

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF091224 SAS No.: BF091224 SDG No.: BF091224

Instrument ID: BNA_F Calibration Date/Time: 9/12/2024 11:47

Lab File ID: BF139340.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	0.873	0.864		-1.031	
Pyridine	1.344	0.950		-29.315	
2-Fluorophenol	1.196	1.139		-4.766	
Benzaldehyde	0.966	0.829		-14.182	
Aniline	1.468	0.967		-34.128	
Phenol-d6	1.596	1.507		-5.576	
Phenol	1.683	1.538		-8.616	20.0
bis(2-Chloroethyl) ether	1.206	1.105		-8.375	
2-Chlorophenol	1.239	1.214		-2.018	
1,2-Dichlorobenzene	1.309	1.310		0.076	
1,3-Dichlorobenzene	1.402	1.375		-1.926	
1,4-Dichlorobenzene	1.404	1.368		-2.564	20.0
Benzyl Alcohol	1.164	1.219		4.725	
2-Methylphenol	1.012	0.948		-6.324	
2,2-oxybis(1-Chloropropane)	2.296	1.823		-20.601	
Acetophenone	0.476	0.492		3.361	
3+4-Methylphenols	1.276	1.311		2.743	
n-Nitroso-di-n-propylamine	0.919	0.924	0.050	0.544	
Nitrobenzene-d5	0.384	0.401		4.427	
Hexachloroethane	0.501	0.534		6.587	
Nitrobenzene	0.408	0.414		1.471	
Isophorone	0.657	0.632		-3.805	
2-Nitrophenol	0.160	0.168		5.0	20.0
2,4-Dimethylphenol	0.229	0.216		-5.677	
bis(2-Chloroethoxy) methane	0.392	0.363		-7.398	
2,4-Dichlorophenol	0.274	0.270		-1.46	20.0
1,2,4-Trichlorobenzene	0.313	0.316		0.958	
Benzoic acid	0.208	0.198		-4.808	
Naphthalene	1.013	0.996		-1.678	
4-Chloroaniline	0.351	0.265		-24.501	
Hexachlorobutadiene	0.198	0.218		10.101	20.0
Caprolactam	0.085	0.076		-10.588	
4-Chloro-3-methylphenol	0.298	0.306		2.685	20.0
2-Methylnaphthalene	0.634	0.626		-1.262	
Hexachlorocyclopentadiene	0.182	0.205	0.050	12.637	
2,4,6-Trichlorophenol	0.370	0.366		-1.081	20.0
2-Fluorobiphenyl	1.296	1.364		5.247	
2,4,5-Trichlorophenol	0.388	0.386		-0.515	
1,1-Biphenyl	1.482	1.466		-1.08	

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Lab Code: CHEM Case No.: BF091224 SAS No.: BF091224 SDG No.: BF091224
Instrument ID: BNA_F Calibration Date/Time: 9/12/2024 11:47
Lab File ID: BF139340.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	1.119	1.098		-1.877	
2-Nitroaniline	0.385	0.396		2.857	
Dimethylphthalate	1.212	1.219		0.578	
Acenaphthylene	1.685	1.618		-3.976	
2,6-Dinitrotoluene	0.275	0.276		0.364	
3-Nitroaniline	0.293	0.270		-7.85	
Acenaphthene	1.118	1.121		0.268	20.0
2,4-Dinitrophenol	0.118	0.139	0.050	17.797	
4-Nitrophenol	0.216	0.208	0.050	-3.704	
Dibenzofuran	1.603	1.560		-2.682	
2,4-Dinitrotoluene	0.350	0.367		4.857	
Diethylphthalate	1.193	1.255		5.197	
4-Chlorophenyl-phenylether	0.599	0.633		5.676	
Fluorene	1.242	1.274		2.576	
4-Nitroaniline	0.279	0.271		-2.867	
4,6-Dinitro-2-methylphenol	0.092	0.103		11.957	
n-Nitrosodiphenylamine	0.582	0.572		-1.718	20.0
Azobenzene	1.257	1.227		-2.387	
2,4,6-Tribromophenol	0.173	0.196		13.295	
4-Bromophenyl-phenylether	0.194	0.199		2.577	
Hexachlorobenzene	0.222	0.232		4.505	
Atrazine	0.134	0.098		-26.866	
Pentachlorophenol	0.128	0.134		4.688	20.0
Phenanthrene	0.934	0.924		-1.071	
Anthracene	0.913	0.896		-1.862	
Carbazole	0.853	0.833		-2.345	
Di-n-butylphthalate	0.873	0.950		8.82	
Fluoranthene	0.937	0.941		0.427	20.0
Benzidine	0.403	0.302		-25.062	
Pyrene	1.932	1.938		0.311	
Terphenyl-d14	1.239	1.370		10.573	
Butylbenzylphthalate	0.455	0.571		25.495	
3,3-Dichlorobenzidine	0.339	0.344		1.475	
Benzo(a)anthracene	1.277	1.245		-2.506	
Chrysene	1.192	1.151		-3.44	
Bis(2-ethylhexyl)phthalate	0.534	0.633		18.539	
Di-n-octyl phthalate	1.022	1.019		-0.294	20.0
Benzo(b)fluoranthene	1.152	1.254		8.854	
Benzo(k)fluoranthene	1.033	0.938		-9.197	

