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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG No.: BF082024

Instrument ID: BNA_F Calibration Date/Time: 8/20/2024 12 19:10

Lab File ID: BF139082.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.856	0.794		-7.243	
Pyridine	1.417	1.361		-3.952	
2-Fluorophenol	1.300	1.225		-5.769	
Benzaldehyde	0.985	0.921		-6.497	
Aniline	1.516	1.511		-0.33	
Phenol-d6	1.680	1.612		-4.048	
Phenol	1.748	1.709		-2.231	20.0
bis(2-Chloroethyl)ether	1.406	1.261		-10.313	
2-Chlorophenol	1.250	1.194		-4.48	
1,2-Dichlorobenzene	1.374	1.341		-2.402	
1,3-Dichlorobenzene	1.503	1.434		-4.591	
1,4-Dichlorobenzene	1.503	1.440		-4.192	20.0
Benzyl Alcohol	1.328	1.280		-3.614	
2-Methylphenol	1.070	1.029		-3.832	
2,2-oxybis(1-Chloropropane)	1.980	1.850		-6.566	
Acetophenone	0.511	0.504		-1.37	
3+4-Methylphenols	1.386	1.348		-2.742	
n-Nitroso-di-n-propylamine	1.103	1.005	0.050	-8.885	
Nitrobenzene-d5	0.343	0.360		4.956	
Hexachloroethane	0.527	0.507		-3.795	
Nitrobenzene	0.382	0.395		3.403	
Isophorone	0.730	0.717		-1.781	
2-Nitrophenol	0.110	0.118		7.273	20.0
2,4-Dimethylphenol	0.231	0.223		-3.463	
bis(2-Chloroethoxy)methane	0.426	0.410		-3.756	
2,4-Dichlorophenol	0.288	0.287		-0.347	20.0
1,2,4-Trichlorobenzene	0.337	0.331		-1.78	
Benzoic acid	0.167	0.167		0.0	
Naphthalene	1.014	0.997		-1.677	
4-Chloroaniline	0.347	0.347		0.0	
Hexachlorobutadiene	0.220	0.216		-1.818	20.0
Caprolactam	0.091	0.092		1.099	
4-Chloro-3-methylphenol	0.319	0.319		0.0	20.0
2-Methylnaphthalene	0.650	0.629		-3.231	
Hexachlorocyclopentadiene	0.210	0.214	0.050	1.905	
2,4,6-Trichlorophenol	0.370	0.356		-3.784	20.0
2-Fluorobiphenyl	1.261	1.207		-4.282	
2,4,5-Trichlorophenol	0.379	0.386		1.847	
1,1-Biphenyl	1.370	1.374		0.292	

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Instrument ID: BNA_F Calibration Date/Time: 8/20/2024 12 19:10

Lab File ID: BF139082.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.113	1.087		-2.336	
2-Nitroaniline	0.262	0.285		8.779	
Dimethylphthalate	1.235	1.236		0.081	
Acenaphthylene	1.595	1.587		-0.502	
2,6-Dinitrotoluene	0.206	0.236		14.563	
3-Nitroaniline	0.213	0.241		13.146	
Acenaphthene	1.053	1.027		-2.469	20.0
2,4-Dinitrophenol	0.074	0.072	0.050	-2.703	
4-Nitrophenol	0.187	0.195	0.050	4.278	
Dibenzofuran	1.530	1.518		-0.784	
2,4-Dinitrotoluene	0.250	0.289		15.6	
Diethylphthalate	1.223	1.222		-0.082	
4-Chlorophenyl-phenylether	0.611	0.589		-3.601	
Fluorene	1.223	1.195		-2.289	
4-Nitroaniline	0.219	0.244		11.416	
4,6-Dinitro-2-methylphenol	0.064	0.064		0.0	
n-Nitrosodiphenylamine	0.592	0.571		-3.547	20.0
Azobenzene	1.360	1.334		-1.912	
2,4,6-Tribromophenol	0.181	0.190		4.972	
4-Bromophenyl-phenylether	0.212	0.207		-2.358	
Hexachlorobenzene	0.227	0.220		-3.084	
Atrazine	0.181	0.147		-18.785	
Pentachlorophenol	0.145	0.149		2.759	20.0
Phenanthrene	1.017	0.968		-4.818	
Anthracene	0.994	0.953		-4.125	
Carbazole	0.928	0.892		-3.879	
Di-n-butylphthalate	1.076	1.019		-5.297	
Fluoranthene	1.085	1.050		-3.226	20.0
Benzidine	0.413	0.505		22.276	
Pyrene	1.669	1.688		1.138	
Terphenyl-d14	1.205	1.212		0.581	
Butylbenzylphthalate	0.577	0.610		5.719	
3,3-Dichlorobenzidine	0.367	0.349		-4.905	
Benzo(a)anthracene	1.315	1.301		-1.065	
Chrysene	1.192	1.153		-3.272	
Bis(2-ethylhexyl)phthalate	0.765	0.779		1.83	
Di-n-octyl phthalate	1.074	1.030		-4.097	20.0
Benzo(b)fluoranthene	1.304	1.257		-3.604	
Benzo(k)fluoranthene	1.086	1.076		-0.921	

