

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF061124 SAS No.: BF061124 SDG No.: BF061124

Instrument ID: BNA_F Calibration Date/Time: 6/11/2024 1:10:26

Lab File ID: BF138183.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.647	0.629		-2.782	
Pyridine	1.318	1.375		4.325	
2-Fluorophenol	1.174	1.252		6.644	
Benzaldehyde	0.791	0.825		4.298	
Aniline	1.505	1.560		3.654	
Phenol-d6	1.485	1.568		5.589	
Phenol	1.525	1.605		5.246	20.0
bis(2-Chloroethyl) ether	1.223	1.260		3.025	
2-Chlorophenol	1.270	1.364		7.402	
1,2-Dichlorobenzene	1.375	1.437		4.509	
1,3-Dichlorobenzene	1.455	1.523		4.674	
1,4-Dichlorobenzene	1.465	1.528		4.3	20.0
Benzyl Alcohol	1.051	1.098		4.472	
2-Methylphenol	1.028	1.065		3.599	
2,2-oxybis(1-Chloropropane)	1.795	1.799		0.223	
Acetophenone	0.460	0.459		-0.217	
3+4-Methylphenols	1.279	1.368		6.959	
n-Nitroso-di-n-propylamine	0.947	0.934	0.050	-1.373	
Nitrobenzene-d5	0.294	0.359		22.109	
Hexachloroethane	0.500	0.532		6.4	
Nitrobenzene	0.320	0.369		15.312	
Isophorone	0.648	0.640		-1.235	
2-Nitrophenol	0.108	0.173		60.185	20.0
2,4-Dimethylphenol	0.225	0.239		6.222	
bis(2-Chloroethoxy) methane	0.394	0.397		0.761	
2,4-Dichlorophenol	0.271	0.293		8.118	20.0
1,2,4-Trichlorobenzene	0.327	0.334		2.141	
Benzoic acid	0.148	0.237		60.135	
Naphthalene	0.967	1.000		3.413	
4-Chloroaniline	0.364	0.373		2.473	
Hexachlorobutadiene	0.192	0.194		1.042	20.0
Caprolactam	0.091	0.097		6.593	
4-Chloro-3-methylphenol	0.278	0.295		6.115	20.0
2-Methylnaphthalene	0.652	0.667		2.301	
Hexachlorocyclopentadiene	0.186	0.213	0.050	14.516	
2,4,6-Trichlorophenol	0.343	0.390		13.703	20.0
2-Fluorobiphenyl	1.144	1.211		5.857	
2,4,5-Trichlorophenol	0.378	0.423		11.905	
1,1-Biphenyl	1.405	1.474		4.911	

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Lab File ID: BF138183.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.120	1.168		4.286	
2-Nitroaniline	0.229	0.320		39.738	
Dimethylphthalate	1.257	1.290		2.625	
Acenaphthylene	1.584	1.665		5.114	
2,6-Dinitrotoluene	0.235	0.304		29.362	
3-Nitroaniline	0.240	0.324		35.0	
Acenaphthene	1.071	1.146		7.003	20.0
2,4-Dinitrophenol	0.060	0.129	0.050	115.0	
4-Nitrophenol	0.191	0.266	0.050	39.267	
Dibenzofuran	1.514	1.578		4.227	
2,4-Dinitrotoluene	0.272	0.393		44.485	
Diethylphthalate	1.227	1.266		3.178	
4-Chlorophenyl-phenylether	0.611	0.630		3.11	
Fluorene	1.203	1.272		5.736	
4-Nitroaniline	0.235	0.323		37.447	
4,6-Dinitro-2-methylphenol	0.063	0.105		66.667	
n-Nitrosodiphenylamine	0.597	0.607		1.675	20.0
Azobenzene	1.182	1.232		4.23	
2,4,6-Tribromophenol	0.192	0.225		17.188	
4-Bromophenyl-phenylether	0.228	0.229		0.439	
Hexachlorobenzene	0.265	0.264		-0.377	
Atrazine	0.192	0.194		1.042	
Pentachlorophenol	0.142	0.173		21.831	20.0
Phenanthrene	0.963	0.991		2.908	
Anthracene	0.960	1.001		4.271	
Carbazole	0.878	0.938		6.834	
Di-n-butylphthalate	1.032	1.055		2.229	
Fluoranthene	1.039	1.087		4.62	20.0
Benzidine	0.206	0.492		138.835	
Pyrene	1.809	1.736		-4.035	
Terphenyl-d14	1.337	1.256		-6.058	
Butylbenzylphthalate	0.597	0.633		6.03	
3,3-Dichlorobenzidine	0.320	0.407		27.187	
Benzo(a)anthracene	1.262	1.282		1.585	
Chrysene	1.211	1.236		2.064	
Bis(2-ethylhexyl)phthalate	0.870	0.841		-3.333	
Di-n-octyl phthalate	1.198	1.218		1.669	20.0
Benzo(b)fluoranthene	1.257	1.292		2.784	
Benzo(k)fluoranthene	1.199	1.142		-4.754	

