

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF050624 SAS No.: BF050624 SDG No.: BF050624

Instrument ID: BNA_F Calibration Date/Time: 5/6/2024 12:12:18

Lab File ID: BF137837.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	0.586	0.571		-2.56	
Pyridine	1.302	1.153		-11.444	
2-Fluorophenol	1.195	1.539		28.787	
Benzaldehyde	0.816	0.752		-7.843	
Aniline	1.502	1.343		-10.586	
Phenol-d6	1.515	1.974		30.297	
Phenol	1.553	1.444		-7.019	20.0
bis(2-Chloroethyl) ether	1.216	1.111		-8.635	
2-Chlorophenol	1.302	1.250		-3.994	
1,2-Dichlorobenzene	1.387	1.360		-1.947	
1,3-Dichlorobenzene	1.468	1.456		-0.817	
1,4-Dichlorobenzene	1.473	1.465		-0.543	20.0
Benzyl Alcohol	1.048	1.065		1.622	
2-Methylphenol	1.050	1.028		-2.095	
2,2-oxybis(1-Chloropropane)	1.709	1.420		-16.91	
Acetophenone	0.450	0.440		-2.222	
3+4-Methylphenols	1.382	1.320		-4.486	
n-Nitroso-di-n-propylamine	0.905	0.821	0.050	-9.282	
Nitrobenzene-d5	0.344	0.345		0.291	
Hexachloroethane	0.498	0.510		2.41	
Nitrobenzene	0.355	0.350		-1.408	
Isophorone	0.621	0.603		-2.899	
2-Nitrophenol	0.161	0.175		8.696	20.0
2,4-Dimethylphenol	0.231	0.221		-4.329	
bis(2-Chloroethoxy) methane	0.376	0.353		-6.117	
2,4-Dichlorophenol	0.280	0.284		1.429	20.0
1,2,4-Trichlorobenzene	0.305	0.307		0.656	
Benzoic acid	0.200	0.208		4.0	
Naphthalene	0.994	0.991		-0.302	
4-Chloroaniline	0.369	0.344		-6.775	
Hexachlorobutadiene	0.187	0.200		6.952	20.0
Caprolactam	0.089	0.086		-3.371	
4-Chloro-3-methylphenol	0.292	0.296		1.37	20.0
2-Methylnaphthalene	0.643	0.635		-1.244	
Hexachlorocyclopentadiene	0.215	0.226	0.050	5.116	
2,4,6-Trichlorophenol	0.361	0.360		-0.277	20.0
2-Fluorobiphenyl	1.233	1.232		-0.081	
2,4,5-Trichlorophenol	0.398	0.391		-1.759	
1,1-Biphenyl	1.373	1.356		-1.238	

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Lab File ID: BF137837.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	1.108	1.103		-0.451	
2-Nitroaniline	0.301	0.303		0.664	
Dimethylphthalate	1.263	1.260		-0.238	
Acenaphthylene	1.603	1.589		-0.873	
2,6-Dinitrotoluene	0.289	0.296		2.422	
3-Nitroaniline	0.302	0.297		-1.656	
Acenaphthene	1.063	1.048		-1.411	20.0
2,4-Dinitrophenol	0.142	0.148	0.050	4.225	
4-Nitrophenol	0.250	0.237	0.050	-5.2	
Dibenzofuran	1.546	1.517		-1.876	
2,4-Dinitrotoluene	0.377	0.391		3.714	
Diethylphthalate	1.199	1.209		0.834	
4-Chlorophenyl-phenylether	0.606	0.598		-1.32	
Fluorene	1.231	1.199		-2.6	
4-Nitroaniline	0.306	0.295		-3.595	
4,6-Dinitro-2-methylphenol	0.115	0.120		4.348	
n-Nitrosodiphenylamine	0.599	0.592		-1.169	20.0
Azobenzene	1.159	1.099		-5.177	
2,4,6-Tribromophenol	0.204	0.286		40.196	
4-Bromophenyl-phenylether	0.214	0.214		0.0	
Hexachlorobenzene	0.234	0.234		0.0	
Atrazine	0.183	0.163		-10.929	
Pentachlorophenol	0.161	0.155		-3.727	20.0
Phenanthrene	0.975	0.947		-2.872	
Anthracene	0.970	0.951		-1.959	
Carbazole	0.935	0.885		-5.348	
Di-n-butylphthalate	1.020	1.016		-0.392	
Fluoranthene	1.066	0.967		-9.287	20.0
Benzidine	0.463	0.222		-52.052	
Pyrene	1.586	1.823		14.943	
Terphenyl-d14	1.193	1.386		16.178	
Butylbenzylphthalate	0.503	0.570		13.32	
3,3-Dichlorobenzidine	0.383	0.365		-4.7	
Benzo(a)anthracene	1.279	1.248		-2.424	
Chrysene	1.198	1.209		0.918	
Bis(2-ethylhexyl)phthalate	0.634	0.706		11.356	
Di-n-octyl phthalate	0.853	1.042		22.157	20.0
Benzo(b)fluoranthene	1.244	1.136		-8.682	
Benzo(k)fluoranthene	1.203	1.071		-10.973	

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Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF050624 SAS No.: BF050624 SDG No.: BF050624

