone	0.394	0.357		-9.39	50
Carbon Disulfide	1.188	0.842		-29.13	50
Methyl tert-butyl Ether	2.092	2.267		8.36	50
Methyl Acetate	0.917	0.993		8.29	50
Methylene Chloride	0.668	0.651		-2.55	50
trans-1,2-Dichloroethene	0.595	0.559		-6.05	50
1,1-Dichloroethane	1.161	1.194	0.1	2.84	50
Cyclohexane	0.956	0.852		-10.88	50
2-Butanone	0.508	0.539		6.1	50
Carbon Tetrachloride	0.500	0.466		-6.8	50
cis-1,2-Dichloroethene	0.735	0.744		1.22	50
Bromochloromethane	0.511	0.464		-9.2	50
Chloroform	1.249	1.314		5.2	50
1,1,1-Trichloroethane	1.077	1.126		4.55	50
Methylcyclohexane	0.578	0.493		-14.71	50
Benzene	1.387	1.288		-7.14	50
1,2-Dichloroethane	0.557	0.549		-1.44	50
Trichloroethene	0.393	0.315		-19.85	50
1,2-Dichloropropane	0.340	0.336		-1.18	50
Bromodichloromethane	0.482	0.497		3.11	50
4-Methyl-2-Pentanone	0.537	0.594		10.61	50
Toluene	0.830	0.815		-1.81	50
t-1,3-Dichloropropene	0.491	0.497		1.22	50
cis-1,3-Dichloropropene	0.539	0.534		-0.93	50
1,1,2-Trichloroethane	0.343	0.350		2.04	50
2-Hexanone	0.403	0.444		10.17	50
Dibromochloromethane	0.344	0.358		4.07	50
1,2-Dibromoethane	0.346	0.362		4.62	50
Tetrachloroethene	0.330	0.309		-6.36	50
Chlorobenzene	1.098	1.073	0.3	-2.28	50

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: MSVOA_X Calibration Date/Time: 12/10/2024 18:44

Lab File ID: VX044217.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.861	1.866		0.27	50
m/p-Xylenes	0.694	0.686		-1.15	50
o-Xylene	0.678	0.698		2.95	50
Styrene	1.121	1.176		4.91	50
Bromoform	0.240	0.254	0.1	5.83	50
Isopropylbenzene	3.843	3.780		-1.64	50
1,1,2,2-Tetrachloroethane	1.316	1.342	0.3	1.98	50
1,3-Dichlorobenzene	1.670	1.628		-2.52	50
1,4-Dichlorobenzene	1.702	1.600		-5.99	50
1,2-Dichlorobenzene	1.685	1.644		-2.43	50
1,2-Dibromo-3-Chloropropane	0.264	0.280		6.06	50
1,2,4-Trichlorobenzene	0.994	0.956		-3.82	50
1,2,3-Trichlorobenzene	1.006	0.973		-3.28	50
1,2-Dichloroethane-d4	0.858	0.913		6.41	50
Dibromofluoromethane	0.357	0.351		-1.68	50
Toluene-d8	1.232	1.161		-5.76	50
4-Bromofluorobenzene	0.419	0.428		2.15	50

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

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LAB CHRONICLE

OrderID:	P5164	**OrderDate:**	12/6/2024 1:09:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5164-01	**RE108D2-20241206**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/09/24	
P5164-02	**RE108D1-20241206**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/09/24	
P5164-03	**RE105D1-20241206**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/09/24	
P5164-04	**RE105D2-20241206**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/09/24	
P5164-06	**FB-20241206**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/09/24	

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Hit Summary Sheet
SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RE108D2-20241206									
P5164-01	RE108D2-20241206	WATER	1,4-Dioxane	2.500		0.07	0.2	0.2	ug/L
			Total Svoc :			**2.50**			
			Total Concentration:			**2.50**			
Client ID : RE108D1-20241206									
P5164-02	RE108D1-20241206	WATER	1,4-Dioxane	3.100		0.07	0.2	0.2	ug/L
			Total Svoc :			**3.10**			
			Total Concentration:			**3.10**			
Client ID : RE105D1-20241206									
P5164-03	RE105D1-20241206	WATER	1,4-Dioxane	4.900		0.07	0.21	0.21	ug/L
			Total Svoc :			**4.90**			
			Total Concentration:			**4.90**			
Client ID : RE105D2-20241206									
P5164-04	RE105D2-20241206	WATER	1,4-Dioxane	4.300		0.07	0.2	0.2	ug/L
			Total Svoc :			**4.30**			
			Total Concentration:			**4.30**			

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-01	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035512.D	1	12/09/24 11:27	12/09/24 18:19	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.50		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	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		161%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1620	7.301				
1146-65-2	Naphthalene-d8	4620	10.041				
15067-26-2	Acenaphthene-d10	3280	13.957				
1517-22-2	Phenanthrene-d10	7900	16.723				
1719-03-5	Chrysene-d12	7070	20.965				
1520-96-3	Perylene-d12	7060	23.059				