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Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BF091224 SAS No.: BF091224 SDG No.: BF091224

Instrument ID: BNA_F Calibration Date/Time: 9/12/2024 11:47

Lab File ID: BF139340.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	0.978	0.975		-0.307	20.0
Indeno(1,2,3-cd)pyrene	1.249	1.239		-0.801	
Dibenzo(a,h)anthracene	1.030	1.019		-1.068	
Benzo(g,h,i)perylene	1.063	1.032		-2.916	
1,2,4,5-Tetrachlorobenzene	0.566	0.569		0.53	
1,4-Dioxane	0.557	0.438		-21.364	20.0
2,3,4,6-Tetrachlorophenol	0.305	0.304		-0.328	
1-Methylnaphthalene	0.623	0.604		-3.05	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	9/12/2024 12:00:00 AM
Project:		Date Received:	9/12/2024 12:00:00 AM
Client Sample ID:	PB163323BL	SDG No.:	BF091224
Lab Sample ID:	PB163323BL	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
BF139341.D	1	9/12/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163323

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:	9/12/2024 12:00:00 AM
Project:		Date Received:	9/12/2024 12:00:00 AM
Client Sample ID:	PB163323BL	SDG No.:	BF091224
Lab Sample ID:	PB163323BL	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
BF139341.D	1	9/12/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163323

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:	9/12/2024 12:00:00 AM
Project:		Date Received:	9/12/2024 12:00:00 AM
Client Sample ID:	PB163323BL	SDG No.:	BF091224
Lab Sample ID:	PB163323BL	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
BF139341.D	1	9/12/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163323

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	150.32		18-112		100	SPK: -150
13127-88-3	Phenol-d6	144.871		15-107		97	SPK: -150
4165-60-0	Nitrobenzene-d5	111.489	*	18-107		111	SPK: -100
321-60-8	2-Fluorobiphenyl	110.958	*	20-109		111	SPK: -100

Report of Analysis

Client:		Date Collected:	9/12/2024 12:00:00 AM
Project:		Date Received:	9/12/2024 12:00:00 AM
Client Sample ID:	PB163323BL	SDG No.:	BF091224
Lab Sample ID:	PB163323BL	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
BF139341.D	1	9/12/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163323

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	179.721	*	10-116		120	SPK: -150
1718-51-0	Terphenyl-d14	102.031		10-105		102	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	53068	6.875				
1146-65-2	Naphthalene-d8	195922	8.157				
15067-26-2	Acenaphthene-d10	110617	9.916				
1517-22-2	Phenanthrene-d10	213202	11.398				
1719-03-5	Chrysene-d12	141250	14.033				
1520-96-3	Perylene-d12	108988	15.51				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	160	J			2.293	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	A			5.128	
	unknown17.098	110	J			17.098	

Report of Analysis

Client:		Date Collected:	9/11/2024 12:00:00 AM
Project:		Date Received:	9/11/2024 12:00:00 AM
Client Sample ID:	BREAKER-2546-BASE	SDG No.:	BF091224
Lab Sample ID:	P3949-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	50.04	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
BF139342.D	1	9/12/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163323

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	52	U	52	160	200	ug/Kg
110-86-1	Pyridine	47.9	U	47.9	77.9	100	ug/Kg
100-52-7	Benzaldehyde	110	U	110	160	200	ug/Kg
62-53-3	Aniline	58.1	U	58.1	77.9	100	ug/Kg
108-95-2	Phenol	49.7	U	49.7	77.9	100	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	50.2	U	50.2	77.9	100	ug/Kg
95-57-8	2-Chlorophenol	50.1	U	50.1	77.9	100	ug/Kg
95-50-1	1,2-Dichlorobenzene	50.7	U	50.7	77.9	100	ug/Kg
541-73-1	1,3-Dichlorobenzene	51.6	U	51.6	77.9	100	ug/Kg
106-46-7	1,4-Dichlorobenzene	51.9	U	51.9	77.9	100	ug/Kg
100-51-6	Benzyl Alcohol	49.8	U	49.8	160	200	ug/Kg
95-48-7	2-Methylphenol	48.3	U	48.3	77.9	100	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	54.5	U	54.5	77.9	100	ug/Kg
98-86-2	Acetophenone	52.1	U	52.1	77.9	100	ug/Kg
65794-96-9	3+4-Methylphenols	47.8	U	47.8	160	200	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	24.2	U	24.2	48	48	ug/Kg
67-72-1	Hexachloroethane	49.8	U	49.8	77.9	100	ug/Kg
98-95-3	Nitrobenzene	54.4	U	54.4	77.9	100	ug/Kg
78-59-1	Isophorone	50.7	U	50.7	77.9	100	ug/Kg
88-75-5	2-Nitrophenol	56.7	U	56.7	77.9	100	ug/Kg
105-67-9	2,4-Dimethylphenol	55.9	U	55.9	77.9	100	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	51.4	U	51.4	77.9	100	ug/Kg
120-83-2	2,4-Dichlorophenol	45.3	U	45.3	77.9	100	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	51.2	U	51.2	77.9	100	ug/Kg
65-85-0	Benzoic acid	140	U	140	160	200	ug/Kg
91-20-3	Naphthalene	49.5	U	49.5	77.9	100	ug/Kg
106-47-8	4-Chloroaniline	49.5	U	49.5	77.9	100	ug/Kg
87-68-3	Hexachlorobutadiene	49.9	U	49.9	77.9	100	ug/Kg