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Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF061124 SAS No.: BF061124 SDG No.: BF061124

Instrument ID: BNA_F Calibration Date/Time: 6/11/2024 1:10:26

Lab File ID: BF138183.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	0.952	1.055		10.819	20.0
Indeno(1,2,3-cd)pyrene	0.940	1.408		49.787	
Dibenzo(a,h)anthracene	0.748	1.160		55.08	
Benzo(g,h,i)perylene	0.785	1.183		50.701	
1,2,4,5-Tetrachlorobenzene	0.565	0.585		3.54	
1,4-Dioxane	0.538	0.571		6.134	20.0
2,3,4,6-Tetrachlorophenol	0.298	0.347		16.443	
1-Methylnaphthalene	0.639	0.657		2.817	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	6/8/2024 12:00:00 AM
Project:		Date Received:	6/8/2024 12:00:00 AM
Client Sample ID:	PB161404BL	SDG No.:	BF061124
Lab Sample ID:	PB161404BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 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
BF138184.D	1	6/8/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161404

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

Report of Analysis

Client:		Date Collected:	6/8/2024 12:00:00 AM
Project:		Date Received:	6/8/2024 12:00:00 AM
Client Sample ID:	PB161404BL	SDG No.:	BF061124
Lab Sample ID:	PB161404BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 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
BF138184.D	1	6/8/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161404

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	71.4	U	71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74	U	74	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
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	169.2	U	169.2	130	340	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

Report of Analysis

Client:		Date Collected:	6/8/2024 12:00:00 AM
Project:		Date Received:	6/8/2024 12:00:00 AM
Client Sample ID:	PB161404BL	SDG No.:	BF061124
Lab Sample ID:	PB161404BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 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
BF138184.D	1	6/8/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161404

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	74.7	U	74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.1	U	83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	117.085		18-112		78	SPK: -150
13127-88-3	Phenol-d6	114.244		15-107		76	SPK: -150
4165-60-0	Nitrobenzene-d5	90.572		18-107		91	SPK: -100
321-60-8	2-Fluorobiphenyl	79.308		20-109		79	SPK: -100

Report of Analysis

Client:		Date Collected:	6/8/2024 12:00:00 AM
Project:		Date Received:	6/8/2024 12:00:00 AM
Client Sample ID:	PB161404BL	SDG No.:	BF061124
Lab Sample ID:	PB161404BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02 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
BF138184.D	1	6/8/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161404

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	126.177		10-110		84	SPK: -150
1718-51-0	Terphenyl-d14	53.437		14-112		53	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	419033	6.898				
1146-65-2	Naphthalene-d8	1625610	8.175				
15067-26-2	Acenaphthene-d10	902246	9.933				
1517-22-2	Phenanthrene-d10	1684550	11.421				
1719-03-5	Chrysene-d12	1419183	14.057				
1520-96-3	Perylene-d12	1473697	15.539				

Report of Analysis

Client:		Date Collected:	6/8/2024 12:00:00 AM
Project:		Date Received:	6/8/2024 12:00:00 AM
Client Sample ID:	PB161404BS	SDG No.:	BF061124
Lab Sample ID:	PB161404BS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF138185.D	1	6/8/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161404

