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

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM102324 SAS No.: BM102324 SDG No.: BM102324

Instrument ID: BNA_M Calibration Date/Time: 10/23/2024 15:04

Lab File ID: BM048204.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.549	0.572		4.189	
Pyridine	1.294	1.329		2.705	
2-Fluorophenol	1.190	1.216		2.185	
Benzaldehyde	0.761	0.760		-0.131	
Aniline	1.286	1.385		7.698	
Phenol-d6	1.550	1.594		2.839	
Phenol	1.559	1.600		2.63	20.0
bis(2-Chloroethyl)ether	1.242	1.281		3.14	
2-Chlorophenol	1.293	1.323		2.32	
1,2-Dichlorobenzene	1.463	1.483		1.367	
1,3-Dichlorobenzene	1.490	1.512		1.477	
1,4-Dichlorobenzene	1.514	1.517		0.198	20.0
Benzyl Alcohol	0.989	1.045		5.662	
2-Methylphenol	1.036	1.067		2.992	
2,2-oxybis(1-Chloropropane)	1.816	1.837		1.156	
Acetophenone	0.488	0.502		2.869	
3+4-Methylphenols	1.435	1.515		5.575	
n-Nitroso-di-n-propylamine	0.980	1.010	0.050	3.061	
Nitrobenzene-d5	0.354	0.369		4.237	
Hexachloroethane	0.555	0.565		1.802	
Nitrobenzene	0.367	0.379		3.27	
Isophorone	0.649	0.672		3.544	
2-Nitrophenol	0.169	0.180		6.509	20.0
2,4-Dimethylphenol	0.206	0.215		4.369	
bis(2-Chloroethoxy)methane	0.411	0.428		4.136	
2,4-Dichlorophenol	0.296	0.311		5.068	20.0
1,2,4-Trichlorobenzene	0.339	0.344		1.475	
Benzoic acid	0.229	0.248		8.297	
Naphthalene	1.043	1.062		1.822	
4-Chloroaniline	0.338	0.376		11.243	
Hexachlorobutadiene	0.210	0.214		1.905	20.0
Caprolactam	0.096	0.104		8.333	
4-Chloro-3-methylphenol	0.309	0.324		4.854	20.0
2-Methylnaphthalene	0.697	0.716		2.726	
Hexachlorocyclopentadiene	0.193	0.202	0.050	4.663	
2,4,6-Trichlorophenol	0.379	0.394		3.958	20.0
2-Fluorobiphenyl	1.303	1.333		2.302	
2,4,5-Trichlorophenol	0.423	0.441		4.255	
1,1-Biphenyl	1.428	1.454		1.821	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM102324 SAS No.: BM102324 SDG No.: BM102324

Instrument ID: BNA_M Calibration Date/Time: 10/23/2024 1 15:04

Lab File ID: BM048204.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.126	1.149		2.043	
2-Nitroaniline	0.305	0.329		7.869	
Dimethylphthalate	1.365	1.396		2.271	
Acenaphthylene	1.643	1.693		3.043	
2,6-Dinitrotoluene	0.305	0.321		5.246	
3-Nitroaniline	0.287	0.321		11.847	
Acenaphthene	1.044	1.064		1.916	20.0
2,4-Dinitrophenol	0.178	0.188	0.050	5.618	
4-Nitrophenol	0.256	0.277	0.050	8.203	
Dibenzofuran	1.658	1.702		2.654	
2,4-Dinitrotoluene	0.402	0.437		8.706	
Diethylphthalate	1.382	1.424		3.039	
4-Chlorophenyl-phenylether	0.656	0.671		2.287	
Fluorene	1.311	1.351		3.051	
4-Nitroaniline	0.297	0.339		14.141	
4,6-Dinitro-2-methylphenol	0.116	0.129		11.207	
n-Nitrosodiphenylamine	0.549	0.570		3.825	20.0
Azobenzene	1.239	1.314		6.053	
2,4,6-Tribromophenol	0.245	0.259		5.714	
4-Bromophenyl-phenylether	0.203	0.208		2.463	
Hexachlorobenzene	0.244	0.251		2.869	
Atrazine	0.154	0.186		20.779	
Pentachlorophenol	0.160	0.172		7.5	20.0
Phenanthrene	0.990	1.017		2.727	
Anthracene	0.959	0.998		4.067	
Carbazole	0.940	0.994		5.745	
Di-n-butylphthalate	1.170	1.241		6.068	
Fluoranthene	1.181	1.223		3.556	20.0
Benzidine	0.231	0.344		48.918	
Pyrene	1.339	1.358		1.419	
Terphenyl-d14	0.980	1.009		2.959	
Butylbenzylphthalate	0.560	0.589		5.179	
3,3-Dichlorobenzidine	0.438	0.473		7.991	
Benzo(a)anthracene	1.278	1.297		1.487	
Chrysene	1.227	1.244		1.385	
Bis(2-ethylhexyl)phthalate	0.814	0.861		5.774	
Di-n-octyl phthalate	1.409	1.491		5.82	20.0
Benzo(b)fluoranthene	1.147	1.182		3.051	
Benzo(k)fluoranthene	1.109	1.147		3.427	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM102324 SAS No.: BM102324 SDG No.: BM102324