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Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG No.: BF082024

Instrument ID: BNA_F Calibration Date/Time: 8/20/2024 12 19:10

Lab File ID: BF139082.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.030	1.014		-1.553	20.0
Indeno(1,2,3-cd)pyrene	1.171	1.298		10.845	
Dibenzo(a,h)anthracene	0.961	1.078		12.175	
Benzo(g,h,i)perylene	0.969	1.106		14.138	
1,2,4,5-Tetrachlorobenzene	0.609	0.560		-8.046	
1,4-Dioxane	0.558	0.553		-0.896	20.0
2,3,4,6-Tetrachlorophenol	0.305	0.313		2.623	
1-Methylnaphthalene	0.627	0.613		-2.233	

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBF082024		SDG No.:	BF082024	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% Moisture:	100	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	1000000	uL
Soil Aliquot Vol:		uL	Test:		
Extraction Type :		Decanted :	Level :	LOW	
Injection Volume :		GPC Factor :	GPC Cleanup :		PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139086.D	1		8/20/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	37600		1000	8000	10000	ug/L
110-86-1	Pyridine	39600		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	39700		4000	8000	10000	ug/L
62-53-3	Aniline	40200		1600	4000	5000	ug/L
108-95-2	Phenol	39500		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	36400		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	39300		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39500		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	38900		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39300		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	39300		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	39500		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37900		1400	4000	5000	ug/L
98-86-2	Acetophenone	39100		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	38900		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	37200		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	39500		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	44800		1300	4000	5000	ug/L
78-59-1	Isophorone	39800		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	44300		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	39400		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	38600		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	40400		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39100		1100	4000	5000	ug/L
65-85-0	Benzoic acid	44700		5500	8000	10000	ug/L
91-20-3	Naphthalene	39500		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	39700		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	40100		1300	4000	5000	ug/L

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBF082024		SDG No.:	BF082024	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% Moisture:	100	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	1000000	uL
Soil Aliquot Vol:		uL	Test:		
Extraction Type :		Decanted :	Level :	LOW	
Injection Volume :		GPC Factor :	GPC Cleanup :		PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139086.D	1		8/20/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	41500		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	40000		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	38800		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	40400		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	41300		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	39400		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	39900		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	38700		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	43600		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39600		930	4000	5000	ug/L
208-96-8	Acenaphthylene	39500		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	43800		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	43200		1400	4000	5000	ug/L
83-32-9	Acenaphthene	39300		810	4000	5000	ug/L
Total PAH	Total PAH	634800		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	48100		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	46600		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	39500		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	44200		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	88000		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	39800		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38600		980	4000	5000	ug/L
86-73-7	Fluorene	38800		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	43300		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	46800		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	38000		890	4000	5000	ug/L
103-33-3	Azobenzene	39000		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	38600		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	38800		1100	4000	5000	ug/L
1912-24-9	Atrazine	31800		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF082024			SDG No.:	BF082024
Lab Sample ID:	SSTDICV040			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139086.D	1		8/20/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	42300		1900	8000	10000	ug/L
85-01-8	Phenanthrene	37600		890	4000	5000	ug/L
120-12-7	Anthracene	38000		1100	4000	5000	ug/L
86-74-8	Carbazole	38000		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	37700		1500	4000	5000	ug/L
206-44-0	Fluoranthene	37800		1300	4000	5000	ug/L
92-87-5	Benzidine	31500		4100	8000	10000	ug/L
129-00-0	Pyrene	41700		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	43900		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	36800		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	39000		940	4000	5000	ug/L
218-01-9	Chrysene	38800		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42600		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	39900		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	36200		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	39300		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	38700		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45100		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	45100		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	40400		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40600		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	39600		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42100		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	39100		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	77377	*	10-139		51585	SPK: -150
13127-88-3	Phenol-d6	78276	*	10-134		52184	SPK: -150
4165-60-0	Nitrobenzene-d5	93532	*	49-133		93532	SPK: -100
321-60-8	2-Fluorobiphenyl	76128	*	52-132		76128	SPK: -100

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Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBF082024			SDG No.:	BF082024		
Lab Sample ID:	SSTDICV040			Matrix:	Water		
Analytical Method:	8270E			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000		uL
Soil Aliquot Vol:			uL	Test:			
Extraction Type :			Decanted :	Level :	LOW		
Injection Volume :			GPC Factor :	GPC Cleanup :		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139086.D	1		8/20/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	87807	*	44-137		58538	SPK: -150
1718-51-0	Terphenyl-d14	84453	*	48-125		84453	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	131503	6.898				
1146-65-2	Naphthalene-d8	482835	8.181				
15067-26-2	Acenaphthene-d10	279151	9.933				
1517-22-2	Phenanthrene-d10	504492	11.422				
1719-03-5	Chrysene-d12	299101	14.063				
1520-96-3	Perylene-d12	259634	15.533				