Instrument ID: BNA_F Calibration Date/Time: 5/6/2024 12:12:18

Lab File ID: BF137837.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	1.015	0.990		-2.463	20.0
Indeno(1,2,3-cd)pyrene	1.137	1.388		22.076	
Dibenzo(a,h)anthracene	0.926	1.143		23.434	
Benzo(g,h,i)perylene	0.970	1.185		22.165	
1,2,4,5-Tetrachlorobenzene	0.530	0.526		-0.755	
1,4-Dioxane	0.538	0.580		7.807	20.0
2,3,4,6-Tetrachlorophenol	0.323	0.312		-3.406	
1-Methylnaphthalene	0.633	0.613		-3.16	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	5/2/2024 12:00:00 AM
Project:		Date Received:	5/2/2024 12:00:00 AM
Client Sample ID:	PB160665BL	SDG No.:	BF050624
Lab Sample ID:	PB160665BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01	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
BF137838.D	1	5/2/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160665

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	86.8	U	86.8	270	330	ug/Kg
110-86-1	Pyridine	79.9	U	79.9	130	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	270	330	ug/Kg
62-53-3	Aniline	96.9	U	96.9	130	170	ug/Kg
108-95-2	Phenol	82.9	U	82.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.6	U	84.6	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	86	U	86	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.5	U	86.5	130	170	ug/Kg
100-51-6	Benzyl Alcohol	83	U	83	270	330	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	130	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80	80	ug/Kg
67-72-1	Hexachloroethane	83	U	83	130	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	130	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	130	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.4	U	85.4	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	270	330	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	130	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	5/2/2024 12:00:00 AM
Project:		Date Received:	5/2/2024 12:00:00 AM
Client Sample ID:	PB160665BL	SDG No.:	BF050624
Lab Sample ID:	PB160665BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137838.D	1	5/2/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160665

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	86.8	U	86.8	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	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	87.4	U	87.4	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	95	U	95	130	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	130	170	ug/Kg
208-96-8	Acenaphthylene	86.5	U	86.5	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	130	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	130	170	ug/Kg
Total PAH	Total PAH	1325.1	U	1325.1	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	84.4	U	84.4	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	169.4	U	169.4	130	340	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	130	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	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	81.6	U	81.6	130	170	ug/Kg
103-33-3	Azobenzene	79.6	U	79.6	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	130	170	ug/Kg
118-74-1	Hexachlorobenzene	85	U	85	130	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	5/2/2024 12:00:00 AM
Project:		Date Received:	5/2/2024 12:00:00 AM
Client Sample ID:	PB160665BL	SDG No.:	BF050624
Lab Sample ID:	PB160665BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137838.D	1	5/2/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160665

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	77.3	U	77.3	270	330	ug/Kg
85-01-8	Phenanthrene	84	U	84	130	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	130	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	130	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	130	170	ug/Kg
92-87-5	Benzidine	160	U	160	270	330	ug/Kg
129-00-0	Pyrene	83	U	83	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	130	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91	U	91	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	93	U	93	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	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	83.2	U	83.2	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	128.238		18-112		85	SPK: -150
13127-88-3	Phenol-d6	124.111		15-107		83	SPK: -150
4165-60-0	Nitrobenzene-d5	84.589		18-107		85	SPK: -100
321-60-8	2-Fluorobiphenyl	87.489		20-109		87	SPK: -100

Report of Analysis

Client:		Date Collected:	5/2/2024 12:00:00 AM
Project:		Date Received:	5/2/2024 12:00:00 AM
Client Sample ID:	PB160665BL	SDG No.:	BF050624
Lab Sample ID:	PB160665BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137838.D	1	5/2/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160665

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	133.145		10-110		89	SPK: -150
1718-51-0	Terphenyl-d14	82.063		14-112		82	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	143783	7.046				
1146-65-2	Naphthalene-d8	577843	8.334				
15067-26-2	Acenaphthene-d10	330397	10.092				
1517-22-2	Phenanthrene-d10	604921	11.587				
1719-03-5	Chrysene-d12	461774	14.239				
1520-96-3	Perylene-d12	372247	15.804				
TENTATIVE IDENTIFIED COMPOUNDS							
000077-76-9	Propane, 2,2-dimethoxy-	240	J			2.146	
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	130	J			18.274	

Report of Analysis

Client:		Date Collected:	5/6/2024 12:00:00 AM
Project:		Date Received:	5/6/2024 12:00:00 AM
Client Sample ID:	PB160725BL	SDG No.:	BF050624
Lab Sample ID:	PB160725BL	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
BF137839.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

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:	5/6/2024 12:00:00 AM
Project:		Date Received:	5/6/2024 12:00:00 AM
Client Sample ID:	PB160725BL	SDG No.:	BF050624
Lab Sample ID:	PB160725BL	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
BF137839.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

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
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:	5/6/2024 12:00:00 AM
Project:		Date Received:	5/6/2024 12:00:00 AM
Client Sample ID:	PB160725BL	SDG No.:	BF050624
Lab Sample ID:	PB160725BL	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
BF137839.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

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	132.689		18-112		88	SPK: -150
13127-88-3	Phenol-d6	129.695		15-107		86	SPK: -150
4165-60-0	Nitrobenzene-d5	89.442		18-107		89	SPK: -100
321-60-8	2-Fluorobiphenyl	90.929		20-109		91	SPK: -100

