

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG No.: BM040224

Instrument ID: BNA_M Calibration Date/Time: 4/2/2024 12:16:52

Lab File ID: BM044881.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	0.649	0.612		-5.701	
Pyridine	1.494	1.456		-2.544	
2-Fluorophenol	1.325	1.282		-3.245	
Benzaldehyde	0.884	0.831		-5.995	
Aniline	2.061	2.033		-1.359	
Phenol-d6	1.749	1.749		0.0	
Phenol	1.725	1.714		-0.638	20.0
bis(2-Chloroethyl) ether	1.411	1.380		-2.197	
2-Chlorophenol	1.415	1.387		-1.979	
1,2-Dichlorobenzene	1.473	1.428		-3.055	
1,3-Dichlorobenzene	1.486	1.433		-3.567	
1,4-Dichlorobenzene	1.494	1.453		-2.744	20.0
Benzyl Alcohol	1.198	1.206		0.668	
2-Methylphenol	1.256	1.280		1.911	
2,2-oxybis(1-Chloropropane)	1.628	1.608		-1.229	
Acetophenone	0.520	0.522		0.385	
3+4-Methylphenols	1.745	1.747		0.115	
n-Nitroso-di-n-propylamine	1.167	1.179	0.050	1.028	
Nitrobenzene-d5	0.406	0.411		1.232	
Hexachloroethane	0.582	0.570		-2.062	
Nitrobenzene	0.397	0.396		-0.252	
Isophorone	0.722	0.724		0.277	
2-Nitrophenol	0.182	0.190		4.396	20.0
2,4-Dimethylphenol	0.304	0.306		0.658	
bis(2-Chloroethoxy) methane	0.446	0.446		0.0	
2,4-Dichlorophenol	0.309	0.320		3.56	20.0
1,2,4-Trichlorobenzene	0.323	0.325		0.619	
Benzoic acid	0.254	0.251		-1.181	
Naphthalene	1.081	1.073		-0.74	
4-Chloroaniline	0.471	0.473		0.425	
Hexachlorobutadiene	0.184	0.185		0.543	20.0
Caprolactam	0.112	0.108		-3.571	
4-Chloro-3-methylphenol	0.335	0.334		-0.299	20.0
2-Methylnaphthalene	0.777	0.763		-1.802	
Hexachlorocyclopentadiene	0.308	0.320	0.050	3.896	
2,4,6-Trichlorophenol	0.389	0.410		5.398	20.0
2-Fluorobiphenyl	1.475	1.503		1.898	
2,4,5-Trichlorophenol	0.466	0.474		1.717	
1,1-Biphenyl	1.497	1.504		0.468	

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG No.: BM040224

Instrument ID: BNA_M Calibration Date/Time: 4/2/2024 12:16:52

Lab File ID: BM044881.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	1.137	1.146		0.792	
2-Nitroaniline	0.360	0.366		1.667	
Dimethylphthalate	1.578	1.505		-4.626	
Acenaphthylene	1.892	1.894		0.106	
2,6-Dinitrotoluene	0.331	0.326		-1.511	
3-Nitroaniline	0.372	0.376		1.075	
Acenaphthene	1.141	1.141		0.0	20.0
2,4-Dinitrophenol	0.193	0.190	0.050	-1.554	
4-Nitrophenol	0.301	0.294	0.050	-2.326	
Dibenzofuran	1.881	1.856		-1.329	
2,4-Dinitrotoluene	0.463	0.455		-1.728	
Diethylphthalate	1.622	1.546		-4.686	
4-Chlorophenyl-phenylether	0.739	0.722		-2.3	
Fluorene	1.524	1.495		-1.903	
4-Nitroaniline	0.346	0.351		1.445	
4,6-Dinitro-2-methylphenol	0.127	0.130		2.362	
n-Nitrosodiphenylamine	0.605	0.619		2.314	20.0
Azobenzene	1.565	1.541		-1.534	
2,4,6-Tribromophenol	0.292	0.289		-1.027	
4-Bromophenyl-phenylether	0.213	0.216		1.408	
Hexachlorobenzene	0.248	0.252		1.613	
Atrazine	0.196	0.197		0.51	
Pentachlorophenol	0.179	0.180		0.559	20.0
Phenanthrene	1.112	1.106		-0.54	
Anthracene	1.126	1.134		0.71	
Carbazole	1.060	1.054		-0.566	
Di-n-butylphthalate	1.364	1.349		-1.1	
Fluoranthene	1.316	1.287		-2.204	20.0
Benzidine	0.373	0.446		19.571	
Pyrene	1.332	1.335		0.225	
Terphenyl-d14	1.171	1.182		0.939	
Butylbenzylphthalate	0.615	0.614		-0.163	
3,3-Dichlorobenzidine	0.510	0.511		0.196	
Benzo(a)anthracene	1.380	1.352		-2.029	
Chrysene	1.310	1.298		-0.916	
Bis(2-ethylhexyl)phthalate	0.982	1.000		1.833	
Di-n-octyl phthalate	1.634	1.629		-0.306	20.0
Benzo(b)fluoranthene	1.186	1.164		-1.855	
Benzo(k)fluoranthene	1.178	1.190		1.019	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG No.: BM040224