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE108D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-02	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035513.D	1	12/09/24 11:27	12/09/24 18:55	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		161%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1500	7.3				
1146-65-2	Naphthalene-d8	4290	10.041				
15067-26-2	Acenaphthene-d10	3270	13.956				
1517-22-2	Phenanthrene-d10	7860	16.723				
1719-03-5	Chrysene-d12	6610	20.965				
1520-96-3	Perylene-d12	6390	23.061				

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D1-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-03	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035515.D	1	12/09/24 11:27	12/09/24 20:07	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.90		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.71	*	58 - 132		178%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1530	7.301				
1146-65-2	Naphthalene-d8	4180	10.041				
15067-26-2	Acenaphthene-d10	3190	13.957				
1517-22-2	Phenanthrene-d10	7890	16.723				
1719-03-5	Chrysene-d12	6610	20.965				
1520-96-3	Perylene-d12	6380	23.062				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	RE105D2-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-04	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035514.D	1	12/09/24 11:27	12/09/24 19:31	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.67	*	58 - 132		166%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1520	7.3				
1146-65-2	Naphthalene-d8	4180	10.041				
15067-26-2	Acenaphthene-d10	3090	13.956				
1517-22-2	Phenanthrene-d10	7600	16.723				
1719-03-5	Chrysene-d12	6220	20.965				
1520-96-3	Perylene-d12	6150	23.061				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

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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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/06/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/06/24
Client Sample ID:	FB-20241206	SDG No.:	P5164
Lab Sample ID:	P5164-06	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035516.D	1	12/09/24 11:27	12/09/24 20:43	PB165497

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	0.41		30 - 150		101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45		55 - 111		111%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		110%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.70	*	58 - 132		174%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1690	7.301				
1146-65-2	Naphthalene-d8	4710	10.041				
15067-26-2	Acenaphthene-d10	3570	13.957				
1517-22-2	Phenanthrene-d10	8430	16.723				
1719-03-5	Chrysene-d12	7110	20.965				
1520-96-3	Perylene-d12	6620	23.062				

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

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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P5164-01	RE108D2-20241206	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.43	106		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.64	161	*	58	132
P5164-02	RE108D1-20241206	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.64	161	*	58	132
P5164-03	RE105D1-20241206	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.71	178	*	58	132
P5164-04	RE105D2-20241206	2-Methylnaphthalene-d10	0.4	0.39	96		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.67	166	*	58	132
P5164-06	FB-20241206	2-Methylnaphthalene-d10	0.4	0.41	101		30	150
		Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.45	111		55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.70	174	*	58	132
PB165497BL	PB165497BL	2-Methylnaphthalene-d10	0.4	0.46	114		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.45	113	*	55	111
		2-Fluorobiphenyl	0.4	0.43	106		53	106
		Terphenyl-d14	0.4	0.56	141	*	58	132
PB165497BS	PB165497BS	2-Methylnaphthalene-d10	0.4	0.53	133		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.41	102		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.48	119		58	132
PB165497BSD	PB165497BSD	2-Methylnaphthalene-d10	0.4	0.53	133		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.48	119		58	132

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Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035528.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165497BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5164

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035529.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165497BSD	1,4-Dioxane	0.4	0.35	ug/L	88	3			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165497BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

Lab File ID: BN035511.D Lab Sample ID: PB165497BL

Instrument ID: BNA_N Date Extracted: 12/09/2024

Matrix: (soil/water) Water Date Analyzed: 12/09/2024

Level: (low/med) LOW Time Analyzed: 17:43

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RE105D2-20241206	P5164-04	BN035514.D	12/09/2024
RE105D1-20241206	P5164-03	BN035515.D	12/09/2024
FB-20241206	P5164-06	BN035516.D	12/09/2024
PB165497BS	PB165497BS	BN035528.D	12/10/2024
PB165497BSD	PB165497BSD	BN035529.D	12/10/2024
RE108D2-20241206	P5164-01	BN035512.D	12/09/2024
RE108D1-20241206	P5164-02	BN035513.D	12/09/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5164 SDG NO.: P5164

Lab File ID: BN035349.D DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_N DFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14 (19.7) 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	BN035350.D	11/27/2024	15:34
SSTDICC0.2	SSTDICC0.2	BN035351.D	11/27/2024	16:10
SSTDICCC0.4	SSTDICCC0.4	BN035352.D	11/27/2024	16:46
SSTDICC0.8	SSTDICC0.8	BN035353.D	11/27/2024	17:21
SSTDICC1.6	SSTDICC1.6	BN035354.D	11/27/2024	17:57
SSTDICC3.2	SSTDICC3.2	BN035355.D	11/27/2024	18:33
SSTDICC5.0	SSTDICC5.0	BN035356.D	11/27/2024	19:09