Instrument ID: BNA_M Calibration Date/Time: 10/23/2024 1 15:04

Lab File ID: BM048204.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	0.997	1.034		3.711	20.0
Indeno(1,2,3-cd)pyrene	1.323	1.373		3.779	
Dibenzo(a,h)anthracene	1.101	1.147		4.178	
Benzo(g,h,i)perylene	1.128	1.156		2.482	
1,2,4,5-Tetrachlorobenzene	0.572	0.578		1.049	
1,4-Dioxane	0.487	0.502		3.08	20.0
2,3,4,6-Tetrachlorophenol	0.351	0.370		5.413	
1-Methylnaphthalene	0.691	0.712		3.039	

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:	ICVBM102324		SDG No.:	BM102324	
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
BM048208.D	1		10/23/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	40300		1000	8000	10000	ug/L
110-86-1	Pyridine	41000		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	41600		4000	8000	10000	ug/L
62-53-3	Aniline	43500		1600	4000	5000	ug/L
108-95-2	Phenol	41500		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	40900		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	41100		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	40200		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	40300		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	40700		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	42200		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	42100		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39800		1400	4000	5000	ug/L
98-86-2	Acetophenone	41100		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	42500		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41300		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	39600		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	41200		1300	4000	5000	ug/L
78-59-1	Isophorone	41900		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	43000		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	42300		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41400		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	42400		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	40400		1100	4000	5000	ug/L
65-85-0	Benzoic acid	45000		5500	8000	10000	ug/L
91-20-3	Naphthalene	40800		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	44500		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	40200		1300	4000	5000	ug/L

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBM102324		SDG No.:	BM102324	
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
BM048208.D	1		10/23/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	44700		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	43000		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	41000		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	39600		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	41500		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	42300		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	40500		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	40200		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	43900		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	41400		930	4000	5000	ug/L
208-96-8	Acenaphthylene	41500		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	43300		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	46900		1400	4000	5000	ug/L
83-32-9	Acenaphthene	40700		810	4000	5000	ug/L
Total PAH	Total PAH	655700		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	43400		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	45200		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	40900		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	44500		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	87800		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	42200		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	41100		980	4000	5000	ug/L
86-73-7	Fluorene	41200		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	47600		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	43700		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	40100		890	4000	5000	ug/L
103-33-3	Azobenzene	42000		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	40200		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	40200		1100	4000	5000	ug/L
1912-24-9	Atrazine	49100		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM102324			SDG No.:	BM102324
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
BM048208.D	1		10/23/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	43400		1900	8000	10000	ug/L
85-01-8	Phenanthrene	40600		890	4000	5000	ug/L
120-12-7	Anthracene	41300		1100	4000	5000	ug/L
86-74-8	Carbazole	42200		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	42400		1500	4000	5000	ug/L
206-44-0	Fluoranthene	41200		1300	4000	5000	ug/L
92-87-5	Benzidine	40600		4100	8000	10000	ug/L
129-00-0	Pyrene	40700		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	43000		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	42000		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	40800		940	4000	5000	ug/L
218-01-9	Chrysene	40700		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	43200		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	43600		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	41000		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	40400		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	41300		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41300		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	41200		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	41000		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39900		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	39900		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42700		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	41200		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	82401	*	10-139		54934	SPK: -150
13127-88-3	Phenol-d6	82954	*	10-134		55303	SPK: -150
4165-60-0	Nitrobenzene-d5	82156	*	49-133		82156	SPK: -100
321-60-8	2-Fluorobiphenyl	80513	*	52-132		80513	SPK: -100

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Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM102324			SDG No.:	BM102324		
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
BM048208.D	1		10/23/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	86036	*	44-137		57357	SPK: -150
1718-51-0	Terphenyl-d14	81390	*	48-125		81390	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	173529	7.722				
1146-65-2	Naphthalene-d8	708890	10.516				
15067-26-2	Acenaphthene-d10	458798	14.369				
1517-22-2	Phenanthrene-d10	952437	17.11				
1719-03-5	Chrysene-d12	906115	21.339				
1520-96-3	Perylene-d12	1077278	24.291				