Instrument ID: BNA_M Calibration Date/Time: 4/2/2024 12:16:52

Lab File ID: BM044881.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	1.149	1.154		0.435	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.488		-0.866	
Dibenzo(a,h)anthracene	1.264	1.260		-0.316	
Benzo(g,h,i)perylene	1.214	1.208		-0.494	
1,2,4,5-Tetrachlorobenzene	0.549	0.558		1.639	
1,4-Dioxane	0.516	0.489		-5.233	20.0
2,3,4,6-Tetrachlorophenol	0.387	0.381		-1.55	
1-Methylnaphthalene	0.735	0.717		-2.449	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM040224			SDG No.:	BM040224		
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
BM044885.D	1		4/2/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	37200		1000	8000	10000	ug/L
110-86-1	Pyridine	39800		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	39400		4000	8000	10000	ug/L
62-53-3	Aniline	39700		1600	4000	5000	ug/L
108-95-2	Phenol	39700		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	38100		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	39600		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	38800		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	38800		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39200		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	41000		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	40500		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38700		1400	4000	5000	ug/L
98-86-2	Acetophenone	39900		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	40200		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40100		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	39500		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	40300		1300	4000	5000	ug/L
78-59-1	Isophorone	39900		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	42000		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	40100		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39800		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	40500		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39200		1100	4000	5000	ug/L
65-85-0	Benzoic acid	40600		5500	8000	10000	ug/L
91-20-3	Naphthalene	39200		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	41000		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	39000		1300	4000	5000	ug/L
105-60-2	Caprolactam	40900		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	40900		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	39000		1100	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM040224			SDG No.:	BM040224		
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
BM044885.D	1		4/2/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	39000		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	41000		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	40400		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	39300		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	39200		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	41300		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	38800		930	4000	5000	ug/L
208-96-8	Acenaphthylene	39400		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	40000		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	41100		1400	4000	5000	ug/L
83-32-9	Acenaphthene	39100		810	4000	5000	ug/L
Total PAH	Total PAH	634100		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	38400		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	40700		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	38900		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	40400		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	80400		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	39400		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38000		980	4000	5000	ug/L
86-73-7	Fluorene	38900		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	42600		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	40900		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	40500		890	4000	5000	ug/L
103-33-3	Azobenzene	40000		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	39500		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	39400		1100	4000	5000	ug/L
1912-24-9	Atrazine	41300		1300	4000	5000	ug/L
87-86-5	Pentachlorophenol	40600		1900	8000	10000	ug/L
85-01-8	Phenanthrene	39500		890	4000	5000	ug/L
120-12-7	Anthracene	40100		1100	4000	5000	ug/L
86-74-8	Carbazole	40500		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	41200		1500	4000	5000	ug/L
206-44-0	Fluoranthene	39600		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM040224			SDG No.:	BM040224		
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
BM044885.D	1		4/2/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	46000		4100	8000	10000	ug/L
129-00-0	Pyrene	40600		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	41800		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	40700		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	39900		940	4000	5000	ug/L
218-01-9	Chrysene	39800		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	41400		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	42300		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	39100		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	40700		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	40100		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	39200		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	39400		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	39500		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	38900		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	39000		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40300		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	38800		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	79024	*	10-139		52683	SPK: -150
13127-88-3	Phenol-d6	79505	*	10-134		53003	SPK: -150
4165-60-0	Nitrobenzene-d5	80366	*	49-133		80366	SPK: -100
321-60-8	2-Fluorobiphenyl	77778	*	52-132		77778	SPK: -100
118-79-6	2,4,6-Tribromophenol	80305	*	32-145		53537	SPK: -150
1718-51-0	Terphenyl-d14	79031	*	36-145		79031	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	100589	7.646				
1146-65-2	Naphthalene-d8	433136	10.428				
15067-26-2	Acenaphthene-d10	279311	14.298				
1517-22-2	Phenanthrene-d10	578345	17.057				
1719-03-5	Chrysene-d12	594461	21.262				
1520-96-3	Perylene-d12	718617	23.492				



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:

Project:

Client Sample ID:ICVBM040224

Lab Sample ID:SSTDICV040

Analytical Method:8270E

Sample Wt/Vol:1000Units:mL

Soil Aliquot Vol:uL

Extraction Type :Decanted :

Injection Volume :GPC Factor :

Date Collected:

Date Received:

SDG No.:BM040224

Matrix:Water

% Moisture:100

Final Vol:1000000uL

Test:

Level :LOW

GPC Cleanup :PH :

File ID/Qc Batch:BM044885.D

Dilution:1

Prep Date

Date Analyzed4/2/2024 12:00:00 AM

Prep Batch ID

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

Client:		Date Collected:	4/1/2024 12:00:00 AM
Project:		Date Received:	4/1/2024 12:00:00 AM
Client Sample ID:	PB159911BL	SDG No.:	BM040224
Lab Sample ID:	PB159911BL	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
BM044886.D	1	4/1/2024 12:00:00 AM	4/2/2024 12:00:00 AM	PB159911

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
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

Report of Analysis

Client:		Date Collected:	4/1/2024 12:00:00 AM
Project:		Date Received:	4/1/2024 12:00:00 AM
Client Sample ID:	PB159911BL	SDG No.:	BM040224
Lab Sample ID:	PB159911BL	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
BM044886.D	1	4/1/2024 12:00:00 AM	4/2/2024 12:00:00 AM	PB159911

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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)	69.2	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
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

Report of Analysis

Client:		Date Collected:	4/1/2024 12:00:00 AM
Project:		Date Received:	4/1/2024 12:00:00 AM
Client Sample ID:	PB159911BL	SDG No.:	BM040224
Lab Sample ID:	PB159911BL	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
BM044886.D	1	4/1/2024 12:00:00 AM	4/2/2024 12:00:00 AM	PB159911

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	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	139.876		18-112		93	SPK: -150
13127-88-3	Phenol-d6	124.532		15-107		83	SPK: -150
4165-60-0	Nitrobenzene-d5	87.294		18-107		87	SPK: -100
321-60-8	2-Fluorobiphenyl	89.185		20-109		89	SPK: -100
118-79-6	2,4,6-Tribromophenol	122.161		10-110		81	SPK: -150
1718-51-0	Terphenyl-d14	90.915		14-112		91	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	94484	7.645				
1146-65-2	Naphthalene-d8	341381	10.428				
15067-26-2	Acenaphthene-d10	194789	14.298				
1517-22-2	Phenanthrene-d10	384331	17.056				
1719-03-5	Chrysene-d12	370953	21.262				
1520-96-3	Perylene-d12	487120	23.491				



Report of Analysis

Client:		Date Collected:	4/1/2024 12:00:00 AM
Project:		Date Received:	4/1/2024 12:00:00 AM
Client Sample ID:	PB159911BL	SDG No.:	BM040224
Lab Sample ID:	PB159911BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 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
BM044886.D	1	4/1/2024 12:00:00 AM	4/2/2024 12:00:00 AM	PB159911