Report of Analysis

Client:		Date Collected:	5/6/2024 12:00:00 AM
Project:		Date Received:	5/6/2024 12:00:00 AM
Client Sample ID:	PB160725BL	SDG No.:	BF050624
Lab Sample ID:	PB160725BL	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
BF137839.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	141.621		10-110		94	SPK: -150
1718-51-0	Terphenyl-d14	83.875		14-112		84	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	143375	7.045				
1146-65-2	Naphthalene-d8	563828	8.333				
15067-26-2	Acenaphthene-d10	328352	10.092				
1517-22-2	Phenanthrene-d10	599798	11.586				
1719-03-5	Chrysene-d12	476282	14.239				
1520-96-3	Perylene-d12	420023	15.809				
TENTATIVE IDENTIFIED COMPOUNDS							
	unknown2.152	580	J			2.152	
000994-05-8	Butane, 2-methoxy-2-methyl-	120	J			2.516	

Report of Analysis

Client:		Date Collected:	5/6/2024 12:00:00 AM
Project:		Date Received:	5/6/2024 12:00:00 AM
Client Sample ID:	PB160725BS	SDG No.:	BF050624
Lab Sample ID:	PB160725BS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01	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
BF137840.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	1400		86.8	270	330	ug/Kg
110-86-1	Pyridine	1100		79.9	130	170	ug/Kg
100-52-7	Benzaldehyde	1100		180	270	330	ug/Kg
62-53-3	Aniline	1100		96.9	130	170	ug/Kg
108-95-2	Phenol	1400		82.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.5	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	1400		84.6	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	1400		86	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	1400		86.5	130	170	ug/Kg
100-51-6	Benzyl Alcohol	1500		83	270	330	ug/Kg
95-48-7	2-Methylphenol	1500		80.6	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		90.9	130	170	ug/Kg
98-86-2	Acetophenone	1500		86.9	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.8	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		40.3	80	80	ug/Kg
67-72-1	Hexachloroethane	1500		83	130	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	130	170	ug/Kg
78-59-1	Isophorone	1400		84.6	130	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.5	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		93.2	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		85.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.5	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1400		85.4	130	170	ug/Kg
65-85-0	Benzoic acid	1500		240	270	330	ug/Kg
91-20-3	Naphthalene	1400		82.6	130	170	ug/Kg
106-47-8	4-Chloroaniline	540		82.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.3	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	5/6/2024 12:00:00 AM
Project:		Date Received:	5/6/2024 12:00:00 AM
Client Sample ID:	PB160725BS	SDG No.:	BF050624
Lab Sample ID:	PB160725BS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137840.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	1500		86.8	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.5	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.5	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1400		74	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		87.4	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	1500		95	130	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.7	130	170	ug/Kg
208-96-8	Acenaphthylene	1500		86.5	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		83.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	880		89.2	130	170	ug/Kg
83-32-9	Acenaphthene	1500		81.1	130	170	ug/Kg
Total PAH	Total PAH	23900		1325.1	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	2800	E	120	270	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.4	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		86.2	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	2900		169.4	130	340	ug/Kg
84-66-2	Diethylphthalate	1500		80.1	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.6	130	170	ug/Kg
86-73-7	Fluorene	1400		85.5	130	170	ug/Kg
100-01-6	4-Nitroaniline	1300		110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.6	130	170	ug/Kg
103-33-3	Azobenzene	1400		79.6	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.9	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		85	130	170	ug/Kg
1912-24-9	Atrazine	1600		91.4	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	5/6/2024 12:00:00 AM
Project:		Date Received:	5/6/2024 12:00:00 AM
Client Sample ID:	PB160725BS	SDG No.:	BF050624
Lab Sample ID:	PB160725BS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137840.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	2600		77.3	270	330	ug/Kg
85-01-8	Phenanthrene	1400		84	130	170	ug/Kg
120-12-7	Anthracene	1500		84.4	130	170	ug/Kg
86-74-8	Carbazole	1400		80.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		84.3	130	170	ug/Kg
206-44-0	Fluoranthene	1400		81.7	130	170	ug/Kg
92-87-5	Benzidine	980		160	270	330	ug/Kg
129-00-0	Pyrene	1600		83	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.8	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.6	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.7	130	170	ug/Kg
218-01-9	Chrysene	1500		79.5	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		91	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		81.1	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		82.6	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		93	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.1	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.8	130	170	ug/Kg
123-91-1	1,4-Dioxane	1100		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	1400		83.2	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	123.205		18-112		82	SPK: -150
13127-88-3	Phenol-d6	120.255		15-107		80	SPK: -150
4165-60-0	Nitrobenzene-d5	83.172		18-107		83	SPK: -100
321-60-8	2-Fluorobiphenyl	82.847		20-109		83	SPK: -100