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Report of Analysis

Client:				Date Collected:	10/21/2024 12:00:00 AM
Project:				Date Received:	10/21/2024 12:00:00 AM
Client Sample ID:	PB164286BL			SDG No.:	BM102324
Lab Sample ID:	PB164286BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g	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
BM048209.D	1	10/21/2024 12:00:00 AM	10/23/2024 12:00:00 AM	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	86.7	U	86.7	270	330	ug/Kg
110-86-1	Pyridine	79.8	U	79.8	130	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	270	330	ug/Kg
62-53-3	Aniline	96.8	U	96.8	130	170	ug/Kg
108-95-2	Phenol	82.8	U	82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.5	U	84.5	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	85.9	U	85.9	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.4	U	86.4	130	170	ug/Kg
100-51-6	Benzyl Alcohol	82.9	U	82.9	270	330	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	130	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	130	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.3	U	85.3	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	270	330	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	130	170	ug/Kg

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Report of Analysis

Client:				Date Collected:	10/21/2024 12:00:00 AM
Project:				Date Received:	10/21/2024 12:00:00 AM
Client Sample ID:	PB164286BL			SDG No.:	BM102324
Lab Sample ID:	PB164286BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g	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
BM048209.D	1	10/21/2024 12:00:00 AM	10/23/2024 12:00:00 AM	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	86.7	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.3	U	71.3	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.9	U	73.9	130	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	130	170	ug/Kg
208-96-8	Acenaphthylene	86.4	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	81	U	81	130	170	ug/Kg
Total PAH	Total PAH	1323.5	U	1323.5	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture	169.2	U	169.2	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	80	U	80	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	130	170	ug/Kg
103-33-3	Azobenzene	79.5	U	79.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	130	170	ug/Kg

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Report of Analysis

Client:				Date Collected:	10/21/2024 12:00:00 AM
Project:				Date Received:	10/21/2024 12:00:00 AM
Client Sample ID:	PB164286BL			SDG No.:	BM102324
Lab Sample ID:	PB164286BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g	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
BM048209.D	1	10/21/2024 12:00:00 AM	10/23/2024 12:00:00 AM	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	77.2	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	130	170	ug/Kg
92-87-5	Benzidine	160	U	160	270	330	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81	U	81	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78	U	78	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80	U	80	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.6	U	74.6	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.1	U	83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	159.117		18-112	106		SPK: -150
13127-88-3	Phenol-d6	144.024		15-107	96		SPK: -150
4165-60-0	Nitrobenzene-d5	101.344		18-107	101		SPK: -100
321-60-8	2-Fluorobiphenyl	102.34		20-109	102		SPK: -100

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Report of Analysis

Client:				Date Collected:	10/21/2024 12:00:00 AM
Project:				Date Received:	10/21/2024 12:00:00 AM
Client Sample ID:	PB164286BL			SDG No.:	BM102324
Lab Sample ID:	PB164286BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g	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
BM048209.D	1	10/21/2024 12:00:00 AM	10/23/2024 12:00:00 AM	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	142.342		10-116		95	SPK: -150
1718-51-0	Terphenyl-d14	110.208	*	10-105		110	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	158631	7.722				
1146-65-2	Naphthalene-d8	584492	10.516				
15067-26-2	Acenaphthene-d10	345617	14.369				
1517-22-2	Phenanthrene-d10	674329	17.11				
1719-03-5	Chrysene-d12	563717	21.333				
1520-96-3	Perylene-d12	638791	24.286				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	A			4.846	
000103-23-1	Hexanedioic acid, bis(2-ethylhexyl	180	J			20.498	