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Hit Summary Sheet SW-846

SDG No.: BM040224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : ICVBM040224								
SSTDICV040	ICVBM040224	Water	1,1-Biphenyl	39,300.000	910		5000	ug/L
SSTDICV040	ICVBM040224	Water	1,2,4,5-Tetrachlorobenzene	38,900.000	1100		5000	ug/L
SSTDICV040	ICVBM040224	Water	1,2,4-Trichlorobenzene	39,200.000	1100		5000	ug/L
SSTDICV040	ICVBM040224	Water	1,2-Dichlorobenzene	38,800.000	880		5000	ug/L
SSTDICV040	ICVBM040224	Water	1,3-Dichlorobenzene	38,800.000	800		5000	ug/L
SSTDICV040	ICVBM040224	Water	1,4-Dichlorobenzene	39,200.000	840		5000	ug/L
SSTDICV040	ICVBM040224	Water	1,4-Dioxane	39,000.000	1300		5000	ug/L
SSTDICV040	ICVBM040224	Water	1-Methylnaphthalene	38,800.000	860		5000	ug/L
SSTDICV040	ICVBM040224	Water	2,2-oxybis(1-Chloropropane)	38,700.000	1400		5000	ug/L
SSTDICV040	ICVBM040224	Water	2,3,4,6-Tetrachlorophenol	40,300.000	790		5000	ug/L
SSTDICV040	ICVBM040224	Water	2,4,5-Trichlorophenol	40,400.000	1000		5000	ug/L
SSTDICV040	ICVBM040224	Water	2,4,6-Trichlorophenol	41,000.000	890		5000	ug/L
SSTDICV040	ICVBM040224	Water	2,4-Dichlorophenol	40,500.000	880		5000	ug/L
SSTDICV040	ICVBM040224	Water	2,4-Dimethylphenol	40,100.000	1500		5000	ug/L
SSTDICV040	ICVBM040224	Water	2,4-Dinitrophenol	38,400.000	6400		10000	ug/L
SSTDICV040	ICVBM040224	Water	2,4-Dinitrotoluene	40,400.000	1500		5000	ug/L
SSTDICV040	ICVBM040224	Water	2,6-Dinitrotoluene	40,000.000	1200		5000	ug/L
SSTDICV040	ICVBM040224	Water	2-Chloronaphthalene	39,200.000	970		5000	ug/L
SSTDICV040	ICVBM040224	Water	2-Chlorophenol	39,600.000	710		5000	ug/L
SSTDICV040	ICVBM040224	Water	2-Methylnaphthalene	39,000.000	1100		5000	ug/L
SSTDICV040	ICVBM040224	Water	2-Methylphenol	40,500.000	1100		5000	ug/L
SSTDICV040	ICVBM040224	Water	2-Nitroaniline	41,300.000	1400		5000	ug/L
SSTDICV040	ICVBM040224	Water	2-Nitrophenol	42,000.000	2000		5000	ug/L
SSTDICV040	ICVBM040224	Water	3+4-Methylphenols	40,200.000	1200		10000	ug/L
SSTDICV040	ICVBM040224	Water	3,3-Dichlorobenzidine	40,700.000	1300		10000	ug/L
SSTDICV040	ICVBM040224	Water	3-Nitroaniline	41,100.000	1400		5000	ug/L
SSTDICV040	ICVBM040224	Water	4,6-Dinitro-2-methylphenol	40,900.000	3100		10000	ug/L
SSTDICV040	ICVBM040224	Water	4-Bromophenyl-phenylether	39,500.000	950		5000	ug/L
SSTDICV040	ICVBM040224	Water	4-Chloro-3-methylphenol	40,900.000	840		5000	ug/L
SSTDICV040	ICVBM040224	Water	4-Chloroaniline	41,000.000	1300		5000	ug/L
SSTDICV040	ICVBM040224	Water	4-Chlorophenyl-phenylether	38,000.000	980		5000	ug/L
SSTDICV040	ICVBM040224	Water	4-Nitroaniline	42,600.000	2000		5000	ug/L
SSTDICV040	ICVBM040224	Water	4-Nitrophenol	40,700.000	2000		10000	ug/L
SSTDICV040	ICVBM040224	Water	Acenaphthene	39,100.000	810		5000	ug/L
SSTDICV040	ICVBM040224	Water	Acenaphthylene	39,400.000	1000		5000	ug/L
SSTDICV040	ICVBM040224	Water	Acetophenone	39,900.000	1100		5000	ug/L
SSTDICV040	ICVBM040224	Water	Aniline	39,700.000	1600		5000	ug/L