Report of Analysis

Client:		Date Collected:	5/6/2024 12:00:00 AM
Project:		Date Received:	5/6/2024 12:00:00 AM
Client Sample ID:	PB160725BS	SDG No.:	BF050624
Lab Sample ID:	PB160725BS	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.01 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
BF137840.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	130.152		10-110		87	SPK: -150
1718-51-0	Terphenyl-d14	93.238		14-112		93	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	140675	7.051				
1146-65-2	Naphthalene-d8	568198	8.334				
15067-26-2	Acenaphthene-d10	332757	10.098				
1517-22-2	Phenanthrene-d10	587725	11.592				
1719-03-5	Chrysene-d12	352996	14.245				
1520-96-3	Perylene-d12	298795	15.81				

Report of Analysis

Client:		Date Collected:	4/30/2024 12:00:00 AM
Project:		Date Received:	4/30/2024 12:00:00 AM
Client Sample ID:	PE-4(4.0-4.5)	SDG No.:	BF050624
Lab Sample ID:	P2327-04	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	11.5
Sample Wt/Vol:	30.04 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
BF137841.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	97.9	U	97.9	300	370	ug/Kg
110-86-1	Pyridine	90.2	U	90.2	150	190	ug/Kg
100-52-7	Benzaldehyde	210	U	210	300	370	ug/Kg
62-53-3	Aniline	110	U	110	150	190	ug/Kg
108-95-2	Phenol	93.5	U	93.5	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.5	U	94.5	150	190	ug/Kg
95-57-8	2-Chlorophenol	94.2	U	94.2	150	190	ug/Kg
95-50-1	1,2-Dichlorobenzene	95.5	U	95.5	150	190	ug/Kg
541-73-1	1,3-Dichlorobenzene	97	U	97	150	190	ug/Kg
106-46-7	1,4-Dichlorobenzene	97.6	U	97.6	150	190	ug/Kg
100-51-6	Benzyl Alcohol	93.7	U	93.7	300	370	ug/Kg
95-48-7	2-Methylphenol	91	U	91	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	150	190	ug/Kg
98-86-2	Acetophenone	98.1	U	98.1	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	90	U	90	300	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.5	U	45.5	90.3	90.3	ug/Kg
67-72-1	Hexachloroethane	93.7	U	93.7	150	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	150	190	ug/Kg
78-59-1	Isophorone	95.5	U	95.5	150	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	96.8	U	96.8	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	85.2	U	85.2	150	190	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	96.4	U	96.4	150	190	ug/Kg
65-85-0	Benzoic acid	270	U	270	300	370	ug/Kg
91-20-3	Naphthalene	93.2	U	93.2	150	190	ug/Kg
106-47-8	4-Chloroaniline	93.2	U	93.2	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	94	U	94	150	190	ug/Kg

Report of Analysis

Client:		Date Collected:	4/30/2024 12:00:00 AM
Project:		Date Received:	4/30/2024 12:00:00 AM
Client Sample ID:	PE-4(4.0-4.5)	SDG No.:	BF050624
Lab Sample ID:	P2327-04	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	11.5
Sample Wt/Vol:	30.04 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
BF137841.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	97.9	U	97.9	300	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.5	U	87.5	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	93.1	U	93.1	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	300	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.6	U	80.6	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.5	U	83.5	150	190	ug/Kg
92-52-4	1,1-Biphenyl	98.6	U	98.6	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	94	U	94	150	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	150	190	ug/Kg
131-11-3	Dimethylphthalate	92.2	U	92.2	150	190	ug/Kg
208-96-8	Acenaphthylene	97.6	U	97.6	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.9	U	93.9	150	190	ug/Kg
99-09-2	3-Nitroaniline	100	U	100	150	190	ug/Kg
83-32-9	Acenaphthene	91.5	U	91.5	150	190	ug/Kg
Total PAH	Total PAH	1490.3	U	1490.3	150	3040	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	300	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	300	370	ug/Kg
132-64-9	Dibenzofuran	95.2	U	95.2	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	97.3	U	97.3	150	190	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	91.2	U	191.2	150	380	ug/Kg
84-66-2	Diethylphthalate	90.4	U	90.4	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	96.6	U	96.6	150	190	ug/Kg
86-73-7	Fluorene	96.5	U	96.5	150	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	300	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	92.1	U	92.1	150	190	ug/Kg
103-33-3	Azobenzene	89.8	U	89.8	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	89	U	89	150	190	ug/Kg
118-74-1	Hexachlorobenzene	95.9	U	95.9	150	190	ug/Kg
1912-24-9	Atrazine	100	U	100	150	190	ug/Kg

Report of Analysis

Client:		Date Collected:	4/30/2024 12:00:00 AM
Project:		Date Received:	4/30/2024 12:00:00 AM
Client Sample ID:	PE-4(4.0-4.5)	SDG No.:	BF050624
Lab Sample ID:	P2327-04	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	11.5
Sample Wt/Vol:	30.04 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
BF137841.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	87.2	U	87.2	300	370	ug/Kg
85-01-8	Phenanthrene	94.8	U	94.8	150	190	ug/Kg
120-12-7	Anthracene	95.2	U	95.2	150	190	ug/Kg
86-74-8	Carbazole	90.6	U	90.6	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.1	U	95.1	150	190	ug/Kg
206-44-0	Fluoranthene	92.2	U	92.2	150	190	ug/Kg
92-87-5	Benzidine	180	U	180	300	370	ug/Kg
129-00-0	Pyrene	93.7	U	93.7	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	300	370	ug/Kg
56-55-3	Benzo(a)anthracene	91.1	U	91.1	150	190	ug/Kg
218-01-9	Chrysene	89.7	U	89.7	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	300	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.5	U	91.5	150	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	93.2	U	93.2	150	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.1	U	88.1	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.6	U	91.6	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.4	U	90.4	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	97.9	U	97.9	150	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	84.3	U	84.3	150	190	ug/Kg
90-12-0	1-Methylnaphthalene	93.9	U	93.9	190	190	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	72.264		18-112		48	SPK: -150
13127-88-3	Phenol-d6	69.434		15-107		46	SPK: -150
4165-60-0	Nitrobenzene-d5	51.615		18-107		52	SPK: -100
321-60-8	2-Fluorobiphenyl	62.305		20-109		62	SPK: -100