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Hit Summary Sheet
SW-846

SDG No.: BM102324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBM102324**							
SSTDICV040	ICVBM102324	Water	1,1-Biphenyl	40,500.000		910	5000	ug/L
SSTDICV040	ICVBM102324	Water	1,2,4,5-Tetrachlorobenzene	39,900.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	1,2,4-Trichlorobenzene	40,400.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	1,2-Dichlorobenzene	40,200.000		880	5000	ug/L
SSTDICV040	ICVBM102324	Water	1,3-Dichlorobenzene	40,300.000		800	5000	ug/L
SSTDICV040	ICVBM102324	Water	1,4-Dichlorobenzene	40,700.000		840	5000	ug/L
SSTDICV040	ICVBM102324	Water	1,4-Dioxane	39,900.000		1300	5000	ug/L
SSTDICV040	ICVBM102324	Water	1-Methylnaphthalene	41,200.000		860	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,2-oxybis(1-Chloropropane)	39,800.000		1400	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,3,4,6-Tetrachlorophenol	42,700.000		790	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,4,5-Trichlorophenol	42,300.000		1000	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,4,6-Trichlorophenol	41,500.000		890	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,4-Dichlorophenol	42,400.000		880	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,4-Dimethylphenol	42,300.000		1500	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,4-Dinitrophenol	43,400.000		6400	10000	ug/L
SSTDICV040	ICVBM102324	Water	2,4-Dinitrotoluene	44,500.000		1500	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,6-Dinitrotoluene	43,300.000		1200	5000	ug/L
SSTDICV040	ICVBM102324	Water	2-Chloronaphthalene	40,200.000		970	5000	ug/L
SSTDICV040	ICVBM102324	Water	2-Chlorophenol	41,100.000		710	5000	ug/L
SSTDICV040	ICVBM102324	Water	2-Methylnaphthalene	41,000.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	2-Methylphenol	42,100.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	2-Nitroaniline	43,900.000		1400	5000	ug/L
SSTDICV040	ICVBM102324	Water	2-Nitrophenol	43,000.000		2000	5000	ug/L
SSTDICV040	ICVBM102324	Water	3+4-Methylphenols	42,500.000		1200	10000	ug/L
SSTDICV040	ICVBM102324	Water	3,3-Dichlorobenzidine	42,000.000		1300	10000	ug/L
SSTDICV040	ICVBM102324	Water	3-Nitroaniline	46,900.000		1400	5000	ug/L
SSTDICV040	ICVBM102324	Water	4,6-Dinitro-2-methylphenol	43,700.000		3100	10000	ug/L
SSTDICV040	ICVBM102324	Water	4-Bromophenyl-phenylether	40,200.000		950	5000	ug/L
SSTDICV040	ICVBM102324	Water	4-Chloro-3-methylphenol	43,000.000		840	5000	ug/L
SSTDICV040	ICVBM102324	Water	4-Chloroaniline	44,500.000		1300	5000	ug/L
SSTDICV040	ICVBM102324	Water	4-Chlorophenyl-phenylether	41,100.000		980	5000	ug/L
SSTDICV040	ICVBM102324	Water	4-Nitroaniline	47,600.000		2000	5000	ug/L
SSTDICV040	ICVBM102324	Water	4-Nitrophenol	45,200.000		2000	10000	ug/L
SSTDICV040	ICVBM102324	Water	Acenaphthene	40,700.000		810	5000	ug/L
SSTDICV040	ICVBM102324	Water	Acenaphthylene	41,500.000		1000	5000	ug/L
SSTDICV040	ICVBM102324	Water	Acetophenone	41,100.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	Aniline	43,500.000		1600	5000	ug/L