**Hit Summary Sheet
SW-846**

SDG No.: BM040224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM040224	Water	Anthracene	40,100.000		1100	5000	ug/L
SSTDICV040	ICVBM040224	Water	Atrazine	41,300.000		1300	5000	ug/L
SSTDICV040	ICVBM040224	Water	Azobenzene	40,000.000		1200	5000	ug/L
SSTDICV040	ICVBM040224	Water	Benzaldehyde	39,400.000		4000	10000	ug/L
SSTDICV040	ICVBM040224	Water	Benzidine	46,000.000		4100	10000	ug/L
SSTDICV040	ICVBM040224	Water	Benzo(a)anthracene	39,900.000		940	5000	ug/L
SSTDICV040	ICVBM040224	Water	Benzo(a)pyrene	40,100.000		1700	5000	ug/L
SSTDICV040	ICVBM040224	Water	Benzo(b)fluoranthene	39,100.000		1100	5000	ug/L
SSTDICV040	ICVBM040224	Water	Benzo(g,h,i)perylene	39,500.000		1200	5000	ug/L
SSTDICV040	ICVBM040224	Water	Benzo(k)fluoranthene	40,700.000		1200	5000	ug/L
SSTDICV040	ICVBM040224	Water	Benzoic acid	40,600.000		5500	10000	ug/L
SSTDICV040	ICVBM040224	Water	Benzyl Alcohol	41,000.000		1600	10000	ug/L
SSTDICV040	ICVBM040224	Water	bis(2-Chloroethoxy)methane	39,800.000		1000	5000	ug/L
SSTDICV040	ICVBM040224	Water	bis(2-Chloroethyl)ether	38,100.000		1200	5000	ug/L
SSTDICV040	ICVBM040224	Water	Bis(2-ethylhexyl)phthalate	41,400.000		1900	5000	ug/L
SSTDICV040	ICVBM040224	Water	Butylbenzylphthalate	41,800.000		2100	5000	ug/L
SSTDICV040	ICVBM040224	Water	Caprolactam	40,900.000		1700	10000	ug/L
SSTDICV040	ICVBM040224	Water	Carbazole	40,500.000		1200	5000	ug/L
SSTDICV040	ICVBM040224	Water	Chrysene	39,800.000		860	5000	ug/L
SSTDICV040	ICVBM040224	Water	Di-n-butylphthalate	41,200.000		1500	5000	ug/L
SSTDICV040	ICVBM040224	Water	Di-n-octyl phthalate	42,300.000		2500	10000	ug/L
SSTDICV040	ICVBM040224	Water	Dibenzo(a,h)anthracene	39,400.000		1200	5000	ug/L
SSTDICV040	ICVBM040224	Water	Dibenzofuran	38,900.000		930	5000	ug/L
SSTDICV040	ICVBM040224	Water	Diethylphthalate	39,400.000		1000	5000	ug/L
SSTDICV040	ICVBM040224	Water	Dimethylphthalate	38,800.000		930	5000	ug/L
SSTDICV040	ICVBM040224	Water	Fluoranthene	39,600.000		1300	5000	ug/L
SSTDICV040	ICVBM040224	Water	Fluorene	38,900.000		960	5000	ug/L
SSTDICV040	ICVBM040224	Water	Hexachlorobenzene	39,400.000		1100	5000	ug/L
SSTDICV040	ICVBM040224	Water	Hexachlorobutadiene	39,000.000		1300	5000	ug/L
SSTDICV040	ICVBM040224	Water	Hexachlorocyclopentadiene	39,000.000		5000	10000	ug/L
SSTDICV040	ICVBM040224	Water	Hexachloroethane	39,500.000		1000	5000	ug/L
SSTDICV040	ICVBM040224	Water	Indeno(1,2,3-cd)pyrene	39,200.000		1000	5000	ug/L
SSTDICV040	ICVBM040224	Water	Isophorone	39,900.000		1100	5000	ug/L
SSTDICV040	ICVBM040224	Water	n-Nitroso-di-n-propylamine	40,100.000		1500	2500	ug/L
SSTDICV040	ICVBM040224	Water	n-Nitrosodimethylamine	37,200.000		1000	10000	ug/L
SSTDICV040	ICVBM040224	Water	n-Nitrosodiphenylamine	40,500.000		890	5000	ug/L
SSTDICV040	ICVBM040224	Water	Naphthalene	39,200.000		1000	5000	ug/L
SSTDICV040	ICVBM040224	Water	Nitrobenzene	40,300.000		1300	5000	ug/L
SSTDICV040	ICVBM040224	Water	Pentachlorophenol	40,600.000		1900	10000	ug/L
SSTDICV040	ICVBM040224	Water	Phenanthrene	39,500.000		890	5000	ug/L

Hit Summary Sheet
SW-846

SDG No.: BM040224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM040224	Water	Phenol	39,700.000		930	5000	ug/L
SSTDICV040	ICVBM040224	Water	Pyrene	40,600.000		1100	5000	ug/L
SSTDICV040	ICVBM040224	Water	Pyridine	39,800.000		1600	5000	ug/L
SSTDICV040	ICVBM040224	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	80,400.000		2700	10000	ug/L
SSTDICV040	ICVBM040224	Water	Total PAH	634,100.000		17360	80000	ug/L
Total Svoc :				3,913,600.00				
Total Concentration:				3,913,600.00				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG No.: BM040224
Instrument ID: _____ Calibration Date(s): 4/2/2024 1: _____
Calibration Time(s): 13:33 _____