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Report of Analysis

Client:				Date Collected:	8/13/2024 12:00:00 AM
Project:				Date Received:	8/13/2024 12:00:00 AM
Client Sample ID:	PB162687BL			SDG No.:	BF082024
Lab Sample ID:	PB162687BL			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139087.D	1	8/13/2024 12:00:00 AM	8/20/2024 12:00:00 AM	PB162687

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1	U	1	8	10	ug/L
110-86-1	Pyridine	1.6	U	1.6	4	5	ug/L
100-52-7	Benzaldehyde	4	U	4	8	10	ug/L
62-53-3	Aniline	1.6	U	1.6	4	5	ug/L
108-95-2	Phenol	0.93	U	0.93	4	5	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.2	U	1.2	4	5	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	4	5	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	4	5	ug/L
541-73-1	1,3-Dichlorobenzene	0.8	U	0.8	4	5	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	4	5	ug/L
100-51-6	Benzyl Alcohol	1.6	U	1.6	8	10	ug/L
95-48-7	2-Methylphenol	1.1	U	1.1	4	5	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.4	U	1.4	4	5	ug/L
98-86-2	Acetophenone	1.1	U	1.1	4	5	ug/L
65794-96-9	3+4-Methylphenols	1.2	U	1.2	8	10	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.5	U	1.5	2.5	2.5	ug/L
67-72-1	Hexachloroethane	1	U	1	4	5	ug/L
98-95-3	Nitrobenzene	1.3	U	1.3	4	5	ug/L
78-59-1	Isophorone	1.1	U	1.1	4	5	ug/L
88-75-5	2-Nitrophenol	2	U	2	4	5	ug/L
105-67-9	2,4-Dimethylphenol	1.5	U	1.5	4	5	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1	U	1	4	5	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	4	5	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.1	U	1.1	4	5	ug/L
65-85-0	Benzoic acid	5.5	U	5.5	8	10	ug/L
91-20-3	Naphthalene	1	U	1	4	5	ug/L
106-47-8	4-Chloroaniline	1.3	U	1.3	4	5	ug/L
87-68-3	Hexachlorobutadiene	1.3	U	1.3	4	5	ug/L

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Report of Analysis

Client:				Date Collected:	8/13/2024 12:00:00 AM
Project:				Date Received:	8/13/2024 12:00:00 AM
Client Sample ID:	PB162687BL			SDG No.:	BF082024
Lab Sample ID:	PB162687BL			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139087.D	1	8/13/2024 12:00:00 AM	8/20/2024 12:00:00 AM	PB162687

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1.7	U	1.7	8	10	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	4	5	ug/L
91-57-6	2-Methylnaphthalene	1.1	U	1.1	4	5	ug/L
77-47-4	Hexachlorocyclopentadiene	5	U	5	8	10	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	4	5	ug/L
95-95-4	2,4,5-Trichlorophenol	1	U	1	4	5	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	4	5	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	4	5	ug/L
88-74-4	2-Nitroaniline	1.4	U	1.4	4	5	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	4	5	ug/L
208-96-8	Acenaphthylene	1	U	1	4	5	ug/L
606-20-2	2,6-Dinitrotoluene	1.2	U	1.2	4	5	ug/L
99-09-2	3-Nitroaniline	1.4	U	1.4	4	5	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	4	5	ug/L
Total PAH	Total PAH	17.36	U	17.36	4	80	ug/L
51-28-5	2,4-Dinitrophenol	6.4	U	6.4	8	10	ug/L
100-02-7	4-Nitrophenol	2	U	2	8	10	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	4	5	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture	2.7	U	2.7	4	10	ug/L
121-14-2	2,4-Dinitrotoluene	1.5	U	1.5	4	5	ug/L
84-66-2	Diethylphthalate	1	U	1	4	5	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	4	5	ug/L
86-73-7	Fluorene	0.96	U	0.96	4	5	ug/L
100-01-6	4-Nitroaniline	2	U	2	4	5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.1	U	3.1	8	10	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	4	5	ug/L
103-33-3	Azobenzene	1.2	U	1.2	4	5	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	4	5	ug/L
118-74-1	Hexachlorobenzene	1.1	U	1.1	4	5	ug/L
1912-24-9	Atrazine	1.3	U	1.3	4	5	ug/L

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

Report of Analysis

Client:				Date Collected:	8/13/2024 12:00:00 AM
Project:				Date Received:	8/13/2024 12:00:00 AM
Client Sample ID:	PB162687BL			SDG No.:	BF082024
Lab Sample ID:	PB162687BL			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139087.D	1	8/13/2024 12:00:00 AM	8/20/2024 12:00:00 AM	PB162687