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BM102324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM102324	Water	Anthracene	41,300.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	Atrazine	49,100.000		1300	5000	ug/L
SSTDICV040	ICVBM102324	Water	Azobenzene	42,000.000		1200	5000	ug/L
SSTDICV040	ICVBM102324	Water	Benzaldehyde	41,600.000		4000	10000	ug/L
SSTDICV040	ICVBM102324	Water	Benzidine	40,600.000		4100	10000	ug/L
SSTDICV040	ICVBM102324	Water	Benzo(a)anthracene	40,800.000		940	5000	ug/L
SSTDICV040	ICVBM102324	Water	Benzo(a)pyrene	41,300.000		1700	5000	ug/L
SSTDICV040	ICVBM102324	Water	Benzo(b)fluoranthene	41,000.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	Benzo(g,h,i)perylene	41,000.000		1200	5000	ug/L
SSTDICV040	ICVBM102324	Water	Benzo(k)fluoranthene	40,400.000		1200	5000	ug/L
SSTDICV040	ICVBM102324	Water	Benzoic acid	45,000.000		5500	10000	ug/L
SSTDICV040	ICVBM102324	Water	Benzyl Alcohol	42,200.000		1600	10000	ug/L
SSTDICV040	ICVBM102324	Water	bis(2-Chloroethoxy)methane	41,400.000		1000	5000	ug/L
SSTDICV040	ICVBM102324	Water	bis(2-Chloroethyl)ether	40,900.000		1200	5000	ug/L
SSTDICV040	ICVBM102324	Water	Bis(2-ethylhexyl)phthalate	43,200.000		1900	5000	ug/L
SSTDICV040	ICVBM102324	Water	Butylbenzylphthalate	43,000.000		2100	5000	ug/L
SSTDICV040	ICVBM102324	Water	Caprolactam	44,700.000		1700	10000	ug/L
SSTDICV040	ICVBM102324	Water	Carbazole	42,200.000		1200	5000	ug/L
SSTDICV040	ICVBM102324	Water	Chrysene	40,700.000		860	5000	ug/L
SSTDICV040	ICVBM102324	Water	Di-n-butylphthalate	42,400.000		1500	5000	ug/L
SSTDICV040	ICVBM102324	Water	Di-n-octyl phthalate	43,600.000		2500	10000	ug/L
SSTDICV040	ICVBM102324	Water	Dibenzo(a,h)anthracene	41,200.000		1200	5000	ug/L
SSTDICV040	ICVBM102324	Water	Dibenzofuran	40,900.000		930	5000	ug/L
SSTDICV040	ICVBM102324	Water	Diethylphthalate	42,200.000		1000	5000	ug/L
SSTDICV040	ICVBM102324	Water	Dimethylphthalate	41,400.000		930	5000	ug/L
SSTDICV040	ICVBM102324	Water	Fluoranthene	41,200.000		1300	5000	ug/L
SSTDICV040	ICVBM102324	Water	Fluorene	41,200.000		960	5000	ug/L
SSTDICV040	ICVBM102324	Water	Hexachlorobenzene	40,200.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	Hexachlorobutadiene	40,200.000		1300	5000	ug/L
SSTDICV040	ICVBM102324	Water	Hexachlorocyclopentadiene	39,600.000		5000	10000	ug/L
SSTDICV040	ICVBM102324	Water	Hexachloroethane	39,600.000		1000	5000	ug/L
SSTDICV040	ICVBM102324	Water	Indeno(1,2,3-cd)pyrene	41,300.000		1000	5000	ug/L
SSTDICV040	ICVBM102324	Water	Isophorone	41,900.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	n-Nitroso-di-n-propylamine	41,300.000		1500	2500	ug/L
SSTDICV040	ICVBM102324	Water	n-Nitrosodimethylamine	40,300.000		1000	10000	ug/L
SSTDICV040	ICVBM102324	Water	n-Nitrosodiphenylamine	40,100.000		890	5000	ug/L
SSTDICV040	ICVBM102324	Water	Naphthalene	40,800.000		1000	5000	ug/L
SSTDICV040	ICVBM102324	Water	Nitrobenzene	41,200.000		1300	5000	ug/L
SSTDICV040	ICVBM102324	Water	Pentachlorophenol	43,400.000		1900	10000	ug/L
SSTDICV040	ICVBM102324	Water	Phenanthrene	40,600.000		890	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.: BM102324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM102324	Water	Phenol	41,500.000		930	5000	ug/L
SSTDICV040	ICVBM102324	Water	Pyrene	40,700.000		1100	5000	ug/L
SSTDICV040	ICVBM102324	Water	Pyridine	41,000.000		1600	5000	ug/L
SSTDICV040	ICVBM102324	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	87,800.000		2700	10000	ug/L
SSTDICV040	ICVBM102324	Water	Total PAH	655,700.000		17360	80000	ug/L
			Total Svoc :	**4,093,800.00**				
			Total Concentration:	**4,093,800.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM102324 SAS No.: BM102324 SDG No.: BM102324