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1400		86.7	270	330	ug/Kg
110-86-1	Pyridine	1200		79.8	130	170	ug/Kg
100-52-7	Benzaldehyde	1500		180	270	330	ug/Kg
62-53-3	Aniline	950		96.8	130	170	ug/Kg
108-95-2	Phenol	1500		82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.4	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	1400		84.5	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	1400		85.9	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	1400		86.4	130	170	ug/Kg
100-51-6	Benzyl Alcohol	1600		82.9	270	330	ug/Kg
95-48-7	2-Methylphenol	1500		80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	130	170	ug/Kg
98-86-2	Acetophenone	1400		86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	1600		90.7	130	170	ug/Kg
78-59-1	Isophorone	1500		84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.4	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1400		85.3	130	170	ug/Kg
65-85-0	Benzoic acid	1800		240	270	330	ug/Kg
91-20-3	Naphthalene	1400		82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	740		82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1300		83.2	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	6/8/2024 12:00:00 AM
Project:		Date Received:	6/8/2024 12:00:00 AM
Client Sample ID:	PB161404BS	SDG No.:	BF061124
Lab Sample ID:	PB161404BS	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
BF138185.D	1	6/8/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161404

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1500		86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3900	E	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		71.3	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		73.9	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	1700		94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.6	130	170	ug/Kg
208-96-8	Acenaphthylene	1500		86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	1200		89.1	130	170	ug/Kg
83-32-9	Acenaphthene	1400		81	130	170	ug/Kg
Total PAH	Total PAH	25300		1323.5	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	3500	E	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	4000	E	120	270	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.3	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	3300		169.2	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	1500		80	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	130	170	ug/Kg
86-73-7	Fluorene	1400		85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	130	170	ug/Kg
103-33-3	Azobenzene	1500		79.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		84.9	130	170	ug/Kg
1912-24-9	Atrazine	1600		91.3	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	6/8/2024 12:00:00 AM
Project:		Date Received:	6/8/2024 12:00:00 AM
Client Sample ID:	PB161404BS	SDG No.:	BF061124
Lab Sample ID:	PB161404BS	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
BF138185.D	1	6/8/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161404

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	3200	E	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	1500		83.9	130	170	ug/Kg
120-12-7	Anthracene	1500		84.3	130	170	ug/Kg
86-74-8	Carbazole	1500		80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		84.2	130	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	130	170	ug/Kg
92-87-5	Benzidine	480		160	270	330	ug/Kg
129-00-0	Pyrene	1200		82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1500		96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1500		98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.6	130	170	ug/Kg
218-01-9	Chrysene	1500		79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		81	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2000		78	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2000		81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		80	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	1100		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.6	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	1400		83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	122.142		18-112		81	SPK: -150
13127-88-3	Phenol-d6	123.698		15-107		82	SPK: -150
4165-60-0	Nitrobenzene-d5	96.317		18-107		96	SPK: -100
321-60-8	2-Fluorobiphenyl	81.705		20-109		82	SPK: -100

Report of Analysis

Client:		Date Collected:	6/8/2024 12:00:00 AM
Project:		Date Received:	6/8/2024 12:00:00 AM
Client Sample ID:	PB161404BS	SDG No.:	BF061124
Lab Sample ID:	PB161404BS	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
BF138185.D	1	6/8/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161404

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	133.433		10-110		89	SPK: -150
1718-51-0	Terphenyl-d14	68.471		14-112		68	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	432075	6.898				
1146-65-2	Naphthalene-d8	1690654	8.181				
15067-26-2	Acenaphthene-d10	948474	9.939				
1517-22-2	Phenanthrene-d10	1695661	11.427				
1719-03-5	Chrysene-d12	1163718	14.068				
1520-96-3	Perylene-d12	887685	15.539				



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BF061124

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :							

Total Concentration:



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BF060524 SAS No.: BF060524 SDG No.: BF060524
Instrument ID: _____ Calibration Date(s): 6/5/2024 1: _____
Calibration Time(s): 11:15 _____