Report of Analysis

Client:		Date Collected:	9/11/2024 12:00:00 AM
Project:		Date Received:	9/11/2024 12:00:00 AM
Client Sample ID:	BREAKER-2546-BASE	SDG No.:	BF091224
Lab Sample ID:	P3949-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	50.04 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
BF139342.D	1	9/12/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163323

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	52	U	52	160	200	ug/Kg
59-50-7	4-Chloro-3-methylphenol	46.5	U	46.5	77.9	100	ug/Kg
91-57-6	2-Methylnaphthalene	49.5	U	49.5	77.9	100	ug/Kg
77-47-4	Hexachlorocyclopentadiene	93.5	U	93.5	160	200	ug/Kg
88-06-2	2,4,6-Trichlorophenol	42.8	U	42.8	77.9	100	ug/Kg
95-95-4	2,4,5-Trichlorophenol	44.4	U	44.4	77.9	100	ug/Kg
92-52-4	1,1-Biphenyl	52.4	U	52.4	77.9	100	ug/Kg
91-58-7	2-Chloronaphthalene	49.9	U	49.9	77.9	100	ug/Kg
88-74-4	2-Nitroaniline	57	U	57	77.9	100	ug/Kg
131-11-3	Dimethylphthalate	49	U	49	77.9	100	ug/Kg
208-96-8	Acenaphthylene	51.9	U	51.9	77.9	100	ug/Kg
606-20-2	2,6-Dinitrotoluene	49.9	U	49.9	77.9	100	ug/Kg
99-09-2	3-Nitroaniline	53.5	U	53.5	77.9	100	ug/Kg
83-32-9	Acenaphthene	48.6	U	48.6	77.9	100	ug/Kg
Total PAH	Total PAH	794.6	U	794.6	77.9	1600	ug/Kg
51-28-5	2,4-Dinitrophenol	150	U	150	160	200	ug/Kg
100-02-7	4-Nitrophenol	69.5	U	69.5	160	200	ug/Kg
132-64-9	Dibenzofuran	50.6	U	50.6	77.9	100	ug/Kg
121-14-2	2,4-Dinitrotoluene	51.7	U	51.7	77.9	100	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	101.6	U	101.6	77.9	200	ug/Kg
84-66-2	Diethylphthalate	48	U	48	77.9	100	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	51.3	U	51.3	77.9	100	ug/Kg
86-73-7	Fluorene	51.3	U	51.3	77.9	100	ug/Kg
100-01-6	4-Nitroaniline	64.1	U	64.1	77.9	100	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	70.1	U	70.1	160	200	ug/Kg
86-30-6	n-Nitrosodiphenylamine	48.9	U	48.9	77.9	100	ug/Kg
103-33-3	Azobenzene	47.7	U	47.7	77.9	100	ug/Kg
101-55-3	4-Bromophenyl-phenylether	47.3	U	47.3	77.9	100	ug/Kg
118-74-1	Hexachlorobenzene	51	U	51	77.9	100	ug/Kg
1912-24-9	Atrazine	54.8	U	54.8	77.9	100	ug/Kg

Report of Analysis

Client:		Date Collected:	9/11/2024 12:00:00 AM
Project:		Date Received:	9/11/2024 12:00:00 AM
Client Sample ID:	BREAKER-2546-BASE	SDG No.:	BF091224
Lab Sample ID:	P3949-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	50.04 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
BF139342.D	1	9/12/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163323

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	46.3	U	46.3	160	200	ug/Kg
85-01-8	Phenanthrene	50.4	U	50.4	77.9	100	ug/Kg
120-12-7	Anthracene	50.6	U	50.6	77.9	100	ug/Kg
86-74-8	Carbazole	48.1	U	48.1	77.9	100	ug/Kg
84-74-2	Di-n-butylphthalate	50.5	U	50.5	77.9	100	ug/Kg
206-44-0	Fluoranthene	49	U	49	77.9	100	ug/Kg
92-87-5	Benzidine	97.7	U	97.7	160	200	ug/Kg
129-00-0	Pyrene	49.8	U	49.8	77.9	100	ug/Kg
85-68-7	Butylbenzylphthalate	58	U	58	77.9	100	ug/Kg
91-94-1	3,3-Dichlorobenzidine	59.1	U	59.1	160	200	ug/Kg
56-55-3	Benzo(a)anthracene	48.4	U	48.4	77.9	100	ug/Kg
218-01-9	Chrysene	47.7	U	47.7	77.9	100	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	54.6	U	54.6	77.9	100	ug/Kg
117-84-0	Di-n-octyl phthalate	65.9	U	65.9	160	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	48.6	U	48.6	77.9	100	ug/Kg
207-08-9	Benzo(k)fluoranthene	49.5	U	49.5	77.9	100	ug/Kg
50-32-8	Benzo(a)pyrene	55.8	U	55.8	77.9	100	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46.8	U	46.8	77.9	100	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	48.7	U	48.7	77.9	100	ug/Kg
191-24-2	Benzo(g,h,i)perylene	48	U	48	77.9	100	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	52	U	52	77.9	100	ug/Kg
123-91-1	1,4-Dioxane	65.9	U	65.9	77.9	100	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	44.8	U	44.8	77.9	100	ug/Kg
90-12-0	1-Methylnaphthalene	49.9	U	49.9	100	100	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	59.051		18-112		39	SPK: -150
13127-88-3	Phenol-d6	74.641		15-107		50	SPK: -150
4165-60-0	Nitrobenzene-d5	66.376		18-107		66	SPK: -100
321-60-8	2-Fluorobiphenyl	71.46		20-109		71	SPK: -100