LAB FILE ID:		RRF2.5 = BM044877.D			RRF005 = BM044878.D		RRF010 = BM044879.D	
		RRF020 = BM044880.D			RRF040 = BM044881.D		RRF050 = BM044882.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.677	0.635	0.707	0.612	0.639	0.649	5.0
Pyridine		1.275	1.479	1.624	1.456	1.554	1.494	7.5
2-Fluorophenol		1.212	1.319	1.421	1.282	1.351	1.325	5.1
Benzaldehyde		0.995	1.012	1.003	0.831	0.841	0.884	13.7
Aniline		1.827	1.965	2.180	2.033	2.167	2.061	6.4
Phenol-d6		1.500	1.643	1.852	1.749	1.860	1.749	7.7
Phenol		1.516	1.658	1.803	1.714	1.818	1.725	6.4
bis(2-Chloroethyl)ether		1.339	1.423	1.484	1.380	1.430	1.411	3.4
2-Chlorophenol		1.299	1.372	1.511	1.387	1.451	1.415	5.0
1,2-Dichlorobenzene		1.441	1.450	1.566	1.428	1.486	1.473	3.3
1,3-Dichlorobenzene		1.455	1.491	1.581	1.433	1.481	1.486	3.4
1,4-Dichlorobenzene		1.421	1.481	1.588	1.453	1.507	1.494	3.7
Benzyl Alcohol		0.970	1.076	1.230	1.206	1.311	1.198	10.9
2-Methylphenol		1.020	1.166	1.363	1.280	1.343	1.256	9.9
2,2-oxybis(1-Chloropropane)		1.534	1.628	1.741	1.608	1.659	1.628	4.3
Acetophenone		0.483	0.504	0.533	0.522	0.527	0.520	3.9
3+4-Methylphenols		1.415	1.624	1.878	1.747	1.882	1.745	10.1
n-Nitroso-di-n-propylamine	0.982	1.038	1.162	1.270	1.179	1.267	1.167	9.2
Nitrobenzene-d5		0.362	0.379	0.416	0.411	0.421	0.406	6.4
Hexachloroethane		0.561	0.563	0.596	0.570	0.594	0.582	3.0
Nitrobenzene		0.370	0.383	0.408	0.396	0.404	0.397	4.2
Isophorone		0.629	0.711	0.746	0.724	0.760	0.722	6.4
2-Nitrophenol		0.140	0.163	0.184	0.190	0.195	0.182	12.4
2,4-Dimethylphenol		0.273	0.286	0.314	0.306	0.317	0.304	6.0
bis(2-Chloroethoxy)methane		0.414	0.433	0.465	0.446	0.454	0.446	4.1
2,4-Dichlorophenol		0.257	0.277	0.324	0.320	0.327	0.309	9.7
1,2,4-Trichlorobenzene		0.304	0.313	0.333	0.325	0.325	0.323	3.6
Benzoic acid			0.198	0.239	0.251	0.278	0.254	12.7
Naphthalene		1.028	1.066	1.113	1.073	1.094	1.081	2.9
4-Chloroaniline		0.392	0.448	0.491	0.473	0.502	0.471	8.5
Hexachlorobutadiene		0.176	0.177	0.189	0.185	0.182	0.184	3.3
Caprolactam		0.091	0.113	0.123	0.108	0.122	0.112	9.5
4-Chloro-3-methylphenol		0.266	0.327	0.362	0.334	0.358	0.335	9.9
2-Methylnaphthalene		0.744	0.763	0.800	0.763	0.793	0.777	3.0
Hexachlorocyclopentadiene			0.238	0.288	0.320	0.310	0.308	13.2
2,4,6-Trichlorophenol		0.311	0.340	0.402	0.410	0.410	0.389	11.5

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG No.: BM040224
Instrument ID: _____ Calibration Date(s): 4/2/2024 1: _____
Calibration Time(s): 13:33 _____