Instrument ID: Calibration Date(s): 10/23/2024

Calibration Time(s): 12:26

LAB FILE ID: RRF2.5 = BM048200.D RRF005 = BM048201.D RRF010 = BM048202.D
RRF020 = BM048203.D RRF040 = BM048204.D RRF050 = BM048205.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.571	0.549	0.566	0.572	0.535	0.549	3.9
Pyridine		1.311	1.326	1.338	1.329	1.248	1.294	3.3
2-Fluorophenol		1.238	1.182	1.198	1.216	1.162	1.190	2.6
Benzaldehyde		0.865	0.868	0.830	0.760	0.643	0.761	15.1
Aniline		1.385	1.370	1.370	1.385	1.235	1.286	9.8
Phenol-d6		1.555	1.545	1.578	1.594	1.523	1.550	2.2
Phenol		1.544	1.538	1.584	1.600	1.543	1.559	1.9
bis(2-Chloroethyl)ether		1.238	1.275	1.240	1.281	1.221	1.242	2.3
2-Chlorophenol		1.337	1.282	1.302	1.323	1.264	1.293	2.4
1,2-Dichlorobenzene		1.573	1.528	1.497	1.483	1.400	1.463	5.4
1,3-Dichlorobenzene		1.600	1.532	1.516	1.512	1.428	1.490	4.7
1,4-Dichlorobenzene		1.638	1.571	1.534	1.517	1.454	1.514	5.0
Benzyl Alcohol		0.902	0.943	1.011	1.045	1.010	0.989	5.1
2-Methylphenol		0.992	1.032	1.076	1.067	1.030	1.036	3.0
2,2-oxybis(1-Chloropropane)		1.972	1.875	1.875	1.837	1.751	1.816	5.8
Acetophenone		0.493	0.488	0.505	0.502	0.480	0.488	3.0
3+4-Methylphenols		1.412	1.374	1.453	1.515	1.439	1.435	3.3
n-Nitroso-di-n-propylamine	1.020	1.036	0.993	1.014	1.010	0.945	0.980	5.4
Nitrobenzene-d5		0.347	0.348	0.362	0.369	0.353	0.354	2.6
Hexachloroethane		0.602	0.565	0.556	0.565	0.532	0.555	4.7
Nitrobenzene		0.367	0.363	0.375	0.379	0.365	0.367	2.4
Isophorone		0.652	0.638	0.664	0.672	0.642	0.649	2.6
2-Nitrophenol		0.145	0.151	0.169	0.180	0.178	0.169	9.1
2,4-Dimethylphenol		0.192	0.195	0.210	0.215	0.207	0.206	4.3
bis(2-Chloroethoxy)methane		0.398	0.403	0.422	0.428	0.407	0.411	2.8
2,4-Dichlorophenol		0.270	0.279	0.300	0.311	0.301	0.296	5.2
1,2,4-Trichlorobenzene		0.350	0.335	0.345	0.344	0.332	0.339	2.5
Benzoic acid		0.189	0.191	0.212	0.248	0.244	0.229	13.4
Naphthalene		1.097	1.048	1.065	1.062	1.012	1.043	3.5
4-Chloroaniline		0.320	0.330	0.367	0.376	0.342	0.338	7.8
Hexachlorobutadiene		0.219	0.212	0.215	0.214	0.203	0.210	3.3
Caprolactam		0.087	0.089	0.097	0.104	0.097	0.096	6.3
4-Chloro-3-methylphenol		0.291	0.296	0.318	0.324	0.309	0.309	3.9
2-Methylnaphthalene		0.726	0.694	0.719	0.716	0.678	0.697	3.6
Hexachlorocyclopentadiene		0.179	0.187	0.195	0.202	0.200	0.193	4.4
2,4,6-Trichlorophenol		0.357	0.369	0.382	0.394	0.381	0.379	3.4

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.: BM102324 SAS No.: BM102324 SDG No.: BM102324