Report of Analysis

Client:		Date Collected:	4/30/2024 12:00:00 AM
Project:		Date Received:	4/30/2024 12:00:00 AM
Client Sample ID:	PE-4(4.0-4.5)	SDG No.:	BF050624
Lab Sample ID:	P2327-04	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	11.5
Sample Wt/Vol:	30.04 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
BF137841.D	1	5/6/2024 12:00:00 AM	5/6/2024 12:00:00 AM	PB160725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	78.411		10-110		52	SPK: -150
1718-51-0	Terphenyl-d14	41.395		14-112		41	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	113793	7.051				
1146-65-2	Naphthalene-d8	396714	8.334				
15067-26-2	Acenaphthene-d10	145943	10.116				
1517-22-2	Phenanthrene-d10	175171	11.639				
1719-03-5	Chrysene-d12	214641	14.274				
1520-96-3	Perylene-d12	256583	15.827				



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BF050624

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.: BF043024 SAS No.: BF043024 SDG No.: BF043024
Instrument ID: _____ Calibration Date(s): 4/30/2024 : _____
Calibration Time(s): 11:08 _____

LAB FILE ID:		RRF2.5 = BF137764.D			RRF005 = BF137765.D		RRF010 = BF137766.D	
		RRF020 = BF137767.D			RRF040 = BF137768.D		RRF050 = BF137769.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.625	0.575	0.613	0.577	0.571	0.586	3.9
Pyridine		1.333	1.304	1.418	1.292	1.252	1.302	4.6
2-Fluorophenol		1.313	1.258	1.295	1.164	1.130	1.195	7.7
Benzaldehyde			0.981	0.968	0.780	0.674	0.816	18.5
Aniline		1.617	1.507	1.592	1.500	1.465	1.502	5.4
Phenol-d6		1.671	1.603	1.633	1.478	1.432	1.515	7.8
Phenol		1.700	1.599	1.669	1.515	1.479	1.553	6.7
bis(2-Chloroethyl)ether		1.312	1.255	1.274	1.190	1.163	1.216	5.2
2-Chlorophenol		1.416	1.354	1.402	1.273	1.240	1.302	6.8
1,2-Dichlorobenzene		1.577	1.477	1.488	1.358	1.292	1.387	9.2
1,3-Dichlorobenzene		1.602	1.547	1.577	1.432	1.397	1.468	7.1
1,4-Dichlorobenzene		1.628	1.523	1.577	1.443	1.400	1.473	7.1
Benzyl Alcohol		1.061	1.044	1.118	1.062	1.017	1.048	3.6
2-Methylphenol		1.115	1.065	1.102	1.036	1.015	1.050	4.2
2,2-oxybis(1-Chloropropane)		1.872	1.744	1.804	1.690	1.620	1.709	6.0
Acetophenone		0.498	0.473	0.481	0.445	0.421	0.450	7.7
3+4-Methylphenols		1.497	1.434	1.499	1.376	1.321	1.382	7.2
n-Nitroso-di-n-propylamine	0.970	0.987	0.934	0.967	0.884	0.845	0.905	7.4
Nitrobenzene-d5		0.357	0.350	0.363	0.345	0.332	0.344	3.9
Hexachloroethane		0.509	0.504	0.531	0.497	0.485	0.498	3.8
Nitrobenzene		0.374	0.359	0.372	0.355	0.341	0.355	4.2
Isophorone		0.659	0.632	0.645	0.608	0.589	0.621	4.1
2-Nitrophenol		0.135	0.142	0.165	0.170	0.167	0.161	9.7
2,4-Dimethylphenol		0.243	0.232	0.245	0.229	0.221	0.231	4.1
bis(2-Chloroethoxy)methane		0.408	0.389	0.396	0.372	0.353	0.376	5.9
2,4-Dichlorophenol		0.287	0.279	0.294	0.280	0.272	0.280	3.1
1,2,4-Trichlorobenzene		0.327	0.316	0.319	0.302	0.288	0.305	5.2
Benzoic acid			0.150	0.186	0.204	0.206	0.200	14.2
Naphthalene		1.115	1.061	1.065	0.979	0.922	0.994	8.7
4-Chloroaniline		0.395	0.378	0.383	0.366	0.354	0.369	4.8
Hexachlorobutadiene		0.199	0.194	0.196	0.185	0.176	0.187	5.0
Caprolactam		0.089	0.087	0.089	0.089	0.088	0.089	1.6
4-Chloro-3-methylphenol		0.306	0.296	0.302	0.292	0.279	0.292	3.5
2-Methylnaphthalene		0.718	0.686	0.686	0.634	0.600	0.643	8.4
Hexachlorocyclopentadiene		0.185	0.194	0.222	0.224	0.219	0.215	8.5
2,4,6-Trichlorophenol		0.361	0.353	0.379	0.363	0.352	0.361	2.5