Report of Analysis

Client:		Date Collected:	9/11/2024 12:00:00 AM
Project:		Date Received:	9/11/2024 12:00:00 AM
Client Sample ID:	BREAKER-2546-BASE	SDG No.:	BF091224
Lab Sample ID:	P3949-01	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	50.04 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
BF139342.D	1	9/12/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163323

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	51.538		10-116		34	SPK: -150
1718-51-0	Terphenyl-d14	76.421		10-105		76	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	46106	6.875				
1146-65-2	Naphthalene-d8	176633	8.157				
15067-26-2	Acenaphthene-d10	95989	9.916				
1517-22-2	Phenanthrene-d10	181154	11.398				
1719-03-5	Chrysene-d12	95174	14.033				
1520-96-3	Perylene-d12	85325	15.504				

Report of Analysis

Client:		Date Collected:	9/9/2024 12:00:00 AM
Project:		Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	282-COMPOSITE-1DL	SDG No.:	BF091224
Lab Sample ID:	P3912-01DL	Matrix:	Water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
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
BF139343.D	2	9/10/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163274

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	2.1	U	2.1	16	20	ug/L
110-86-1	Pyridine	3.1	U	3.1	8	10	ug/L
100-52-7	Benzaldehyde	8	U	8	16	20	ug/L
62-53-3	Aniline	3.2	U	3.2	8	10	ug/L
108-95-2	Phenol	1.9	U	1.9	8	10	ug/L
111-44-4	bis(2-Chloroethyl)ether	2.4	U	2.4	8	10	ug/L
95-57-8	2-Chlorophenol	1.4	U	1.4	8	10	ug/L
95-50-1	1,2-Dichlorobenzene	1.8	U	1.8	8	10	ug/L
541-73-1	1,3-Dichlorobenzene	1.6	U	1.6	8	10	ug/L
106-46-7	1,4-Dichlorobenzene	1.7	U	1.7	8	10	ug/L
100-51-6	Benzyl Alcohol	3.2	U	3.2	16	20	ug/L
95-48-7	2-Methylphenol	2.3	U	2.3	8	10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	2.7	U	2.7	8	10	ug/L
98-86-2	Acetophenone	2.2	U	2.2	8	10	ug/L
65794-96-9	3+4-Methylphenols	2.3	U	2.3	16	20	ug/L
621-64-7	n-Nitroso-di-n-propylamine	3	U	3	5	5	ug/L
67-72-1	Hexachloroethane	2	U	2	8	10	ug/L
98-95-3	Nitrobenzene	2.5	U	2.5	8	10	ug/L
78-59-1	Isophorone	2.3	U	2.3	8	10	ug/L
88-75-5	2-Nitrophenol	3.9	U	3.9	8	10	ug/L
105-67-9	2,4-Dimethylphenol	3	U	3	8	10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	2	U	2	8	10	ug/L
120-83-2	2,4-Dichlorophenol	1.8	U	1.8	8	10	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.2	U	2.2	8	10	ug/L
65-85-0	Benzoic acid	10.9	U	10.9	16	20	ug/L
91-20-3	Naphthalene	30	D	2	8	10	ug/L
106-47-8	4-Chloroaniline	2.6	U	2.6	8	10	ug/L
87-68-3	Hexachlorobutadiene	2.5	U	2.5	8	10	ug/L

Report of Analysis

Client:		Date Collected:	9/9/2024 12:00:00 AM
Project:		Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	282-COMPOSITE-1DL	SDG No.:	BF091224
Lab Sample ID:	P3912-01DL	Matrix:	Water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139343.D	2	9/10/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163274