LAB FILE ID:		RRF2.5 = BF138117.D			RRF005 = BF138118.D		RRF010 = BF138119.D	
		RRF020 = BF138120.D			RRF040 = BF138121.D		RRF050 = BF138122.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.673	0.662	0.683	0.646	0.627	0.647	4.3
Pyridine		1.358	1.336	1.388	1.306	1.273	1.318	3.6
2-Fluorophenol		1.267	1.240	1.270	1.161	1.108	1.174	7.8
Benzaldehyde			1.040	0.956	0.767	0.676	0.791	21.2
Aniline		1.584	1.523	1.567	1.499	1.474	1.505	4.2
Phenol-d6		1.616	1.559	1.595	1.470	1.416	1.485	7.6
Phenol		1.638	1.577	1.626	1.517	1.469	1.525	6.5
bis(2-Chloroethyl)ether		1.340	1.287	1.289	1.213	1.163	1.223	7.1
2-Chlorophenol		1.352	1.298	1.361	1.269	1.233	1.270	6.4
1,2-Dichlorobenzene		1.545	1.473	1.497	1.371	1.293	1.375	10.5
1,3-Dichlorobenzene		1.603	1.525	1.560	1.447	1.377	1.455	8.1
1,4-Dichlorobenzene		1.626	1.555	1.569	1.451	1.383	1.465	8.7
Benzyl Alcohol		1.119	1.084	1.128	1.062	1.023	1.051	7.4
2-Methylphenol		1.083	1.038	1.071	1.015	1.001	1.028	3.9
2,2-oxybis(1-Chloropropane)		1.983	1.862	1.917	1.774	1.710	1.795	7.5
Acetophenone		0.530	0.500	0.504	0.456	0.426	0.460	11.6
3+4-Methylphenols		1.413	1.355	1.409	1.298	1.214	1.279	10.5
n-Nitroso-di-n-propylamine	0.959	1.041	0.993	1.006	0.925	0.895	0.947	6.8
Nitrobenzene-d5		0.219	0.251	0.304	0.315	0.320	0.294	14.4
Hexachloroethane		0.508	0.499	0.527	0.502	0.496	0.500	4.0
Nitrobenzene		0.263	0.292	0.338	0.335	0.336	0.320	9.6
Isophorone		0.703	0.658	0.678	0.637	0.617	0.648	5.2
2-Nitrophenol		0.047	0.058	0.086	0.116	0.140	0.108	41.9
2,4-Dimethylphenol		0.223	0.220	0.232	0.226	0.224	0.225	2.1
bis(2-Chloroethoxy)methane		0.426	0.405	0.421	0.391	0.378	0.394	6.5
2,4-Dichlorophenol		0.251	0.260	0.285	0.280	0.272	0.271	4.6
1,2,4-Trichlorobenzene		0.348	0.340	0.351	0.325	0.311	0.327	6.5
Benzoic acid			0.056	0.097	0.137	0.179	0.148	42.5
Naphthalene		1.127	1.063	1.072	0.957	0.883	0.967	13.2
4-Chloroaniline		0.400	0.375	0.390	0.357	0.346	0.364	7.1
Hexachlorobutadiene		0.207	0.200	0.205	0.193	0.183	0.192	6.9
Caprolactam		0.086	0.085	0.093	0.091	0.089	0.091	4.5
4-Chloro-3-methylphenol		0.275	0.271	0.293	0.281	0.274	0.278	3.5
2-Methylnaphthalene		0.743	0.708	0.715	0.647	0.606	0.652	11.7
Hexachlorocyclopentadiene		0.143	0.160	0.189	0.199	0.206	0.186	13.7
2,4,6-Trichlorophenol		0.291	0.308	0.355	0.359	0.363	0.343	8.9