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	1.9	U	1.9	8	10	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	4	5	ug/L
120-12-7	Anthracene	1.1	U	1.1	4	5	ug/L
86-74-8	Carbazole	1.2	U	1.2	4	5	ug/L
84-74-2	Di-n-butylphthalate	1.5	U	1.5	4	5	ug/L
206-44-0	Fluoranthene	1.3	U	1.3	4	5	ug/L
92-87-5	Benzidine	4.1	U	4.1	8	10	ug/L
129-00-0	Pyrene	1.1	U	1.1	4	5	ug/L
85-68-7	Butylbenzylphthalate	2.1	U	2.1	4	5	ug/L
91-94-1	3,3-Dichlorobenzidine	1.3	U	1.3	8	10	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	4	5	ug/L
218-01-9	Chrysene	0.86	U	0.86	4	5	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.9	U	1.9	4	5	ug/L
117-84-0	Di-n-octyl phthalate	2.5	U	2.5	8	10	ug/L
205-99-2	Benzo(b)fluoranthene	1.1	U	1.1	4	5	ug/L
207-08-9	Benzo(k)fluoranthene	1.2	U	1.2	4	5	ug/L
50-32-8	Benzo(a)pyrene	1.7	U	1.7	4	5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1	U	1	4	5	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.2	U	1.2	4	5	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	1.2	4	5	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.1	U	1.1	4	5	ug/L
123-91-1	1,4-Dioxane	1.3	U	1.3	4	5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	4	5	ug/L
90-12-0	1-Methylnaphthalene	0.86	U	0.86	4	5	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	133.198		10-139		89	SPK: -150
13127-88-3	Phenol-d6	132.691		10-134		88	SPK: -150
4165-60-0	Nitrobenzene-d5	114.432		49-133		114	SPK: -100
321-60-8	2-Fluorobiphenyl	92.017		52-132		92	SPK: -100

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Report of Analysis

Client:				Date Collected:	8/13/2024 12:00:00 AM
Project:				Date Received:	8/13/2024 12:00:00 AM
Client Sample ID:	PB162687BL			SDG No.:	BF082024
Lab Sample ID:	PB162687BL			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139087.D	1	8/13/2024 12:00:00 AM	8/20/2024 12:00:00 AM	PB162687

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	150.506		44-137		100	SPK: -150
1718-51-0	Terphenyl-d14	86.912		48-125		87	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	90299	6.893				
1146-65-2	Naphthalene-d8	335821	8.175				
15067-26-2	Acenaphthene-d10	200816	9.928				
1517-22-2	Phenanthrene-d10	358000	11.416				
1719-03-5	Chrysene-d12	272888	14.051				
1520-96-3	Perylene-d12	248360	15.527				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	6.4	J			2.287	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	6.9	A			5.14	
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	3.3	J			17.186	