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	3.3	U	3.3	16	20	ug/L
59-50-7	4-Chloro-3-methylphenol	1.7	U	1.7	8	10	ug/L
91-57-6	2-Methylnaphthalene	46.9	D	2.3	8	10	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U	10	16	20	ug/L
88-06-2	2,4,6-Trichlorophenol	1.8	U	1.8	8	10	ug/L
95-95-4	2,4,5-Trichlorophenol	2	U	2	8	10	ug/L
92-52-4	1,1-Biphenyl	8.6	JD	1.8	8	10	ug/L
91-58-7	2-Chloronaphthalene	1.9	U	1.9	8	10	ug/L
88-74-4	2-Nitroaniline	2.8	U	2.8	8	10	ug/L
131-11-3	Dimethylphthalate	1.9	U	1.9	8	10	ug/L
208-96-8	Acenaphthylene	2.1	U	2.1	8	10	ug/L
606-20-2	2,6-Dinitrotoluene	2.5	U	2.5	8	10	ug/L
99-09-2	3-Nitroaniline	2.7	U	2.7	8	10	ug/L
83-32-9	Acenaphthene	79.5	D	1.6	8	10	ug/L
Total PAH	Total PAH	333.3	D	34.5	8	160	ug/L
51-28-5	2,4-Dinitrophenol	12.8	U	12.8	16	20	ug/L
100-02-7	4-Nitrophenol	4	U	4	16	20	ug/L
132-64-9	Dibenzofuran	50.3	D	1.9	8	10	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	6.5	U	5.5	8	20	ug/L
121-14-2	2,4-Dinitrotoluene	3	U	3	8	10	ug/L
84-66-2	Diethylphthalate	2.1	U	2.1	8	10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	2	U	2	8	10	ug/L
86-73-7	Fluorene	81	D	1.9	8	10	ug/L
100-01-6	4-Nitroaniline	4.1	U	4.1	8	10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	6.1	U	6.1	16	20	ug/L
86-30-6	n-Nitrosodiphenylamine	1.8	U	1.8	8	10	ug/L
103-33-3	Azobenzene	2.4	U	2.4	8	10	ug/L
101-55-3	4-Bromophenyl-phenylether	1.9	U	1.9	8	10	ug/L
118-74-1	Hexachlorobenzene	2.3	U	2.3	8	10	ug/L
1912-24-9	Atrazine	2.5	U	2.5	8	10	ug/L

Report of Analysis

Client:		Date Collected:	9/9/2024 12:00:00 AM
Project:		Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	282-COMPOSITE-1DL	SDG No.:	BF091224
Lab Sample ID:	P3912-01DL	Matrix:	Water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
		Test:	uL
Extraction Type :		Decanted :	Level :
			LOW
Injection Volume :		GPC Factor :	GPC Cleanup :
			PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139343.D	2	9/10/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163274

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	3.7	U	3.7	16	20	ug/L
85-01-8	Phenanthrene	100	D	1.8	8	10	ug/L
120-12-7	Anthracene	6.9	JD	2.1	8	10	ug/L
86-74-8	Carbazole	9.6	JD	2.3	8	10	ug/L
84-74-2	Di-n-butylphthalate	2.9	U	2.9	8	10	ug/L
206-44-0	Fluoranthene	24.7	D	2.6	8	10	ug/L
92-87-5	Benzidine	8.1	U	8.1	16	20	ug/L
129-00-0	Pyrene	11.2	D	2.1	8	10	ug/L
85-68-7	Butylbenzylphthalate	4.2	U	4.2	8	10	ug/L
91-94-1	3,3-Dichlorobenzidine	2.6	U	2.6	16	20	ug/L
56-55-3	Benzo(a)anthracene	1.9	U	1.9	8	10	ug/L
218-01-9	Chrysene	1.7	U	1.7	8	10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	3.8	U	3.8	8	10	ug/L
117-84-0	Di-n-octyl phthalate	5	U	5	16	20	ug/L
205-99-2	Benzo(b)fluoranthene	2.3	U	2.3	8	10	ug/L
207-08-9	Benzo(k)fluoranthene	2.4	U	2.4	8	10	ug/L
50-32-8	Benzo(a)pyrene	3.3	U	3.3	8	10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	2	U	2	8	10	ug/L
53-70-3	Dibenzo(a,h)anthracene	2.3	U	2.3	8	10	ug/L
191-24-2	Benzo(g,h,i)perylene	2.4	U	2.4	8	10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	2.2	U	2.2	8	10	ug/L
123-91-1	1,4-Dioxane	2.5	U	2.5	8	10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1.6	U	1.6	8	10	ug/L
90-12-0	1-Methylnaphthalene	28.8	D	1.7	8	10	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	56.498		10-139		38	SPK: -150
13127-88-3	Phenol-d6	41.682		10-134		28	SPK: -150
4165-60-0	Nitrobenzene-d5	46.368	*	49-133		46	SPK: -100
321-60-8	2-Fluorobiphenyl	47.28	*	52-132		47	SPK: -100

Report of Analysis

Client:		Date Collected:	9/9/2024 12:00:00 AM
Project:		Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	282-COMPOSITE-1DL	SDG No.:	BF091224
Lab Sample ID:	P3912-01DL	Matrix:	Water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139343.D	2	9/10/2024 12:00:00 AM	9/12/2024 12:00:00 AM	PB163274

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	92.048		44-137		61	SPK: -150
1718-51-0	Terphenyl-d14	60.532		48-125		61	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	48815	6.875				
1146-65-2	Naphthalene-d8	183535	8.157				
15067-26-2	Acenaphthene-d10	100400	9.916				
1517-22-2	Phenanthrene-d10	176003	11.404				
1719-03-5	Chrysene-d12	93961	14.033				
1520-96-3	Perylene-d12	73005	15.504				