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5164 SDG NO.: P5164

Lab File ID: BN035509.D DFTPP Injection Date: 12/09/2024

Instrument ID: BNA_N DFTPP Injection Time: 16:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.2
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	41.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	9.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (18.8) 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	BN035510.D	12/09/2024	17:07
PB165497BL	PB165497BL	BN035511.D	12/09/2024	17:43
RE108D2-20241206	P5164-01	BN035512.D	12/09/2024	18:19
RE108D1-20241206	P5164-02	BN035513.D	12/09/2024	18:55
RE105D2-20241206	P5164-04	BN035514.D	12/09/2024	19:31
RE105D1-20241206	P5164-03	BN035515.D	12/09/2024	20:07
FB-20241206	P5164-06	BN035516.D	12/09/2024	20:43
SSTDCCC0.4EC	SSTDCCC0.4	BN035523.D	12/10/2024	00:55

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: P5164 SDG NO.: P5164

Lab File ID: BN035524.D DFTPP Injection Date: 12/10/2024

Instrument ID: BNA_N DFTPP Injection Time: 08:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	41.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	10.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.2 (19.7) 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	BN035525.D	12/10/2024	09:33
PB165497BS	PB165497BS	BN035528.D	12/10/2024	11:21
PB165497BSD	PB165497BSD	BN035529.D	12/10/2024	12:03
SSTDCCC0.4EC	SSTDCCC0.4	BN035530.D	12/10/2024	12:40

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/09/2024

Lab File ID: BN035510.D Time Analyzed: 17:07

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	1975	7.3	5582	10.04	4021	13.96
	UPPER LIMIT	3950	7.8	11164	10.541	8042	14.456
	LOWER LIMIT	987.5	6.8	2791	9.541	2010.5	13.456
	EPA SAMPLE NO.						
01	PB165497BL	1641	7.30	4578	10.05	3247	13.96
02	RE108D2-20241206	1616	7.30	4623	10.04	3281	13.96
03	RE108D1-20241206	1500	7.30	4288	10.04	3273	13.96
04	RE105D1-20241206	1526	7.30	4181	10.04	3189	13.96
05	RE105D2-20241206	1515	7.30	4180	10.04	3091	13.96
06	FB-20241206	1690	7.30	4712	10.04	3572	13.96

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/09/2024

Lab File ID: BN035510.D Time Analyzed: 17:07

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	9077	16.723	8166	20.965	8385	23.059
	UPPER LIMIT	18154	17.223	16332	21.465	16770	23.559
	LOWER LIMIT	4538.5	16.223	4083	20.465	4192.5	22.559
	EPA SAMPLE NO.						
01	PB165497BL	7570	16.74	6431	20.97	6251	23.07
02	RE108D2-20241206	7900	16.72	7073	20.97	7058	23.06
03	RE108D1-20241206	7859	16.72	6610	20.97	6392	23.06
04	RE105D1-20241206	7888	16.72	6613	20.97	6375	23.06
05	RE105D2-20241206	7600	16.72	6224	20.97	6145	23.06
06	FB-20241206	8431	16.72	7106	20.97	6618	23.06

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/10/2024

Lab File ID: BN035525.D Time Analyzed: 09:33

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	2237	7.293	6161	10.04	4478	13.96
	UPPER LIMIT	4474	7.793	12322	10.541	8956	14.457
	LOWER LIMIT	1118.5	6.793	3080.5	9.541	2239	13.457
	EPA SAMPLE NO.						
01	PB165497BSD	1941	7.29	5150	10.04	3668	13.96
02	PB165497BS	1669	7.30	4431	10.04	3092	13.96

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG NO.: P5164

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/10/2024

Lab File ID: BN035525.D Time Analyzed: 09:33

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	11122	16.723	9383	20.965	8820	23.059
	UPPER LIMIT	22244	17.223	18766	21.465	17640	23.559
	LOWER LIMIT	5561	16.223	4691.5	20.465	4410	22.559
	EPA SAMPLE NO.						
01	PB165497BSD	9298	16.72	7541	20.97	6738	23.06
02	PB165497BS	7959	16.72	6696	20.96	5945	23.06

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165497BL	SDG No.:	P5164
Lab Sample ID:	PB165497BL	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035511.D	1	12/09/24 11:27	12/09/24 17:43	PB165497

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	0.46		30 - 150		114%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		113%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43		53 - 106		106%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		141%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1640	7.3				
1146-65-2	Naphthalene-d8	4580	10.052				
15067-26-2	Acenaphthene-d10	3250	13.957				
1517-22-2	Phenanthrene-d10	7570	16.736				
1719-03-5	Chrysene-d12	6430	20.974				
1520-96-3	Perylene-d12	6250	23.067				