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Hit Summary Sheet
SW-846

SDG No.: BF082024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBF082024**							
SSTDICV040	ICVBF082024	Water	1,1-Biphenyl	39,900.000		910	5000	ug/L
SSTDICV040	ICVBF082024	Water	1,2,4,5-Tetrachlorobenzene	40,600.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	1,2,4-Trichlorobenzene	39,100.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	1,2-Dichlorobenzene	39,500.000		880	5000	ug/L
SSTDICV040	ICVBF082024	Water	1,3-Dichlorobenzene	38,900.000		800	5000	ug/L
SSTDICV040	ICVBF082024	Water	1,4-Dichlorobenzene	39,300.000		840	5000	ug/L
SSTDICV040	ICVBF082024	Water	1,4-Dioxane	39,600.000		1300	5000	ug/L
SSTDICV040	ICVBF082024	Water	1-Methylnaphthalene	39,100.000		860	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,2-oxybis(1-Chloropropane)	37,900.000		1400	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,3,4,6-Tetrachlorophenol	42,100.000		790	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,4,5-Trichlorophenol	39,400.000		1000	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,4,6-Trichlorophenol	41,300.000		890	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,4-Dichlorophenol	40,400.000		880	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,4-Dimethylphenol	39,400.000		1500	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,4-Dinitrophenol	48,100.000		6400	10000	ug/L
SSTDICV040	ICVBF082024	Water	2,4-Dinitrotoluene	44,200.000		1500	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,6-Dinitrotoluene	43,800.000		1200	5000	ug/L
SSTDICV040	ICVBF082024	Water	2-Chloronaphthalene	38,700.000		970	5000	ug/L
SSTDICV040	ICVBF082024	Water	2-Chlorophenol	39,300.000		710	5000	ug/L
SSTDICV040	ICVBF082024	Water	2-Methylnaphthalene	38,800.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	2-Methylphenol	39,500.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	2-Nitroaniline	43,600.000		1400	5000	ug/L
SSTDICV040	ICVBF082024	Water	2-Nitrophenol	44,300.000		2000	5000	ug/L
SSTDICV040	ICVBF082024	Water	3+4-Methylphenols	38,900.000		1200	10000	ug/L
SSTDICV040	ICVBF082024	Water	3,3-Dichlorobenzidine	36,800.000		1300	10000	ug/L
SSTDICV040	ICVBF082024	Water	3-Nitroaniline	43,200.000		1400	5000	ug/L
SSTDICV040	ICVBF082024	Water	4,6-Dinitro-2-methylphenol	46,800.000		3100	10000	ug/L
SSTDICV040	ICVBF082024	Water	4-Bromophenyl-phenylether	38,600.000		950	5000	ug/L
SSTDICV040	ICVBF082024	Water	4-Chloro-3-methylphenol	40,000.000		840	5000	ug/L
SSTDICV040	ICVBF082024	Water	4-Chloroaniline	39,700.000		1300	5000	ug/L
SSTDICV040	ICVBF082024	Water	4-Chlorophenyl-phenylether	38,600.000		980	5000	ug/L
SSTDICV040	ICVBF082024	Water	4-Nitroaniline	43,300.000		2000	5000	ug/L
SSTDICV040	ICVBF082024	Water	4-Nitrophenol	46,600.000		2000	10000	ug/L
SSTDICV040	ICVBF082024	Water	Acenaphthene	39,300.000		810	5000	ug/L
SSTDICV040	ICVBF082024	Water	Acenaphthylene	39,500.000		1000	5000	ug/L
SSTDICV040	ICVBF082024	Water	Acetophenone	39,100.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	Aniline	40,200.000		1600	5000	ug/L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: BF082024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF082024	Water	Anthracene	38,000.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	Atrazine	31,800.000		1300	5000	ug/L
SSTDICV040	ICVBF082024	Water	Azobenzene	39,000.000		1200	5000	ug/L
SSTDICV040	ICVBF082024	Water	Benzaldehyde	39,700.000		4000	10000	ug/L
SSTDICV040	ICVBF082024	Water	Benzidine	31,500.000		4100	10000	ug/L
SSTDICV040	ICVBF082024	Water	Benzo(a)anthracene	39,000.000		940	5000	ug/L
SSTDICV040	ICVBF082024	Water	Benzo(a)pyrene	38,700.000		1700	5000	ug/L
SSTDICV040	ICVBF082024	Water	Benzo(b)fluoranthene	36,200.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	Benzo(g,h,i)perylene	40,400.000		1200	5000	ug/L
SSTDICV040	ICVBF082024	Water	Benzo(k)fluoranthene	39,300.000		1200	5000	ug/L
SSTDICV040	ICVBF082024	Water	Benzoic acid	44,700.000		5500	10000	ug/L
SSTDICV040	ICVBF082024	Water	Benzyl Alcohol	39,300.000		1600	10000	ug/L
SSTDICV040	ICVBF082024	Water	bis(2-Chloroethoxy)methane	38,600.000		1000	5000	ug/L
SSTDICV040	ICVBF082024	Water	bis(2-Chloroethyl)ether	36,400.000		1200	5000	ug/L
SSTDICV040	ICVBF082024	Water	Bis(2-ethylhexyl)phthalate	42,600.000		1900	5000	ug/L
SSTDICV040	ICVBF082024	Water	Butylbenzylphthalate	43,900.000		2100	5000	ug/L
SSTDICV040	ICVBF082024	Water	Caprolactam	41,500.000		1700	10000	ug/L
SSTDICV040	ICVBF082024	Water	Carbazole	38,000.000		1200	5000	ug/L
SSTDICV040	ICVBF082024	Water	Chrysene	38,800.000		860	5000	ug/L
SSTDICV040	ICVBF082024	Water	Di-n-butylphthalate	37,700.000		1500	5000	ug/L
SSTDICV040	ICVBF082024	Water	Di-n-octyl phthalate	39,900.000		2500	10000	ug/L
SSTDICV040	ICVBF082024	Water	Dibenzo(a,h)anthracene	45,100.000		1200	5000	ug/L
SSTDICV040	ICVBF082024	Water	Dibenzofuran	39,500.000		930	5000	ug/L
SSTDICV040	ICVBF082024	Water	Diethylphthalate	39,800.000		1000	5000	ug/L
SSTDICV040	ICVBF082024	Water	Dimethylphthalate	39,600.000		930	5000	ug/L
SSTDICV040	ICVBF082024	Water	Fluoranthene	37,800.000		1300	5000	ug/L
SSTDICV040	ICVBF082024	Water	Fluorene	38,800.000		960	5000	ug/L
SSTDICV040	ICVBF082024	Water	Hexachlorobenzene	38,800.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	Hexachlorobutadiene	40,100.000		1300	5000	ug/L
SSTDICV040	ICVBF082024	Water	Hexachlorocyclopentadiene	40,400.000		5000	10000	ug/L
SSTDICV040	ICVBF082024	Water	Hexachloroethane	39,500.000		1000	5000	ug/L
SSTDICV040	ICVBF082024	Water	Indeno(1,2,3-cd)pyrene	45,100.000		1000	5000	ug/L
SSTDICV040	ICVBF082024	Water	Isophorone	39,800.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	n-Nitroso-di-n-propylamine	37,200.000		1500	2500	ug/L
SSTDICV040	ICVBF082024	Water	n-Nitrosodimethylamine	37,600.000		1000	10000	ug/L
SSTDICV040	ICVBF082024	Water	n-Nitrosodiphenylamine	38,000.000		890	5000	ug/L
SSTDICV040	ICVBF082024	Water	Naphthalene	39,500.000		1000	5000	ug/L
SSTDICV040	ICVBF082024	Water	Nitrobenzene	44,800.000		1300	5000	ug/L
SSTDICV040	ICVBF082024	Water	Pentachlorophenol	42,300.000		1900	10000	ug/L
SSTDICV040	ICVBF082024	Water	Phenanthrene	37,600.000		890	5000	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: BF082024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF082024	Water	Phenol	39,500.000		930	5000	ug/L
SSTDICV040	ICVBF082024	Water	Pyrene	41,700.000		1100	5000	ug/L
SSTDICV040	ICVBF082024	Water	Pyridine	39,600.000		1600	5000	ug/L
SSTDICV040	ICVBF082024	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	88,000.000		2700	10000	ug/L
SSTDICV040	ICVBF082024	Water	Total PAH	634,800.000		17360	80000	ug/L
			Total Svoc :	**3,927,300.00**				
			Total Concentration:	**3,927,300.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG No.: BF082024