LAB FILE ID:		RRF2.5 = BM044877.D			RRF005 = BM044878.D		RRF010 = BM044879.D	
		RRF020 = BM044880.D			RRF040 = BM044881.D		RRF050 = BM044882.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.360	1.369	1.491	1.503	1.483	1.475	5.6
2,4,5-Trichlorophenol		0.405	0.423	0.481	0.474	0.485	0.466	8.0
1,1-Biphenyl		1.423	1.394	1.527	1.504	1.503	1.497	4.5
2-Chloronaphthalene		1.080	1.051	1.160	1.146	1.139	1.137	4.8
2-Nitroaniline		0.288	0.320	0.370	0.366	0.385	0.360	11.3
Dimethylphthalate		1.512	1.587	1.640	1.505	1.608	1.578	3.5
Acenaphthylene		1.705	1.799	1.947	1.894	1.937	1.892	5.6
2,6-Dinitrotoluene		0.297	0.315	0.344	0.326	0.344	0.331	6.1
3-Nitroaniline		0.302	0.324	0.394	0.376	0.404	0.372	11.3
Acenaphthene		1.065	1.095	1.164	1.141	1.159	1.141	4.1
2,4-Dinitrophenol			0.138	0.181	0.190	0.215	0.193	16.2
4-Nitrophenol			0.247	0.306	0.294	0.322	0.301	9.6
Dibenzofuran		1.795	1.806	1.946	1.856	1.925	1.881	3.5
2,4-Dinitrotoluene		0.390	0.421	0.487	0.455	0.502	0.463	9.4
Diethylphthalate		1.499	1.613	1.685	1.546	1.705	1.622	4.8
4-Chlorophenyl-phenylether		0.695	0.723	0.755	0.722	0.766	0.739	4.0
Fluorene		1.368	1.481	1.581	1.495	1.602	1.524	5.6
4-Nitroaniline		0.272	0.285	0.364	0.351	0.392	0.346	13.9
4,6-Dinitro-2-methylphenol			0.098	0.120	0.130	0.135	0.127	12.5
n-Nitrosodiphenylamine		0.541	0.559	0.623	0.619	0.616	0.605	6.5
Azobenzene		1.431	1.487	1.620	1.541	1.644	1.565	5.3
2,4,6-Tribromophenol		0.238	0.279	0.313	0.289	0.315	0.292	9.4
4-Bromophenyl-phenylether		0.197	0.196	0.220	0.216	0.216	0.213	5.8
Hexachlorobenzene		0.231	0.236	0.253	0.252	0.249	0.248	4.1
Atrazine		0.178	0.194	0.209	0.197	0.199	0.196	4.9
Pentachlorophenol			0.148	0.180	0.180	0.186	0.179	9.1
Phenanthrene		1.045	1.074	1.144	1.106	1.129	1.112	3.6
Anthracene		1.013	1.061	1.162	1.134	1.165	1.126	5.8
Carbazole		0.938	1.027	1.114	1.054	1.089	1.060	6.0
Di-n-butylphthalate		1.145	1.265	1.399	1.349	1.445	1.364	9.0
Fluoranthene		1.231	1.300	1.387	1.287	1.338	1.316	3.9
Benzidine		0.300	0.356	0.350	0.446	0.383	0.373	12.1
Pyrene		1.180	1.234	1.341	1.335	1.384	1.332	7.1
Terphenyl-d14		1.023	1.070	1.185	1.182	1.232	1.171	7.9
Butylbenzylphthalate		0.473	0.538	0.605	0.614	0.666	0.615	14.0
3,3-Dichlorobenzidine		0.445	0.482	0.531	0.511	0.529	0.510	7.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG No.: BM040224
Instrument ID: _____ Calibration Date(s): 4/2/2024 1: _____
Calibration Time(s): 13:33 _____

LAB FILE ID:		RRF2.5 = BM044877.D			RRF005 = BM044878.D		RRF010 = BM044879.D	
		RRF020 = BM044880.D			RRF040 = BM044881.D		RRF050 = BM044882.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.304	1.313	1.418	1.352	1.405	1.380	4.2
Chrysene		1.234	1.244	1.348	1.298	1.336	1.310	4.1
Bis(2-ethylhexyl)phthalate		0.772	0.840	0.959	1.000	1.086	0.982	13.7
Di-n-octyl phthalate		1.318	1.433	1.614	1.629	1.768	1.634	12.3
Benzo(b)fluoranthene		1.067	1.103	1.207	1.164	1.215	1.186	6.8
Benzo(k)fluoranthene		1.070	1.098	1.212	1.190	1.261	1.178	5.9
Benzo(a)pyrene		1.017	1.067	1.170	1.154	1.200	1.149	6.8
Indeno(1,2,3-cd)pyrene		1.385	1.425	1.548	1.488	1.542	1.501	4.9
Dibenzo(a,h)anthracene		1.167	1.193	1.293	1.260	1.299	1.264	4.9
Benzo(g,h,i)perylene		1.143	1.162	1.248	1.208	1.230	1.214	3.9
1,2,4,5-Tetrachlorobenzene		0.508	0.507	0.564	0.558	0.549	0.549	5.5
1,4-Dioxane		0.477	0.542	0.577	0.489	0.522	0.516	6.9
2,3,4,6-Tetrachlorophenol		0.345	0.379	0.419	0.381	0.398	0.387	6.0
1-Methylnaphthalene		0.700	0.747	0.758	0.717	0.750	0.735	3.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG NO.: BM040224

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 2 2024 12:00AM

Lab File ID: BM044881.D Time Analyzed: 19:52

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	102584	7.651	440589	10.43	276168	14.30
UPPER LIMIT	205168	8.151	881178	10.928	552336	14.798
LOWER LIMIT	51292	7.151	220294.5	9.928	138084	13.798
EPA SAMPLE NO.						
01 ICVBM040224	100589	7.65	433136	10.43	279311	14.30
02 PB159911BL	94484	7.65	341381	10.43	194789	14.30

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.