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.: BF043024 SAS No.: BF043024 SDG No.: BF043024
Instrument ID: _____ Calibration Date(s): 4/30/2024 : _____
Calibration Time(s): 11:08 _____

LAB FILE ID:		RRF2.5 = BF137764.D			RRF005 = BF137765.D		RRF010 = BF137766.D	
		RRF020 = BF137767.D			RRF040 = BF137768.D		RRF050 = BF137769.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.471	1.368	1.353	1.187	1.106	1.233	13.4
2,4,5-Trichlorophenol		0.399	0.390	0.414	0.403	0.394	0.398	2.2
1,1-Biphenyl		1.523	1.438	1.480	1.345	1.281	1.373	8.0
2-Chloronaphthalene		1.201	1.148	1.196	1.084	1.045	1.108	6.7
2-Nitroaniline		0.270	0.285	0.310	0.308	0.308	0.301	5.4
Dimethylphthalate		1.364	1.321	1.292	1.242	1.199	1.263	5.1
Acenaphthylene		1.772	1.648	1.711	1.576	1.522	1.603	7.0
2,6-Dinitrotoluene		0.274	0.281	0.299	0.292	0.289	0.289	2.9
3-Nitroaniline		0.290	0.291	0.313	0.307	0.300	0.302	2.9
Acenaphthene		1.145	1.099	1.135	1.046	1.005	1.063	6.0
2,4-Dinitrophenol			0.095	0.125	0.146	0.157	0.142	19.3
4-Nitrophenol		0.233	0.236	0.258	0.256	0.260	0.250	4.6
Dibenzofuran		1.728	1.649	1.645	1.515	1.441	1.546	8.3
2,4-Dinitrotoluene		0.341	0.359	0.384	0.385	0.389	0.377	5.2
Diethylphthalate		1.318	1.255	1.237	1.173	1.138	1.199	6.1
4-Chlorophenyl-phenylether		0.671	0.643	0.638	0.591	0.572	0.606	7.3
Fluorene		1.388	1.317	1.316	1.203	1.148	1.231	9.0
4-Nitroaniline		0.305	0.297	0.308	0.312	0.313	0.306	1.8
4,6-Dinitro-2-methylphenol			0.085	0.108	0.119	0.120	0.115	14.1
n-Nitrosodiphenylamine		0.662	0.610	0.644	0.589	0.560	0.599	7.0
Azobenzene		1.276	1.221	1.199	1.138	1.102	1.159	6.5
2,4,6-Tribromophenol		0.208	0.207	0.210	0.201	0.201	0.204	2.0
4-Bromophenyl-phenylether		0.228	0.212	0.228	0.213	0.202	0.214	4.9
Hexachlorobenzene		0.253	0.235	0.244	0.231	0.223	0.234	4.9
Atrazine		0.205	0.188	0.188	0.180	0.173	0.183	6.9
Pentachlorophenol		0.145	0.150	0.171	0.165	0.163	0.161	5.7
Phenanthrene		1.105	1.029	1.045	0.949	0.913	0.975	8.8
Anthracene		1.083	1.018	1.044	0.952	0.912	0.970	8.2
Carbazole		1.063	0.979	0.997	0.911	0.879	0.935	8.6
Di-n-butylphthalate		1.116	1.061	1.057	1.002	0.977	1.020	6.0
Fluoranthene		1.226	1.119	1.129	1.037	1.011	1.066	9.0
Benzidine		0.481	0.362	0.431	0.534	0.515	0.463	12.5
Pyrene		1.506	1.608	1.691	1.572	1.484	1.586	4.9
Terphenyl-d14		1.244	1.281	1.302	1.153	1.070	1.193	7.5
Butylbenzylphthalate		0.427	0.440	0.493	0.518	0.527	0.503	10.6
3,3-Dichlorobenzidine		0.441	0.399	0.412	0.369	0.376	0.383	9.6

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.: BF043024 SAS No.: BF043024 SDG No.: BF043024
Instrument ID: _____ Calibration Date(s): 4/30/2024 : _____
Calibration Time(s): 11:08 _____