Instrument ID: Calibration Date(s): 10/23/2024

Calibration Time(s): 12:26

LAB FILE ID: RRF2.5 = BM048200.D RRF005 = BM048201.D RRF010 = BM048202.D
RRF020 = BM048203.D RRF040 = BM048204.D RRF050 = BM048205.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.391	1.358	1.338	1.333	1.258	1.303	5.5
2,4,5-Trichlorophenol		0.411	0.407	0.420	0.441	0.423	0.423	2.9
1,1-Biphenyl		1.476	1.458	1.454	1.454	1.396	1.428	3.1
2-Chloronaphthalene		1.153	1.136	1.139	1.149	1.108	1.126	2.5
2-Nitroaniline		0.258	0.279	0.309	0.329	0.319	0.305	8.8
Dimethylphthalate		1.451	1.384	1.382	1.396	1.306	1.365	4.0
Acenaphthylene		1.661	1.634	1.674	1.693	1.613	1.643	2.3
2,6-Dinitrotoluene		0.273	0.290	0.312	0.321	0.310	0.305	5.6
3-Nitroaniline		0.229	0.265	0.300	0.321	0.305	0.287	10.7
Acenaphthene		1.098	1.062	1.058	1.064	1.018	1.044	3.7
2,4-Dinitrophenol			0.136	0.164	0.188	0.189	0.178	13.2
4-Nitrophenol			0.203	0.245	0.277	0.266	0.256	11.1
Dibenzofuran		1.766	1.710	1.701	1.702	1.590	1.658	5.0
2,4-Dinitrotoluene		0.338	0.371	0.406	0.437	0.417	0.402	8.8
Diethylphthalate		1.445	1.389	1.397	1.424	1.340	1.382	3.4
4-Chlorophenyl-phenylether		0.700	0.687	0.685	0.671	0.623	0.656	6.1
Fluorene		1.412	1.361	1.378	1.351	1.248	1.311	6.6
4-Nitroaniline		0.213	0.247	0.300	0.339	0.320	0.297	16.4
4,6-Dinitro-2-methylphenol		0.087	0.098	0.116	0.129	0.124	0.116	14.7
n-Nitrosodiphenylamine		0.549	0.556	0.565	0.570	0.538	0.549	3.0
Azobenzene		1.196	1.238	1.287	1.314	1.224	1.239	3.8
2,4,6-Tribromophenol		0.241	0.246	0.252	0.259	0.240	0.245	3.4
4-Bromophenyl-phenylether		0.205	0.205	0.204	0.208	0.199	0.203	2.1
Hexachlorobenzene		0.252	0.249	0.245	0.251	0.236	0.244	3.2
Atrazine		0.176	0.172	0.150	0.186	0.111	0.154	19.4
Pentachlorophenol		0.145	0.150	0.161	0.172	0.160	0.160	5.9
Phenanthrene		1.043	1.012	1.008	1.017	0.953	0.990	4.1
Anthracene		0.960	0.952	0.985	0.998	0.944	0.959	2.8
Carbazole		0.911	0.923	0.958	0.994	0.927	0.940	3.2
Di-n-butylphthalate		1.131	1.114	1.164	1.241	1.170	1.170	3.7
Fluoranthene		1.236	1.185	1.210	1.223	1.137	1.181	3.8
Benzidine		0.417	0.269	0.107	0.344	0.155	0.231	52.2
Pyrene		1.336	1.312	1.332	1.358	1.335	1.339	1.4
Terphenyl-d14		1.013	1.003	1.005	1.009	0.955	0.980	4.0
Butylbenzylphthalate		0.490	0.502	0.542	0.589	0.583	0.560	8.7
3,3-Dichlorobenzidine		0.432	0.435	0.442	0.473	0.427	0.438	3.8

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.: BM102324 SAS No.: BM102324 SDG No.: BM102324

Instrument ID: Calibration Date(s): 10/23/2024

Calibration Time(s): 12:26

LAB FILE ID: RRF2.5 = BM048200.D RRF005 = BM048201.D RRF010 = BM048202.D
RRF020 = BM048203.D RRF040 = BM048204.D RRF050 = BM048205.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.299	1.258	1.277	1.297	1.264	1.278	1.5
Chrysene		1.273	1.224	1.242	1.244	1.203	1.227	2.5
Bis(2-ethylhexyl)phthalate		0.735	0.758	0.813	0.861	0.839	0.814	6.1
Di-n-octyl phthalate		1.206	1.220	1.357	1.491	1.485	1.409	10.6
Benzo(b)fluoranthene		1.142	1.113	1.179	1.182	1.148	1.147	2.3
Benzo(k)fluoranthene		1.134	1.146	1.109	1.147	1.054	1.109	3.8
Benzo(a)pyrene		0.983	0.965	1.007	1.034	0.990	0.997	2.4
Indeno(1,2,3-cd)pyrene		1.293	1.288	1.343	1.373	1.305	1.323	2.6
Dibenzo(a,h)anthracene		1.093	1.074	1.122	1.147	1.086	1.101	2.6
Benzo(g,h,i)perylene		1.131	1.099	1.138	1.156	1.111	1.128	2.1
1,2,4,5-Tetrachlorobenzene		0.588	0.575	0.572	0.578	0.563	0.572	1.9
1,4-Dioxane		0.538	0.529	0.508	0.502	0.451	0.487	8.7
2,3,4,6-Tetrachlorophenol		0.356	0.353	0.355	0.370	0.337	0.351	3.3
1-Methylnaphthalene		0.724	0.692	0.707	0.712	0.669	0.691	3.8

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM102324 SAS No.: BM102324 SDG NO.: BM102324

EPA Sample No.: SSTDICCC040 Date Analyzed: Oct 23 2024 12:00AM

Lab File ID: BM048204.D Time Analyzed: 17:46

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	155293	7.722	626547	10.52	401678	14.37
	UPPER LIMIT	310586	8.222	1253094	11.016	803356	14.868
	LOWER LIMIT	77646.5	7.222	313273.5	10.016	200839	13.868
	EPA SAMPLE NO.						
01	ICVBM102324	173529	7.72	708890	10.52	458798	14.37
02	PB164286BL	158631	7.72	584492	10.52	345617	14.37

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM102324 SAS No.: BM102324 SDG NO.: BM102324