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.: BF060524

SAS No.: BF060524

SDG No.: BF060524

Instrument ID: _____

Calibration Date(s): 6/5/2024 1: _____

Calibration Time(s): 11:15 _____

LAB FILE ID:		RRF2.5 = BF138117.D			RRF005 = BF138118.D		RRF010 = BF138119.D	
		RRF020 = BF138120.D			RRF040 = BF138121.D		RRF050 = BF138122.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl			1.444	1.380	1.124	1.033	1.144	19.7
2,4,5-Trichlorophenol		0.327	0.357	0.393	0.394	0.390	0.378	7.3
1,1-Biphenyl		1.603	1.556	1.566	1.389	1.296	1.405	12.8
2-Chloronaphthalene		1.245	1.199	1.216	1.115	1.050	1.120	9.6
2-Nitroaniline		0.114	0.150	0.215	0.258	0.280	0.229	31.5
Dimethylphthalate		1.389	1.329	1.359	1.247	1.167	1.257	8.7
Acenaphthylene		1.769	1.697	1.742	1.576	1.485	1.584	10.4
2,6-Dinitrotoluene		0.131	0.176	0.240	0.262	0.272	0.235	25.1
3-Nitroaniline		0.149	0.185	0.247	0.263	0.272	0.240	21.9
Acenaphthene		1.175	1.145	1.170	1.057	1.016	1.071	9.2
2,4-Dinitrophenol		0.019	0.025	0.038	0.058	0.080	0.060	56.8
4-Nitrophenol			0.125	0.180	0.202	0.206	0.191	18.6
Dibenzofuran		1.726	1.663	1.664	1.508	1.394	1.514	12.0
2,4-Dinitrotoluene		0.133	0.179	0.268	0.315	0.329	0.272	31.2
Diethylphthalate		1.363	1.324	1.348	1.238	1.135	1.227	10.7
4-Chlorophenyl-phenylether		0.713	0.686	0.689	0.607	0.556	0.611	14.6
Fluorene		1.422	1.371	1.377	1.205	1.068	1.203	16.5
4-Nitroaniline		0.156	0.194	0.248	0.264	0.255	0.235	18.6
4,6-Dinitro-2-methylphenol			0.024	0.040	0.061	0.077	0.063	42.8
n-Nitrosodiphenylamine		0.653	0.626	0.629	0.595	0.575	0.597	7.0
Azobenzene		1.332	1.285	1.298	1.183	1.085	1.182	11.3
2,4,6-Tribromophenol		0.167	0.185	0.210	0.209	0.196	0.192	8.7
4-Bromophenyl-phenylether		0.237	0.231	0.236	0.228	0.225	0.228	3.5
Hexachlorobenzene		0.285	0.273	0.276	0.261	0.258	0.265	5.3
Atrazine		0.207	0.205	0.202	0.191	0.184	0.192	6.8
Pentachlorophenol		0.094	0.113	0.142	0.156	0.161	0.142	19.7
Phenanthrene		1.114	1.071	1.059	0.956	0.889	0.963	12.8
Anthracene		1.095	1.058	1.060	0.945	0.887	0.960	12.0
Carbazole		0.987	0.963	0.966	0.869	0.817	0.878	11.1
Di-n-butylphthalate		1.165	1.158	1.167	1.035	0.935	1.032	13.3
Fluoranthene		1.206	1.194	1.190	1.032	0.934	1.039	15.9
Benzidine		0.089	0.136	0.265	0.278	0.241	0.206	51.0
Pyrene		1.761	1.691	1.828	1.830	1.859	1.809	4.6
Terphenyl-d14		1.464	1.413	1.439	1.296	1.266	1.337	8.1
Butylbenzylphthalate		0.416	0.482	0.602	0.652	0.666	0.597	18.0
3,3-Dichlorobenzidine		0.303	0.312	0.339	0.322	0.315	0.320	5.3

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.: BF060524 SAS No.: BF060524 SDG No.: BF060524
Instrument ID: _____ Calibration Date(s): 6/5/2024 1: _____
Calibration Time(s): 11:15 _____

LAB FILE ID:		RRF2.5 = BF138117.D			RRF005 = BF138118.D		RRF010 = BF138119.D	
		RRF020 = BF138120.D			RRF040 = BF138121.D		RRF050 = BF138122.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.369	1.332	1.366	1.240	1.190	1.262	7.8
Chrysene		1.252	1.251	1.273	1.223	1.142	1.211	4.6
Bis(2-ethylhexyl)phthalate		0.790	0.843	0.932	0.916	0.889	0.870	6.1
Di-n-octyl phthalate		1.017	1.125	1.257	1.235	1.250	1.198	7.8
Benzo(b)fluoranthene		1.331	1.357	1.375	1.214	1.167	1.257	7.7
Benzo(k)fluoranthene		1.255	1.285	1.344	1.190	1.165	1.199	8.5
Benzo(a)pyrene		0.930	0.930	0.976	0.972	0.940	0.952	2.4
Indeno(1,2,3-cd)pyrene		0.579	0.679	0.909	1.076	1.058	0.940	24.4
Dibenzo(a,h)anthracene		0.455	0.531	0.723	0.860	0.842	0.748	25.1
Benzo(g,h,i)perylene		0.471	0.562	0.773	0.917	0.890	0.785	25.0
1,2,4,5-Tetrachlorobenzene		0.599	0.584	0.610	0.568	0.542	0.565	6.7
1,4-Dioxane		0.579	0.551	0.564	0.527	0.512	0.538	5.2
2,3,4,6-Tetrachlorophenol		0.252	0.273	0.310	0.320	0.313	0.298	8.9
1-Methylnaphthalene		0.730	0.692	0.701	0.639	0.589	0.639	11.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF061124 SAS No.: BF061124 SDG NO.: BF061124