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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165497BS	SDG No.:	P5164
Lab Sample ID:	PB165497BS	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035528.D	1	12/09/24 11:27	12/10/24 11:21	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		133%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1670	7.3				
1146-65-2	Naphthalene-d8	4430	10.041				
15067-26-2	Acenaphthene-d10	3090	13.956				
1517-22-2	Phenanthrene-d10	7960	16.723				
1719-03-5	Chrysene-d12	6700	20.964				
1520-96-3	Perylene-d12	5950	23.058				

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

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB165497BSD	SDG No.:	P5164
Lab Sample ID:	PB165497BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035529.D	1	12/09/24 11:27	12/10/24 12:03	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		133%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1940	7.293				
1146-65-2	Naphthalene-d8	5150	10.041				
15067-26-2	Acenaphthene-d10	3670	13.957				
1517-22-2	Phenanthrene-d10	9300	16.723				
1719-03-5	Chrysene-d12	7540	20.965				
1520-96-3	Perylene-d12	6740	23.062				

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

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.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	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)		n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4)	S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5)	S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)		bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)		Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)		Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11)	SURR	2-Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)		2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15)	S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)		Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)		Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)		Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)		4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)		Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)		Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)		Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)		Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)		Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27)	SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)		Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31)	S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)		Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)		Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)		Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M

36)		Indeno(1,2,3-c...	1.411	1.489	1.532	1.554	1.660	1.615	1.685	1.564	6.22
37)		Benzo(b)fluora...	1.305	1.348	1.313	1.378	1.827	1.463	1.608	1.463	13.12
38)		Benzo(k)fluora...	1.444	1.376	1.402	1.419	1.527	1.447	1.468	1.440	3.39
39)	C	Benzo(a)pyrene	1.204	1.156	1.146	1.171	1.256	1.232	1.271	1.205	4.11
40)		Dibenzo(a,h)an...	1.104	1.187	1.194	1.226	1.315	1.280	1.332	1.234	6.55
41)		Benzo(g,h,i)pe...	1.188	1.238	1.248	1.269	1.360	1.330	1.394	1.289	5.71

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: BNA_N Calibration Date/Time: 12/09/2024 17:07

Lab File ID: BN035510.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.627		0.2	20.0
Fluoranthene-d10	1.134	1.031		-9.1	20.0
2-Fluorophenol	1.001	1.045		4.4	20.0
Phenol-d6	1.204	1.324		10.0	20.0
Nitrobenzene-d5	0.244	0.260		6.6	20.0
2-Fluorobiphenyl	1.512	1.514		0.1	20.0
2,4,6-Tribromophenol	0.284	0.274		-3.5	20.0
Terphenyl-d14	0.789	0.816		3.4	20.0
1,4-Dioxane	0.382	0.363		-5.0	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 00:55

Lab File ID: BN035523.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.625		-0.2	50.0
Fluoranthene-d10	1.134	1.005		-11.4	50.0
2-Fluorophenol	1.001	1.013		1.2	50.0
Phenol-d6	1.204	1.247		3.6	50.0
Nitrobenzene-d5	0.244	0.265		8.6	50.0
2-Fluorobiphenyl	1.512	1.447		-4.3	50.0
2,4,6-Tribromophenol	0.284	0.266		-6.3	50.0
Terphenyl-d14	0.789	0.812		2.9	50.0
1,4-Dioxane	0.382	0.386		1.0	50.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 09:33

Lab File ID: BN035525.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.622		-0.6	20.0
Fluoranthene-d10	1.134	0.995		-12.3	20.0
2-Fluorophenol	1.001	1.042		4.1	20.0
Phenol-d6	1.204	1.276		6.0	20.0
Nitrobenzene-d5	0.244	0.257		5.3	20.0
2-Fluorobiphenyl	1.512	1.496		-1.1	20.0
2,4,6-Tribromophenol	0.284	0.249		-12.3	20.0
Terphenyl-d14	0.789	0.834		5.7	20.0
1,4-Dioxane	0.382	0.382		0.0	20.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5164 SAS No.: P5164 SDG No.: P5164

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 12:40

Lab File ID: BN035530.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.609		-2.7	50.0
Fluoranthene-d10	1.134	0.937		-17.4	50.0
2-Fluorophenol	1.001	0.987		-1.4	50.0
Phenol-d6	1.204	1.206		0.2	50.0
Nitrobenzene-d5	0.244	0.255		4.5	50.0
2-Fluorobiphenyl	1.512	1.456		-3.7	50.0
2,4,6-Tribromophenol	0.284	0.253		-10.9	50.0
Terphenyl-d14	0.789	0.823		4.3	50.0
1,4-Dioxane	0.382	0.377		-1.3	50.0

All other compounds must meet a minimum RRF of 0.010.