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

Hit Summary Sheet
SW-846

SDG No.: BF091224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : 282-COMPOSITE-1DL								
P3912-01DL	282-COMPOSITE-1DL	Water	1,1-Biphenyl	8.600	JD	1.8	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	1-Methylnaphthalene	28.800	D	1.7	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	2-Methylnaphthalene	46.900	D	2.3	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Acenaphthene	79.500	D	1.6	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Anthracene	6.900	JD	2.1	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Carbazole	9.600	JD	2.3	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Dibenzofuran	50.300	D	1.9	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Fluoranthene	24.700	D	2.6	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Fluorene	81.000	D	1.9	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Naphthalene	30.000	D	2	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Phenanthrene	100.000	D	1.8	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Pyrene	11.200	D	2.1	10	ug/L
P3912-01DL	282-COMPOSITE-1DL	Water	Total PAH	333.000	D	34.5	160	ug/L
Total Svoc :				810.50				
Total Concentration:				810.50				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BF090424 SAS No.: BF090424 SDG No.: BF090424
Instrument ID: _____ Calibration Date(s): 9/4/2024 1: _____
Calibration Time(s): 11:39 _____

LAB FILE ID:		RRF2.5 = BF139234.D			RRF005 = BF139235.D		RRF010 = BF139236.D	
		RRF020 = BF139237.D			RRF040 = BF139238.D		RRF050 = BF139239.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.883	0.876	0.895	0.858	0.848	0.873	1.9
Pyridine		1.421	1.402	1.399	1.301	1.300	1.344	4.5
2-Fluorophenol		1.281	1.246	1.262	1.144	1.146	1.196	5.5
Benzaldehyde		1.131	1.111	1.049	0.857	0.836	0.966	15.2
Aniline		1.597	1.558	1.537	1.420	1.402	1.468	6.4
Phenol-d6		1.758	1.682	1.667	1.543	1.508	1.596	6.6
Phenol		1.847	1.799	1.773	1.629	1.606	1.683	7.3
bis(2-Chloroethyl)ether		1.312	1.285	1.259	1.154	1.169	1.206	6.7
2-Chlorophenol		1.365	1.322	1.301	1.180	1.170	1.239	7.1
1,2-Dichlorobenzene		1.467	1.422	1.391	1.265	1.216	1.309	8.8
1,3-Dichlorobenzene		1.551	1.499	1.465	1.344	1.324	1.402	7.2
1,4-Dichlorobenzene		1.537	1.496	1.490	1.352	1.326	1.404	7.1
Benzyl Alcohol		1.229	1.189	1.223	1.140	1.120	1.164	4.3
2-Methylphenol		1.082	1.064	1.050	0.975	0.964	1.012	5.0
2,2-oxybis(1-Chloropropane)		2.481	2.420	2.398	2.238	2.182	2.296	5.9
Acetophenone		0.531	0.503	0.504	0.459	0.447	0.476	7.5
3+4-Methylphenols		1.401	1.370	1.352	1.239	1.195	1.276	7.6
n-Nitroso-di-n-propylamine		0.998	0.987	0.952	0.880	0.863	0.919	6.3
Nitrobenzene-d5	0.371	0.401	0.387	0.403	0.377	0.374	0.384	3.2
Hexachloroethane		0.543	0.522	0.519	0.482	0.480	0.501	5.3
Nitrobenzene		0.416	0.425	0.425	0.397	0.393	0.408	3.4
Isophorone		0.680	0.670	0.684	0.641	0.630	0.657	3.2
2-Nitrophenol		0.137	0.148	0.166	0.164	0.165	0.160	7.8
2,4-Dimethylphenol		0.235	0.232	0.237	0.226	0.222	0.229	2.8
bis(2-Chloroethoxy)methane		0.410	0.410	0.411	0.378	0.373	0.392	4.6
2,4-Dichlorophenol		0.279	0.276	0.290	0.270	0.266	0.274	3.3
1,2,4-Trichlorobenzene		0.334	0.325	0.324	0.304	0.299	0.313	5.1
Benzoic acid			0.161	0.198	0.204	0.218	0.208	13.4
Naphthalene		1.117	1.065	1.068	0.982	0.954	1.013	6.9
4-Chloroaniline		0.380	0.364	0.364	0.335	0.332	0.351	5.4
Hexachlorobutadiene		0.214	0.205	0.208	0.190	0.189	0.198	5.7
Caprolactam		0.081	0.085	0.088	0.085	0.083	0.085	3.0
4-Chloro-3-methylphenol		0.309	0.299	0.313	0.295	0.284	0.298	3.5
2-Methylnaphthalene		0.708	0.665	0.670	0.609	0.592	0.634	7.5
Hexachlorocyclopentadiene		0.153	0.174	0.190	0.192	0.186	0.182	7.7
2,4,6-Trichlorophenol		0.381	0.362	0.380	0.374	0.356	0.370	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.: BF090424

SAS No.: BF090424

SDG No.: BF090424

Instrument ID:

Calibration Date(s): 9/4/2024 1:

Calibration Time(s): 11:39

LAB FILE ID:		RRF2.5 = BF139234.D			RRF005 = BF139235.D		RRF010 = BF139236.D	
		RRF020 = BF139237.D			RRF040 = BF139238.D		RRF050 = BF139239.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.509	1.434	1.406	1.214	1.183	1.296	11.6
2,4,5-Trichlorophenol		0.389	0.398	0.417	0.379	0.377	0.388	4.4
1,1-Biphenyl		1.645	1.577	1.576	1.423	1.393	1.482	7.8
2-Chloronaphthalene		1.236	1.171	1.194	1.068	1.053	1.119	7.2
2-Nitroaniline		0.351	0.374	0.400	0.386	0.387	0.385	4.7
Dimethylphthalate		1.311	1.264	1.282	1.163	1.142	1.212	5.9
Acenaphthylene		1.851	1.774	1.797	1.623	1.585	1.685	7.1
2,6-Dinitrotoluene		0.268	0.271	0.289	0.277	0.269	0.275	2.7
3-Nitroaniline		0.290	0.291	0.310	0.292	0.287	0.293	2.8
Acenaphthene		1.184	1.153	1.177	1.087	1.074	1.118	4.7
2,4-Dinitrophenol			0.070	0.099	0.121	0.128	0.118	24.4
4-Nitrophenol		0.187	0.204	0.231	0.225	0.219	0.216	7.4
Dibenzofuran		1.779	1.687	1.719	1.537	1.508	1.603	7.8
2,4-Dinitrotoluene		0.308	0.344	0.371	0.360	0.353	0.350	5.9
Diethylphthalate		1.270	1.222	1.262	1.163	1.137	1.193	4.9
4-Chlorophenyl-phenylether		0.669	0.643	0.645	0.580	0.556	0.599	8.8
Fluorene		1.419	1.336	1.317	1.192	1.148	1.242	9.2
4-Nitroaniline		0.261	0.282	0.300	0.283	0.277	0.279	4.7
4,6-Dinitro-2-methylphenol			0.065	0.087	0.096	0.097	0.092	16.4
n-Nitrosodiphenylamine		0.621	0.605	0.612	0.557	0.550	0.582	5.1
Azobenzene		1.378	1.290	1.332	1.213	1.181	1.257	6.3
2,4,6-Tribromophenol		0.176	0.176	0.184	0.169	0.167	0.173	4.1
4-Bromophenyl-phenylether		0.201	0.201	0.202	0.189	0.182	0.194	4.2
Hexachlorobenzene		0.240	0.230	0.232	0.213	0.210	0.222	5.3
Atrazine		0.158	0.154	0.142	0.125	0.093	0.134	19.8
Pentachlorophenol		0.102	0.118	0.136	0.136	0.133	0.128	10.5
Phenanthrene		1.042	0.991	0.996	0.889	0.871	0.934	7.9
Anthracene		0.991	0.972	0.972	0.887	0.853	0.913	7.0
Carbazole		0.932	0.912	0.937	0.826	0.796	0.853	8.6
Di-n-butylphthalate		0.877	0.904	0.947	0.883	0.841	0.873	5.1
Fluoranthene		1.054	1.046	1.049	0.901	0.851	0.937	11.8
Benzidine		0.389	0.420	0.405	0.435	0.383	0.403	4.6
Pyrene		2.084	2.067	2.172	1.941	1.825	1.932	9.9
Terphenyl-d14		1.403	1.388	1.398	1.227	1.138	1.239	13.0
Butylbenzylphthalate		0.347	0.421	0.473	0.486	0.471	0.455	11.7
3,3-Dichlorobenzidine		0.282	0.300	0.340	0.347	0.351	0.339	10.7

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.: BF090424 SAS No.: BF090424 SDG No.: BF090424
Instrument ID: _____ Calibration Date(s): 9/4/2024 1: _____
Calibration Time(s): 11:39 _____

LAB FILE ID:		RRF2.5 = BF139234.D			RRF005 = BF139235.D		RRF010 = BF139236.D	
		RRF020 = BF139237.D			RRF040 = BF139238.D		RRF050 = BF139239.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.351	1.321	1.324	1.220	1.238	1.277	4.5
Chrysene		1.246	1.228	1.252	1.194	1.100	1.192	4.6
Bis(2-ethylhexyl)phthalate		0.392	0.442	0.512	0.578	0.565	0.534	16.8
Di-n-octyl phthalate			0.709	0.891	1.071	1.087	1.022	18.4
Benzo(b)fluoranthene		1.153	1.118	1.274	1.145	1.073	1.152	5.9
Benzo(k)fluoranthene		1.085	1.102	1.010	1.021	1.043	1.033	4.5
Benzo(a)pyrene		0.954	0.944	1.020	0.984	0.965	0.978	2.9
Indeno(1,2,3-cd)pyrene		1.196	1.251	1.284	1.257	1.244	1.249	2.4
Dibenzo(a,h)anthracene		0.979	1.028	1.078	1.047	1.021	1.030	3.1
Benzo(g,h,i)perylene		1.062	1.037	1.115	1.063	1.051	1.063	2.6
1,2,4,5-Tetrachlorobenzene		0.623	0.605	0.600	0.539	0.529	0.566	7.5
1,4-Dioxane		0.598	0.557	0.577	0.544	0.536	0.557	4.3
2,3,4,6-Tetrachlorophenol		0.312	0.316	0.322	0.300	0.296	0.305	3.9
1-Methylnaphthalene		0.688	0.669	0.654	0.602	0.585	0.623	7.5

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.: BF091224 SAS No.: BF091224 SDG NO.: BF091224