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 11 2024 12:00AM

Lab File ID: BF138121.D Time Analyzed: 13:07

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	428297	6.91	1.63531e+01	8.19	922358	9.95
UPPER LIMIT	856594	7.41	3270620	8.692	1844716	10.445
LOWER LIMIT	214148.5	6.41	817655	7.692	461179	9.445
EPA SAMPLE NO.						
01 PB161404BL	419033	6.90	1.62561e	8.18	902246	9.93
02 PB161404BS	432075	6.90	1.69065e	8.18	948474	9.94

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.: BF061124 SAS No.: BF061124 SDG NO.: BF061124

EPA Sample No.: SSTDCCC040 Date Analyzed: Jun 11 2024 12:00AM

Lab File ID: BF138183.D Time Analyzed: 13:07

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	322972	6.898	1.24567e+01	8.18	688028	9.94
UPPER LIMIT	645944	7.398	2491340	8.68	1376056	10.439
LOWER LIMIT	161486	6.398	622835	7.68	344014	9.439
EPA SAMPLE NO.						
01 PB161404BL	419033	6.90	1.62561e	8.18	902246	9.93
02 PB161404BS	432075	6.90	1.69065e	8.18	948474	9.94

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.: BF061124 SAS No.: BF061124 SDG NO.: BF061124

EPA Sample No.: SSTDICCC040 Date Analyzed: Jun 11 2024 12:00AM

Lab File ID: BF138121.D Time Analyzed: 13:07

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	1.65019e+04	11.433	942910	14.068	707214	15.545
UPPER LIMIT	3300380	11.933	1885820	14.568	1414428	16.045
LOWER LIMIT	825095	10.933	471455	13.568	353607	15.045
EPA SAMPLE NO.						
01 PB161404BL	1.68455	11.42	1.41918e+	14.06	1.4737e+0 *	15.54
02 PB161404BS	1.69566	11.43	1.16372e+	14.07	887685	15.54

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.: BF061124 SAS No.: BF061124 SDG NO.: BF061124

EPA Sample No.: SSTDCCC040 Date Analyzed: Jun 11 2024 12:00AM

Lab File ID: BF138183.D Time Analyzed: 13:07

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	1.2522e+00	11.421	799334	14.062	714941	15.539
UPPER LIMIT	2504400	11.921	1598668	14.562	1429882	16.039
LOWER LIMIT	626100	10.921	399667	13.562	357470.5	15.039
EPA SAMPLE NO.						
01 PB161404BL	1.68455	11.42	1.41918e+	14.06	1.4737e+0 *	15.54
02 PB161404BS	1.69566	11.43	1.16372e+	14.07	887685	15.54

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.: **BF061124**

Client:

Analytical Method: **8270E**

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB161404BS	n-Nitrosodimethylamine	1700	1400	ug/Kg	82				57	103	
	Pyridine	1700	1200	ug/Kg	71				28	98	
	Benzaldehyde	1700	1500	ug/Kg	88				10	147	
	Aniline	1700	950	ug/Kg	56				38	100	
	Phenol	1700	1500	ug/Kg	88				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1600	ug/Kg	94				65	112	
	1,2-Dichlorobenzene	1700	1400	ug/Kg	82				51	102	
	1,3-Dichlorobenzene	1700	1400	ug/Kg	82				52	99	
	1,4-Dichlorobenzene	1700	1400	ug/Kg	82				52	100	
	Benzyl Alcohol	1700	1600	ug/Kg	94				42	116	
	2-Methylphenol	1700	1500	ug/Kg	88				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				51	100	
	Acetophenone	1700	1400	ug/Kg	82				55	104	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1600	ug/Kg	94				57	101	
	Isophorone	1700	1500	ug/Kg	88				59	99	
	2-Nitrophenol	1700	1800	ug/Kg	106				61	111	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				67	119	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				53	105	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				62	107	
	1,2,4-Trichlorobenzene	1700	1400	ug/Kg	82				44	110	
	Benzoic acid	1700	1800	ug/Kg	106				10	140	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	740	ug/Kg	44				16	100	
	Hexachlorobutadiene	1700	1300	ug/Kg	76				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	3900	ug/Kg	118				45	134	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				59	102	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1700	ug/Kg	100				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				61	104	
	3-Nitroaniline	1700	1200	ug/Kg	71				28	100	
	Acenaphthene	1700	1400	ug/Kg	82				57	104	
	Total PAH	27200	25300	ug/Kg	93				57	104	
	2,4-Dinitrophenol	3300	3500	ug/Kg	106				37	128	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **BF061124**