Instrument ID: Calibration Date(s): 8/20/2024

Calibration Time(s): 17:10

LAB FILE ID: RRF2.5 = BF139078.D RRF005 = BF139079.D RRF010 = BF139080.D
RRF020 = BF139081.D RRF040 = BF139082.D RRF050 = BF139083.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		1.227	0.804	0.822	0.794	0.769	0.856	19.2
Pyridine		1.553	1.469	1.544	1.361	1.323	1.417	7.5
2-Fluorophenol		1.671	1.315	1.335	1.225	1.182	1.300	13.5
Benzaldehyde			1.182	1.163	0.921	0.843	0.985	17.8
Aniline		1.903	1.548	1.626	1.511	1.469	1.516	15.1
Phenol-d6		2.058	1.698	1.737	1.612	1.545	1.680	11.0
Phenol		2.131	1.793	1.839	1.709	1.607	1.748	11.5
bis(2-Chloroethyl)ether		1.913	1.323	1.374	1.261	1.209	1.406	16.9
2-Chlorophenol		1.529	1.254	1.309	1.194	1.161	1.250	11.0
1,2-Dichlorobenzene		1.512	1.459	1.483	1.341	1.277	1.374	8.0
1,3-Dichlorobenzene		1.853	1.533	1.576	1.434	1.373	1.503	11.7
1,4-Dichlorobenzene		1.803	1.560	1.572	1.440	1.381	1.503	10.5
Benzyl Alcohol		1.608	1.313	1.366	1.280	1.225	1.328	10.0
2-Methylphenol		1.249	1.086	1.114	1.029	0.999	1.070	8.5
2,2-oxybis(1-Chloropropane)		2.693	1.975	2.043	1.850	1.768	1.980	16.9
Acetophenone		0.542	0.529	0.538	0.504	0.488	0.511	4.9
3+4-Methylphenols		1.706	1.418	1.446	1.348	1.258	1.386	11.7
n-Nitroso-di-n-propylamine	1.348	1.435	1.039	1.089	1.005	0.955	1.103	16.7
Nitrobenzene-d5		0.274	0.288	0.336	0.360	0.365	0.343	13.6
Hexachloroethane		0.677	0.502	0.532	0.507	0.485	0.527	12.9
Nitrobenzene		0.328	0.335	0.382	0.395	0.395	0.382	9.7
Isophorone		0.768	0.748	0.752	0.717	0.693	0.730	3.7
2-Nitrophenol		0.064	0.075	0.100	0.118	0.126	0.110	28.5
2,4-Dimethylphenol		0.275	0.227	0.234	0.223	0.219	0.231	8.7
bis(2-Chloroethoxy)methane		0.489	0.438	0.440	0.410	0.393	0.426	7.8
2,4-Dichlorophenol		0.293	0.290	0.299	0.287	0.278	0.288	2.6
1,2,4-Trichlorobenzene		0.370	0.350	0.352	0.331	0.314	0.337	6.2
Benzoic acid			0.100	0.133	0.167	0.183	0.167	26.4
Naphthalene		1.090	1.062	1.071	0.997	0.945	1.014	6.1
4-Chloroaniline		0.357	0.355	0.363	0.347	0.330	0.347	3.5
Hexachlorobutadiene		0.234	0.233	0.231	0.216	0.206	0.220	5.5
Caprolactam		0.090	0.091	0.092	0.092	0.089	0.091	1.8
4-Chloro-3-methylphenol		0.333	0.314	0.329	0.319	0.304	0.319	3.1
2-Methylnaphthalene		0.758	0.678	0.678	0.629	0.598	0.650	9.1
Hexachlorocyclopentadiene		0.202	0.192	0.218	0.214	0.211	0.210	4.9
2,4,6-Trichlorophenol		0.408	0.364	0.378	0.356	0.360	0.370	5.2