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

Lab File ID: BF139238.D Time Analyzed: 16:00

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	130545	6.893	471691	8.18	256219	9.93
UPPER LIMIT	261090	7.393	943382	8.675	512438	10.428
LOWER LIMIT	65272.5	6.393	235845.5	7.675	128109.5	9.428
EPA SAMPLE NO.						
01 PB163323BL	53068 *	6.88	195922 *	8.16	110617 *	9.92
02 BREAKER-2546-BASE	46106 *	6.88	176633 *	8.16	95989 *	9.92
03 282-COMPOSITE-1DL	48815 *	6.88	183535 *	8.16	100400 *	9.92

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.: BF091224 SAS No.: BF091224 SDG NO.: BF091224

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

Lab File ID: BF139340.D Time Analyzed: 16:00

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	71403	6.886	261003	8.17	142517	9.92
UPPER LIMIT	142806	7.386	522006	8.669	285034	10.422
LOWER LIMIT	35701.5	6.386	130501.5	7.669	71258.5	9.422
EPA SAMPLE NO.						
01 PB163323BL	53068	6.88	195922	8.16	110617	9.92
02 BREAKER-2546-BASE	46106	6.88	176633	8.16	95989	9.92
03 282-COMPOSITE-1DL	48815	6.88	183535	8.16	100400	9.92

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.: BF091224 SAS No.: BF091224 SDG NO.: BF091224

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

Lab File ID: BF139238.D Time Analyzed: 16:00

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	463513	11.416	215446	14.051	225523	15.527
UPPER LIMIT	927026	11.916	430892	14.551	451046	16.027
LOWER LIMIT	231756.5	10.916	107723	13.551	112761.5	15.027
EPA SAMPLE NO.						
01 PB163323BL	213202 *	11.40	141250	14.03	108988 *	15.51
02 BREAKER-2546-BASE	181154 *	11.40	95174 *	14.03	85325 *	15.50
03 282-COMPOSITE-1DL	176003 *	11.40	93961 *	14.03	73005 *	15.50

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.: BF091224 SAS No.: BF091224 SDG NO.: BF091224

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

Lab File ID: BF139340.D Time Analyzed: 16:00

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	255169	11.41	122562	14.045	118595	15.515
UPPER LIMIT	510338	11.91	245124	14.545	237190	16.015
LOWER LIMIT	127584.5	10.91	61281	13.545	59297.5	15.015
EPA SAMPLE NO.						
01 PB163323BL	213202	11.40	141250	14.03	108988	15.51
02 BREAKER-2546-BASE	181154	11.40	95174	14.03	85325	15.50
03 282-COMPOSITE-1DL	176003	11.40	93961	14.03	73005	15.50

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.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163323BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BF091224

SAS No.: BF091224 SDG NO.: BF091224

Lab File ID: BF139341.D

Lab Sample ID: PB163323BL

Instrument ID: BNA_F

Date Extracted: 09/12/2024

Matrix: (soil/water) Solid

Date Analyzed: 09/12/2024

Level: (low/med) LOW

Time Analyzed: 16:00

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BREAKER-2546-BASE	P3949-01	BF139342.D	09/12/2024

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: **BF091224**

Client: _____

Analytical Method: **8270E**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3912-01DL	282-COMPOSITE- BF139343.D		2-Fluorophenol	150	56.50	38		10	139
			Phenol-d6	150	41.68	28		10	134
			Nitrobenzene-d5	100	46.37	46	*	49	133
			2-Fluorobiphenyl	100	47.28	47	*	52	132
			2,4,6-Tribromophenol	150	92.05	61		44	137
			Terphenyl-d14	100	60.53	61		48	125

Surrogate Summary

SW-846

SDG No.: **BF091224**

Client: _____

Analytical Method: **8270E**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3949-01	BREAKER-2546-BBF139342.D		2-Fluorophenol	150	59.05	39		18	112
			Phenol-d6	150	74.64	50		15	107
			Nitrobenzene-d5	100	66.38	66		18	107
			2-Fluorobiphenyl	100	71.46	71		20	109
			2,4,6-Tribromophenol	150	51.54	34		10	116
			Terphenyl-d14	100	76.42	76		10	105
PB163323BL	PB163323BL	BF139341.D	2-Fluorophenol	150	150.32	100		18	112
			Phenol-d6	150	144.87	97		15	107
			Nitrobenzene-d5	100	111.49	111	*	18	107
			2-Fluorobiphenyl	100	110.96	111	*	20	109
			2,4,6-Tribromophenol	150	179.72	120	*	10	116
			Terphenyl-d14	100	102.03	102		10	105

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BF091224

Lab Code: CHEM

SAS No.: BF091224

SDG NO.: BF091224

Lab File ID: BF139339.D

DFTPP Injection Date: 09/12/2024

Instrument ID: BNA_F

DFTPP Injection Time: 11:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	48.8
68	Less than 2.0% of mass 69	0.8 (2) 1
69	Mass 69 relative abundance	42.3
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	50.2
197	Less than 2.0% of mass 198	1.1
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	27.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.8
442	Greater than 50% of mass 198	87.8
443	15.0 - 24.0% of mass 442	16.9 (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	BF139340.D	09/12/2024	11:47
PB163323BL	PB163323BL	BF139341.D	09/12/2024	16:00
BREAKER-2546-BASE	P3949-01	BF139342.D	09/12/2024	16:48
282-COMPOSITE-1DL	P3912-01DL	BF139343.D	09/12/2024	17:17