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG NO.: BM040224

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 2 2024 12:00AM

Lab File ID: BM044881.D Time Analyzed: 19:52

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	102584	7.651	440589	10.43	276168	14.30
UPPER LIMIT	205168	8.151	881178	10.928	552336	14.798
LOWER LIMIT	51292	7.151	220294.5	9.928	138084	13.798
EPA SAMPLE NO.						
01 ICVBM040224	100589	7.65	433136	10.43	279311	14.30
02 PB159911BL	94484	7.65	341381	10.43	194789	14.30

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG NO.: BM040224

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 2 2024 12:00AM

Lab File ID: BM044881.D Time Analyzed: 19:52

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	552678	17.057	560868	21.268	672128	23.497
UPPER LIMIT	1105356	17.557	1121736	21.768	1344256	23.997
LOWER LIMIT	276339	16.557	280434	20.768	336064	22.997
EPA SAMPLE NO.						
01 ICVBM040224	578345	17.06	594461	21.26	718617	23.49
02 PB159911BL	384331	17.06	370953	21.26	487120	23.49

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM040224 SAS No.: BM040224 SDG NO.: BM040224

EPA Sample No.: SSTDICCC040 Date Analyzed: Apr 2 2024 12:00AM

Lab File ID: BM044881.D Time Analyzed: 19:52

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	552678	17.057	560868	21.268	672128	23.497
UPPER LIMIT	1105356	17.557	1121736	21.768	1344256	23.997
LOWER LIMIT	276339	16.557	280434	20.768	336064	22.997
EPA SAMPLE NO.						
01 ICVBM040224	578345	17.06	594461	21.26	718617	23.49
02 PB159911BL	384331	17.06	370953	21.26	487120	23.49

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.



Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: _____

Client: _____

Analytical Method: _____ DataFile: _____

							RPD		Limits			
Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Qual	Low	High	RPD	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBM040224

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM040224

SAS No.: BM040224 SDG NO.: BM040224

Lab File ID: BM044885.D

Lab Sample ID: SSTDICV040

Instrument ID: BNA_M

Date Extracted: _____

Matrix: (soil/water) Water

Date Analyzed: 04/02/2024

Level: (low/med) LOW

Time Analyzed: 19:52

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBM040224	SSTDICV040	BM044885.D	04/02/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159911BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM040224

SAS No.: BM040224 SDG NO.: BM040224

Lab File ID: BM044886.D

Lab Sample ID: PB159911BL

Instrument ID: BNA_M

Date Extracted: 04/01/2024

Matrix: (soil/water) Solid

Date Analyzed: 04/02/2024

Level: (low/med) LOW

Time Analyzed: 20:28

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

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

COMMENTS: _____



Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BM040224

Client: _____

Analytical Method:

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
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Lab Sample ID:

Client Sample ID:

DataFile:



Surrogate Summary
SW-846

SDG No.: BM040224

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV040	ICVBM040224	BM044885.D	2-Fluorophenol	150	79,024.00	52683	*	10	139
			Phenol-d6	150	79,505.00	53003	*	10	134
			Nitrobenzene-d5	100	80,366.00	80366	*	49	133
			2-Fluorobiphenyl	100	77,778.00	77778	*	52	132
			2,4,6-Tribromophenol	150	80,305.00	53537	*	32	145
			Terphenyl-d14	100	79,031.00	79031	*	36	145



Surrogate Summary
SW-846

SDG No.: BM040224

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB159911BL	PB159911BL	BM044886.D	2-Fluorophenol	150	139.88	93		18	112
			Phenol-d6	150	124.53	83		15	107
			Nitrobenzene-d5	100	87.29	87		18	107
			2-Fluorobiphenyl	100	89.19	89		20	109
			2,4,6-Tribromophenol	150	122.16	81		10	110
			Terphenyl-d14	100	90.92	91		14	112

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM040224

Lab Code: CHEM

SAS No.: BM040224

SDG NO.: BM040224

Lab File ID: BM044876.D

DFTPP Injection Date: 04/02/2024

Instrument ID: BNA_M

DFTPP Injection Time: 12:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.8
68	Less than 2.0% of mass 69	0.8 (1.7) 1
69	Mass 69 relative abundance	47.3
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	55.6
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	6.9
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	93.9
443	15.0 - 24.0% of mass 442	19.1 (20.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM044877.D	04/02/2024	13:33
SSTDICC005	SSTDICC005	BM044878.D	04/02/2024	15:03
SSTDICC010	SSTDICC010	BM044879.D	04/02/2024	15:39
SSTDICC020	SSTDICC020	BM044880.D	04/02/2024	16:15
SSTDICCC040	SSTDICCC040	BM044881.D	04/02/2024	16:52
SSTDICC050	SSTDICC050	BM044882.D	04/02/2024	17:28
SSTDICC060	SSTDICC060	BM044883.D	04/02/2024	18:04
SSTDICC080	SSTDICC080	BM044884.D	04/02/2024	18:40
ICVBM040224	SSTDICV040	BM044885.D	04/02/2024	19:52
PB159911BL	PB159911BL	BM044886.D	04/02/2024	20:28