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG No.: BF082024

Instrument ID: Calibration Date(s): 8/20/2024

Calibration Time(s): 17:10

LAB FILE ID: RRF2.5 = BF139078.D RRF005 = BF139079.D RRF010 = BF139080.D
RRF020 = BF139081.D RRF040 = BF139082.D RRF050 = BF139083.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.526	1.341	1.326	1.207	1.147	1.261	11.6
2,4,5-Trichlorophenol		0.401	0.359	0.384	0.386	0.363	0.379	3.7
1,1-Biphenyl		1.333	1.479	1.479	1.374	1.301	1.370	5.8
2-Chloronaphthalene		1.208	1.165	1.171	1.087	1.047	1.113	6.0
2-Nitroaniline		0.160	0.170	0.235	0.285	0.304	0.262	28.8
Dimethylphthalate		1.239	1.281	1.295	1.236	1.181	1.235	3.5
Acenaphthylene		1.656	1.666	1.690	1.587	1.523	1.595	4.8
2,6-Dinitrotoluene		0.093	0.147	0.202	0.236	0.243	0.206	30.8
3-Nitroaniline		0.123	0.151	0.211	0.241	0.243	0.213	25.9
Acenaphthene		1.181	1.076	1.072	1.027	0.985	1.053	6.2
2,4-Dinitrophenol			0.036	0.049	0.072	0.080	0.074	37.0
4-Nitrophenol			0.131	0.169	0.195	0.199	0.187	17.1
Dibenzofuran		1.611	1.620	1.623	1.518	1.441	1.530	5.8
2,4-Dinitrotoluene		0.109	0.165	0.229	0.289	0.297	0.250	34.3
Diethylphthalate		1.275	1.237	1.267	1.222	1.175	1.223	3.3
4-Chlorophenyl-phenylether		0.703	0.642	0.636	0.589	0.573	0.611	8.5
Fluorene		1.395	1.280	1.273	1.195	1.142	1.223	8.1
4-Nitroaniline		0.139	0.164	0.213	0.244	0.248	0.219	22.7
4,6-Dinitro-2-methylphenol			0.031	0.046	0.064	0.071	0.064	33.8
n-Nitrosodiphenylamine		0.707	0.606	0.613	0.571	0.544	0.592	9.8
Azobenzene		1.521	1.378	1.395	1.334	1.296	1.360	6.1
2,4,6-Tribromophenol		0.132	0.174	0.191	0.190	0.187	0.181	12.6
4-Bromophenyl-phenylether		0.228	0.217	0.226	0.207	0.199	0.212	5.5
Hexachlorobenzene		0.255	0.229	0.231	0.220	0.215	0.227	5.9
Atrazine		0.241	0.198	0.197	0.147	0.164	0.181	18.4
Pentachlorophenol		0.135	0.131	0.147	0.149	0.148	0.145	6.2
Phenanthrene		1.228	1.053	1.066	0.968	0.938	1.017	10.8
Anthracene		1.172	1.037	1.035	0.953	0.924	0.994	9.5
Carbazole		1.112	0.959	0.976	0.892	0.865	0.928	10.5
Di-n-butylphthalate		1.373	1.077	1.098	1.019	0.987	1.076	12.9
Fluoranthene		1.275	1.159	1.152	1.050	1.001	1.085	10.6
Benzidine		0.410	0.361	0.368	0.505	0.439	0.413	12.0
Pyrene		1.566	1.495	1.606	1.688	1.704	1.669	7.3
Terphenyl-d14		1.099	1.121	1.144	1.212	1.243	1.205	7.2
Butylbenzylphthalate		0.492	0.497	0.564	0.610	0.604	0.577	10.7
3,3-Dichlorobenzidine		0.429	0.419	0.407	0.349	0.329	0.367	13.4

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG No.: BF082024

Instrument ID: Calibration Date(s): 8/20/2024

Calibration Time(s): 17:10

LAB FILE ID: RRF2.5 = BF139078.D RRF005 = BF139079.D RRF010 = BF139080.D
RRF020 = BF139081.D RRF040 = BF139082.D RRF050 = BF139083.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.478	1.343	1.346	1.301	1.232	1.315	6.6
Chrysene		1.229	1.245	1.288	1.153	1.111	1.192	5.3
Bis(2-ethylhexyl)phthalate		0.749	0.719	0.757	0.779	0.764	0.765	3.6
Di-n-octyl phthalate		1.238	1.050	1.094	1.030	0.998	1.074	7.2
Benzo(b)fluoranthene		1.474	1.391	1.390	1.257	1.153	1.304	9.3
Benzo(k)fluoranthene		1.051	1.220	1.288	1.076	1.019	1.086	11.4
Benzo(a)pyrene		1.052	1.068	1.087	1.014	0.981	1.030	3.9
Indeno(1,2,3-cd)pyrene		0.909	0.873	1.124	1.298	1.308	1.171	17.6
Dibenzo(a,h)anthracene		0.745	0.724	0.922	1.078	1.071	0.961	17.3
Benzo(g,h,i)perylene		0.641	0.713	0.968	1.106	1.102	0.969	21.5
1,2,4,5-Tetrachlorobenzene		0.904	0.595	0.595	0.560	0.531	0.609	21.8
1,4-Dioxane		0.591	0.579	0.579	0.553	0.528	0.558	4.7
2,3,4,6-Tetrachlorophenol		0.259	0.297	0.325	0.313	0.306	0.305	7.3
1-Methylnaphthalene		0.677	0.662	0.666	0.613	0.585	0.627	6.4