LAB FILE ID:		RRF2.5 = BF137764.D			RRF005 = BF137765.D		RRF010 = BF137766.D	
		RRF020 = BF137767.D			RRF040 = BF137768.D		RRF050 = BF137769.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.361	1.290	1.319	1.249	1.237	1.279	3.7
Chrysene		1.285	1.221	1.248	1.154	1.150	1.198	4.5
Bis(2-ethylhexyl)phthalate		0.636	0.563	0.584	0.627	0.671	0.634	7.3
Di-n-octyl phthalate		0.884	0.714	0.763	0.834	0.916	0.853	10.1
Benzo(b)fluoranthene		1.236	1.230	1.344	1.219	1.239	1.244	3.6
Benzo(k)fluoranthene		1.242	1.249	1.236	1.217	1.194	1.203	3.9
Benzo(a)pyrene		1.043	0.994	1.048	1.000	0.987	1.015	2.3
Indeno(1,2,3-cd)pyrene		0.975	0.939	1.088	1.130	1.090	1.137	15.3
Dibenzo(a,h)anthracene		0.789	0.784	0.899	0.920	0.886	0.926	14.3
Benzo(g,h,i)perylene		0.766	0.779	0.918	0.984	0.935	0.970	18.6
1,2,4,5-Tetrachlorobenzene		0.562	0.546	0.561	0.521	0.502	0.530	5.0
1,4-Dioxane		0.568	0.529	0.572	0.529	0.521	0.538	4.2
2,3,4,6-Tetrachlorophenol		0.336	0.314	0.334	0.325	0.318	0.323	2.7
1-Methylnaphthalene		0.714	0.675	0.675	0.623	0.591	0.633	8.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF050624 SAS No.: BF050624 SDG NO.: BF050624

EPA Sample No.: SSTDICCC040 Date Analyzed: May 6 2024 12:00AM

Lab File ID: BF137768.D Time Analyzed: 12:48

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	243153	7.057	956131	8.35	540805	10.11
UPPER LIMIT	486306	7.557	1912262	8.845	1081610	10.61
LOWER LIMIT	121576.5	6.557	478065.5	7.845	270402.5	9.61
EPA SAMPLE NO.						
01 PB160665BL	143783	7.05	577843	8.33	330397	10.09
02 PB160725BL	143375	7.05	563828	8.33	328352	10.09
03 PB160725BS	140675	7.05	568198	8.33	332757	10.10
04 PE-4 (4.0-4.5)	113793 *	7.05	396714 *	8.33	145943 *	10.12

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.



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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF050624 SAS No.: BF050624 SDG NO.: BF050624

EPA Sample No.: SSTDCCC040 Date Analyzed: May 6 2024 12:00AM

Lab File ID: BF137837.D Time Analyzed: 12:48

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	169642	7.051	654859	8.33	368003	10.10
UPPER LIMIT	339284	7.551	1309718	8.834	736006	10.598
LOWER LIMIT	84821	6.551	327429.5	7.834	184001.5	9.598
EPA SAMPLE NO.						
01 PB160665BL	143783	7.05	577843	8.33	330397	10.09
02 PB160725BL	143375	7.05	563828	8.33	328352	10.09
03 PB160725BS	140675	7.05	568198	8.33	332757	10.10
04 PE-4 (4.0-4.5)	113793	7.05	396714	8.33	145943 *	10.12

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.: BF050624 SAS No.: BF050624 SDG NO.: BF050624

EPA Sample No.: SSTDICCC040 Date Analyzed: May 6 2024 12:00AM

Lab File ID: BF137768.D Time Analyzed: 12:48

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	945981	11.598	642193	14.251	470898	15.821
UPPER LIMIT	1891962	12.098	1284386	14.751	941796	16.321
LOWER LIMIT	472990.5	11.098	321096.5	13.751	235449	15.321
EPA SAMPLE NO.						
01 PB160665BL	604921	11.59	461774	14.24	372247	15.80
02 PB160725BL	599798	11.59	476282	14.24	420023	15.81
03 PB160725BS	587725	11.59	352996	14.25	298795	15.81
04 PE-4(4.0-4.5)	175171 *	11.64	214641 *	14.27	256583	15.83

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.: BF050624 SAS No.: BF050624 SDG NO.: BF050624

EPA Sample No.: SSTDCCC040 Date Analyzed: May 6 2024 12:00AM

Lab File ID: BF137837.D Time Analyzed: 12:48

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	633380	11.592	340200	14.239	332182	15.804
UPPER LIMIT	1266760	12.092	680400	14.739	664364	16.304
LOWER LIMIT	316690	11.092	170100	13.739	166091	15.304
EPA SAMPLE NO.						
01 PB160665BL	604921	11.59	461774	14.24	372247	15.80
02 PB160725BL	599798	11.59	476282	14.24	420023	15.81
03 PB160725BS	587725	11.59	352996	14.25	298795	15.81
04 PE-4(4.0-4.5)	175171 *	11.64	214641	14.27	256583	15.83

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.: **BF050624**

Client:

Analytical Method: **8270E**

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB160725BS	n-Nitrosodimethylamine	1700	1400	ug/Kg	82				57	103	
	Pyridine	1700	1100	ug/Kg	65				28	98	
	Benzaldehyde	1700	1100	ug/Kg	65				10	147	
	Aniline	1700	1100	ug/Kg	65				38	100	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				42	116	
	2-Methylphenol	1700	1500	ug/Kg	88				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				51	100	
	Acetophenone	1700	1500	ug/Kg	88				55	104	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1600	ug/Kg	94				61	111	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				67	119	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				53	105	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	1,2,4-Trichlorobenzene	1700	1400	ug/Kg	82				44	110	
	Benzoic acid	1700	1500	ug/Kg	88				10	140	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	540	ug/Kg	32				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	4000	ug/Kg	121				45	134	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1400	ug/Kg	82				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1500	ug/Kg	88				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	880	ug/Kg	52				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	Total PAH	27200	23900	ug/Kg	88				57	104	
	2,4-Dinitrophenol	3300	3100	ug/Kg	94				37	128	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **BF050624**