EPA Sample No.: SSTDICCC040 Date Analyzed: Oct 23 2024 12:00AM

Lab File ID: BM048204.D Time Analyzed: 17:46

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	155293	7.722	626547	10.52	401678	14.37
	UPPER LIMIT	310586	8.222	1253094	11.016	803356	14.868
	LOWER LIMIT	77646.5	7.222	313273.5	10.016	200839	13.868
	EPA SAMPLE NO.						
01	ICVBM102324	173529	7.72	708890	10.52	458798	14.37
02	PB164286BL	158631	7.72	584492	10.52	345617	14.37

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.: BM102324 SAS No.: BM102324 SDG NO.: BM102324

EPA Sample No.: SSTDICCC040 Date Analyzed: Oct 23 2024 12:00AM

Lab File ID: BM048204.D Time Analyzed: 17:46

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	809301	17.109	767144	21.339	886257	24.291
	UPPER LIMIT	1618602	17.609	1534288	21.839	1772514	24.791
	LOWER LIMIT	404650.5	16.609	383572	20.839	443128.5	23.791
	EPA SAMPLE NO.						
01	ICVBM102324	952437	17.11	906115	21.34	1.07728e+	24.29
02	PB164286BL	674329	17.11	563717	21.33	638791	24.29

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.: BM102324 SAS No.: BM102324 SDG NO.: BM102324

EPA Sample No.: SSTDICCC040 Date Analyzed: Oct 23 2024 12:00AM

Lab File ID: BM048204.D Time Analyzed: 17:46

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	809301	17.109	767144	21.339	886257	24.291
	UPPER LIMIT	1618602	17.609	1534288	21.839	1772514	24.791
	LOWER LIMIT	404650.5	16.609	383572	20.839	443128.5	23.791
	EPA SAMPLE NO.						
01	ICVBM102324	952437	17.11	906115	21.34	1.07728e+	24.29
02	PB164286BL	674329	17.11	563717	21.33	638791	24.29

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.

ICVBM102324

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM102324 SAS No.: BM102324 SDG NO.: BM102324

Lab File ID: BM048208.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_M Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 10/23/2024

Level: (low/med) LOW Time Analyzed: 17:46

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBM102324	SSTDICV040	BM048208.D	10/23/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164286BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM102324 SAS No.: BM102324 SDG NO.: BM102324

Lab File ID: BM048209.D Lab Sample ID: PB164286BL

Instrument ID: BNA_M Date Extracted: 10/21/2024

Matrix: (soil/water) Solid Date Analyzed: 10/23/2024

Level: (low/med) LOW Time Analyzed: 18:25

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.: BM102324

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBM102324	BM048208.D	2-Fluorophenol	150	82,401.00	54934	*	10	139
			Phenol-d6	150	82,954.00	55303	*	10	134
			Nitrobenzene-d5	100	82,156.00	82156	*	49	133
			2-Fluorobiphenyl	100	80,513.00	80513	*	52	132
			2,4,6-Tribromophenol	150	86,036.00	57357	*	44	137
			Terphenyl-d14	100	81,390.00	81390	*	48	125

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Surrogate Summary

SW-846

SDG No.: BM102324

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB164286BL	PB164286BL	BM048209.D	2-Fluorophenol	150	159.12	106		18	112
			Phenol-d6	150	144.02	96		15	107
			Nitrobenzene-d5	100	101.34	101		18	107
			2-Fluorobiphenyl	100	102.34	102		20	109
			2,4,6-Tribromophenol	150	142.34	95		10	116
			Terphenyl-d14	100	110.21	110	*	10	105

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM102324

Lab Code: CHEM SAS No.: BM102324 SDG NO.: BM102324

Lab File ID: BM048199.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_M DFTPP Injection Time: 11:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	34.2
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.4
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.2
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	12.5
442	Greater than 50% of mass 198	80.7
443	15.0 - 24.0% of mass 442	15.8 (19.6) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM048200.D	10/23/2024	12:26
SSTDICC005	SSTDICC005	BM048201.D	10/23/2024	13:05
SSTDICC010	SSTDICC010	BM048202.D	10/23/2024	13:45
SSTDICC020	SSTDICC020	BM048203.D	10/23/2024	14:24
SSTDICCC040	SSTDICCC040	BM048204.D	10/23/2024	15:04
SSTDICC050	SSTDICC050	BM048205.D	10/23/2024	15:43
SSTDICC060	SSTDICC060	BM048206.D	10/23/2024	16:23
SSTDICC080	SSTDICC080	BM048207.D	10/23/2024	17:02
ICVBM102324	SSTDICV040	BM048208.D	10/23/2024	17:46
PB164286BL	PB164286BL	BM048209.D	10/23/2024	18:25