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG NO.: BF082024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 20 2024 12:00AM

Lab File ID: BF139082.D Time Analyzed: 21:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	116386	6.899	419218	8.18	240364	9.93
	UPPER LIMIT	232772	7.399	838436	8.681	480728	10.434
	LOWER LIMIT	58193	6.399	209609	7.681	120182	9.434
	EPA SAMPLE NO.						
01	ICVBF082024	131503	6.90	482835	8.18	279151	9.93
02	PB162687BL	90299	6.89	335821	8.18	200816	9.93

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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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG NO.: BF082024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 20 2024 12:00AM

Lab File ID: BF139082.D Time Analyzed: 21:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	116386	6.899	419218	8.18	240364	9.93
	UPPER LIMIT	232772	7.399	838436	8.681	480728	10.434
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	EPA SAMPLE NO.						
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
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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.: BF082024 SAS No.: BF082024 SDG NO.: BF082024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 20 2024 12:00AM

Lab File ID: BF139082.D Time Analyzed: 21:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	434981	11.422	276906	14.057	215524	15.533
	UPPER LIMIT	869962	11.922	553812	14.557	431048	16.033
	LOWER LIMIT	217490.5	10.922	138453	13.557	107762	15.033
	EPA SAMPLE NO.						
01	ICVBF082024	504492	11.42	299101	14.06	259634	15.53
02	PB162687BL	358000	11.42	272888	14.05	248360	15.53

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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG NO.: BF082024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 20 2024 12:00AM

Lab File ID: BF139082.D Time Analyzed: 21:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	434981	11.422	276906	14.057	215524	15.533
	UPPER LIMIT	869962	11.922	553812	14.557	431048	16.033
	LOWER LIMIT	217490.5	10.922	138453	13.557	107762	15.033
	EPA SAMPLE NO.						
01	ICVBF082024	504492	11.42	299101	14.06	259634	15.53
02	PB162687BL	358000	11.42	272888	14.05	248360	15.53

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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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBF082024

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG NO.: BF082024

Lab File ID: BF139086.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_F Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 08/20/2024

Level: (low/med) LOW Time Analyzed: 21:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBF082024	SSTDICV040	BF139086.D	08/20/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162687BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF082024 SAS No.: BF082024 SDG NO.: BF082024

Lab File ID: BF139087.D Lab Sample ID: PB162687BL

Instrument ID: BNA_F Date Extracted: 08/13/2024

Matrix: (soil/water) Water Date Analyzed: 08/20/2024

Level: (low/med) LOW Time Analyzed: 22:10

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: BF082024

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBF082024	BF139086.D	2-Fluorophenol	150	77,377.00	51585	*	10	139
			Phenol-d6	150	78,276.00	52184	*	10	134
			Nitrobenzene-d5	100	93,532.00	93532	*	49	133
			2-Fluorobiphenyl	100	76,128.00	76128	*	52	132
			2,4,6-Tribromophenol	150	87,807.00	58538	*	44	137
			Terphenyl-d14	100	84,453.00	84453	*	48	125

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Surrogate Summary

SW-846

SDG No.: BF082024

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB162687BL	PB162687BL	BF139087.D	2-Fluorophenol	150	133.20	89		10	139
			Phenol-d6	150	132.69	88		10	134
			Nitrobenzene-d5	100	114.43	114		49	133
			2-Fluorobiphenyl	100	92.02	92		52	132
			2,4,6-Tribromophenol	150	150.51	100		44	137
			Terphenyl-d14	100	86.91	87		48	125

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BF082024

Lab Code: CHEM SAS No.: BF082024 SDG NO.: BF082024

Lab File ID: BF139077.D DFTPP Injection Date: 08/20/2024

Instrument ID: BNA_F DFTPP Injection Time: 16:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.1
68	Less than 2.0% of mass 69	0.8 (2) 1
69	Mass 69 relative abundance	39.5
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	44.4
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	6.6
275	10.0 - 60.0% of mass 198	28.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	16.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20.2 (20.2) 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
SSTDICC2.5	SSTDICC2.5	BF139078.D	08/20/2024	17:10
SSTDICC005	SSTDICC005	BF139079.D	08/20/2024	17:40
SSTDICC010	SSTDICC010	BF139080.D	08/20/2024	18:10
SSTDICC020	SSTDICC020	BF139081.D	08/20/2024	18:40
SSTDICCC040	SSTDICCC040	BF139082.D	08/20/2024	19:10
SSTDICC050	SSTDICC050	BF139083.D	08/20/2024	19:41
SSTDICC060	SSTDICC060	BF139084.D	08/20/2024	20:11
SSTDICC080	SSTDICC080	BF139085.D	08/20/2024	20:41
ICVBF082024	SSTDICV040	BF139086.D	08/20/2024	21:41
PB162687BL	PB162687BL	BF139087.D	08/20/2024	22:10