Client:

Analytical Method: **8270E**

DataFile:

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB160725BS	4-Nitrophenol	3300	2800	ug/Kg	85				48	119		
	Dibenzofuran	1700	1400	ug/Kg	82				63	99		
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106		
	2,4-Dinitrotoluene/2,6-Dinitro	3400	2900	ug/Kg	85				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	1300	ug/Kg	76				64	103		
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				76	113		
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				56	107		
	Azobenzene	1700	1400	ug/Kg	82				54	103		
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				55	99		
	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98		
	Atrazine	1700	1600	ug/Kg	94				67	113		
	Pentachlorophenol	3300	2600	ug/Kg	79				67	105		
	Phenanthrene	1700	1400	ug/Kg	82				59	103		
	Anthracene	1700	1500	ug/Kg	88				61	105		
	Carbazole	1700	1400	ug/Kg	82				61	99		
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104		
	Fluoranthene	1700	1400	ug/Kg	82				57	107		
	Benzidine	3300	980	ug/Kg	30				10	98		
	Pyrene	1700	1600	ug/Kg	94				59	103		
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103		
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65				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	1800	ug/Kg	106				63	111		
	Di-n-octyl phthalate	1700	1800	ug/Kg	106				70	108		
	Benzo(b)fluoranthene	1700	1400	ug/Kg	82				62	109		
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				62	109		
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103		
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				63	101		
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112		
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				59	108		
	1-Methylnaphthalene	1700	1400	ug/Kg	82				70	130		

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160665BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF050624

SAS No.: BF050624 SDG NO.: BF050624

Lab File ID: BF137838.D

Lab Sample ID: PB160665BL

Instrument ID: BNA_F

Date Extracted: 05/02/2024

Matrix: (soil/water) Solid

Date Analyzed: 05/06/2024

Level: (low/med) LOW

Time Analyzed: 12:48

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

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

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160725BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF050624

SAS No.: BF050624 SDG NO.: BF050624

Lab File ID: BF137839.D

Lab Sample ID: PB160725BL

Instrument ID: BNA_F

Date Extracted: 05/06/2024

Matrix: (soil/water) Solid

Date Analyzed: 05/06/2024

Level: (low/med) LOW

Time Analyzed: 14:00

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB160725BS	PB160725BS	BF137840.D	05/06/2024
PE-4 (4.0-4.5)	P2327-04	BF137841.D	05/06/2024

COMMENTS: _____



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

Surrogate Summary

SW-846

SDG No.: BF050624

Client: _____

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB160665BL	PB160665BL	BF137838.D	2-Fluorophenol	150	128.24	85		18	112
			Phenol-d6	150	124.11	83		15	107
			Nitrobenzene-d5	100	84.59	85		18	107
			2-Fluorobiphenyl	100	87.49	87		20	109
			2,4,6-Tribromophenol	150	133.15	89		10	110
			Terphenyl-d14	100	82.06	82		14	112

Surrogate Summary

SW-846

SDG No.: **BF050624**

Client:

Analytical Method: **8270E**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P2327-04	PE-4(4.0-4.5)	BF137841.D	2-Fluorophenol	150	72.26	48		18	112
			Phenol-d6	150	69.43	46		15	107
			Nitrobenzene-d5	100	51.62	52		18	107
			2-Fluorobiphenyl	100	62.31	62		20	109
			2,4,6-Tribromophenol	150	78.41	52		10	110
			Terphenyl-d14	100	41.40	41		14	112
PB160725BL	PB160725BL	BF137839.D	2-Fluorophenol	150	132.69	88		18	112
			Phenol-d6	150	129.70	86		15	107
			Nitrobenzene-d5	100	89.44	89		18	107
			2-Fluorobiphenyl	100	90.93	91		20	109
			2,4,6-Tribromophenol	150	141.62	94		10	110
			Terphenyl-d14	100	83.88	84		14	112
PB160725BS	PB160725BS	BF137840.D	2-Fluorophenol	150	123.21	82		18	112
			Phenol-d6	150	120.26	80		15	107
			Nitrobenzene-d5	100	83.17	83		18	107
			2-Fluorobiphenyl	100	82.85	83		20	109
			2,4,6-Tribromophenol	150	130.15	87		10	110
			Terphenyl-d14	100	93.24	93		14	112

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BF050624

Lab Code: CHEM

SAS No.: BF050624

SDG NO.: BF050624

Lab File ID: BF137836.D

DFTPP Injection Date: 05/06/2024

Instrument ID: BNA_F

DFTPP Injection Time: 11:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	25.3
68	Less than 2.0% of mass 69	0.5 (2) 1
69	Mass 69 relative abundance	27.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 60.0% of mass 198	28
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 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
SSTDCCC040	SSTDCCC040	BF137837.D	05/06/2024	12:18
PB160665BL	PB160665BL	BF137838.D	05/06/2024	12:48
PB160725BL	PB160725BL	BF137839.D	05/06/2024	14:00
PB160725BS	PB160725BS	BF137840.D	05/06/2024	14:29
PE-4 (4.0-4.5)	P2327-04	BF137841.D	05/06/2024	15:16