Client:

Analytical Method: **8270E**

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB161404BS	4-Nitrophenol	3300	4000	ug/Kg	121		*		48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				60	106	
	2,4-Dinitrotoluene/2,6-Dinitroto	3400	3300	ug/Kg	97				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1800	ug/Kg	106		*		64	103	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118		*		76	113	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				56	107	
	Azobenzene	1700	1500	ug/Kg	88				54	103	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				55	99	
	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1600	ug/Kg	94				67	113	
	Pentachlorophenol	3300	3200	ug/Kg	97				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Benzidine	3300	480	ug/Kg	15				10	98	
	Pyrene	1700	1200	ug/Kg	71				59	103	
	Butylbenzylphthalate	1700	1500	ug/Kg	88				55	103	
	3,3-Dichlorobenzidine	1700	1500	ug/Kg	88				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1400	ug/Kg	82				63	111	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				70	108	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1800	ug/Kg	106		*		63	103	
	Indeno(1,2,3-cd)pyrene	1700	2000	ug/Kg	118		*		63	101	
	Dibenz(a,h)anthracene	1700	2000	ug/Kg	118		*		61	112	
	Benzo(g,h,i)perylene	1700	1900	ug/Kg	112		*		70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				59	108	
	1-Methylnaphthalene	1700	1400	ug/Kg	82				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB161404BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF061124

SAS No.: BF061124 SDG NO.: BF061124

Lab File ID: BF138184.D

Lab Sample ID: PB161404BL

Instrument ID: BNA_F

Date Extracted: 06/08/2024

Matrix: (soil/water) Solid

Date Analyzed: 06/11/2024

Level: (low/med) LOW

Time Analyzed: 13:07

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB161404BS	PB161404BS	BF138185.D	06/11/2024

COMMENTS: _____



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

Surrogate Summary

SW-846

SDG No.: BF061124

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB161404BL	PB161404BL	BF138184.D	2-Fluorophenol	150	117.09	78		18	112
			Phenol-d6	150	114.24	76		15	107
			Nitrobenzene-d5	100	90.57	91		18	107
			2-Fluorobiphenyl	100	79.31	79		20	109
			2,4,6-Tribromophenol	150	126.18	84		10	110
			Terphenyl-d14	100	53.44	53		14	112
PB161404BS	PB161404BS	BF138185.D	2-Fluorophenol	150	122.14	81		18	112
			Phenol-d6	150	123.70	82		15	107
			Nitrobenzene-d5	100	96.32	96		18	107
			2-Fluorobiphenyl	100	81.71	82		20	109
			2,4,6-Tribromophenol	150	133.43	89		10	110
			Terphenyl-d14	100	68.47	68		14	112

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BF061124

Lab Code: CHEM

SAS No.: BF061124

SDG NO.: BF061124

Lab File ID: BF138182.D

DFTPP Injection Date: 06/11/2024

Instrument ID: BNA_F

DFTPP Injection Time: 09:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.8
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	30.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	42.8
197	Less than 2.0% of mass 198	0.4
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	30
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	97.8
443	15.0 - 24.0% of mass 442	19.4 (19.9) 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
SSTDCCC040	SSTDCCC040	BF138183.D	06/11/2024	10:26
PB161404BL	PB161404BL	BF138184.D	06/11/2024	13:07
PB161404BS	PB161404BS	BF138185.D	06/11/2024	13:36