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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG No.: BM090624

Instrument ID: BNA_M Calibration Date/Time: 9/6/2024 12: 15:01

Lab File ID: BM047458.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.688	0.702		2.035	
Pyridine	1.226	1.282		4.568	
2-Fluorophenol	1.161	1.159		-0.172	
Benzaldehyde	0.871	0.854		-1.952	
Aniline	1.303	1.378		5.756	
Phenol-d6	1.469	1.472		0.204	
Phenol	1.425	1.452		1.895	20.0
bis(2-Chloroethyl)ether	1.252	1.268		1.278	
2-Chlorophenol	1.216	1.226		0.822	
1,2-Dichlorobenzene	1.381	1.384		0.217	
1,3-Dichlorobenzene	1.470	1.474		0.272	
1,4-Dichlorobenzene	1.476	1.491		1.016	20.0
Benzyl Alcohol	1.087	1.125		3.496	
2-Methylphenol	0.962	0.997		3.638	
2,2-oxybis(1-Chloropropane)	2.214	2.257		1.942	
Acetophenone	0.476	0.482		1.261	
3+4-Methylphenols	1.281	1.325		3.435	
n-Nitroso-di-n-propylamine	0.911	0.936	0.050	2.744	
Nitrobenzene-d5	0.385	0.394		2.338	
Hexachloroethane	0.588	0.592		0.68	
Nitrobenzene	0.395	0.405		2.532	
Isophorone	0.674	0.693		2.819	
2-Nitrophenol	0.180	0.187		3.889	20.0
2,4-Dimethylphenol	0.205	0.213		3.902	
bis(2-Chloroethoxy)methane	0.414	0.427		3.14	
2,4-Dichlorophenol	0.294	0.305		3.741	20.0
1,2,4-Trichlorobenzene	0.340	0.346		1.765	
Benzoic acid	0.197	0.216		9.645	
Naphthalene	1.014	1.016		0.197	
4-Chloroaniline	0.346	0.361		4.335	
Hexachlorobutadiene	0.220	0.222		0.909	20.0
Caprolactam	0.094	0.097		3.191	
4-Chloro-3-methylphenol	0.317	0.322		1.577	20.0
2-Methylnaphthalene	0.666	0.673		1.051	
Hexachlorocyclopentadiene	0.108	0.119	0.050	10.185	
2,4,6-Trichlorophenol	0.378	0.401		6.085	20.0
2-Fluorobiphenyl	1.292	1.316		1.858	
2,4,5-Trichlorophenol	0.409	0.435		6.357	
1,1-Biphenyl	1.423	1.461		2.67	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG No.: BM090624

Instrument ID: BNA_M Calibration Date/Time: 9/6/2024 12: 15:01

Lab File ID: BM047458.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.106	1.145		3.526	
2-Nitroaniline	0.376	0.400		6.383	
Dimethylphthalate	1.326	1.381		4.148	
Acenaphthylene	1.619	1.682		3.891	
2,6-Dinitrotoluene	0.310	0.328		5.806	
3-Nitroaniline	0.305	0.327		7.213	
Acenaphthene	1.025	1.048		2.244	20.0
2,4-Dinitrophenol	0.157	0.172	0.050	9.554	
4-Nitrophenol	0.250	0.133	0.050	-46.8	
Dibenzofuran	1.606	1.650		2.74	
2,4-Dinitrotoluene	0.404	0.430		6.436	
Diethylphthalate	1.342	1.390		3.577	
4-Chlorophenyl-phenylether	0.626	0.635		1.438	
Fluorene	1.275	1.301		2.039	
4-Nitroaniline	0.297	0.317		6.734	
4,6-Dinitro-2-methylphenol	0.109	0.123		12.844	
n-Nitrosodiphenylamine	0.547	0.566		3.473	20.0
Azobenzene	1.307	1.353		3.52	
2,4,6-Tribromophenol	0.218	0.230		5.505	
4-Bromophenyl-phenylether	0.197	0.203		3.046	
Hexachlorobenzene	0.228	0.233		2.193	
Atrazine	0.133	0.151		13.534	
Pentachlorophenol	0.129	0.140		8.527	20.0
Phenanthrene	0.963	0.978		1.558	
Anthracene	0.950	0.979		3.053	
Carbazole	0.946	0.974		2.96	
Di-n-butylphthalate	1.146	1.176		2.618	
Fluoranthene	1.142	1.145		0.263	20.0
Benzidine	0.416	0.593		42.548	
Pyrene	1.429	1.483		3.779	
Terphenyl-d14	1.008	1.032		2.381	
Butylbenzylphthalate	0.609	0.635		4.269	
3,3-Dichlorobenzidine	0.450	0.473		5.111	
Benzo(a)anthracene	1.272	1.318		3.616	
Chrysene	1.248	1.271		1.843	
Bis(2-ethylhexyl)phthalate	0.853	0.885		3.751	
Di-n-octyl phthalate	1.502	1.555		3.529	20.0
Benzo(b)fluoranthene	1.093	1.121		2.562	
Benzo(k)fluoranthene	1.098	1.123		2.277	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG No.: BM090624

Instrument ID: BNA_M Calibration Date/Time: 9/6/2024 12: 15:01

Lab File ID: BM047458.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	0.997	1.024		2.708	20.0
Indeno(1,2,3-cd)pyrene	1.294	1.325		2.396	
Dibenzo(a,h)anthracene	1.050	1.078		2.667	
Benzo(g,h,i)perylene	1.107	1.140		2.981	
1,2,4,5-Tetrachlorobenzene	0.592	0.617		4.223	
1,4-Dioxane	0.490	0.483		-1.429	20.0
2,3,4,6-Tetrachlorophenol	0.330	0.349		5.758	
1-Methylnaphthalene	0.659	0.662		0.455	

All other compounds must meet a minimum RRF of 0.010.

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

Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBM090624		SDG No.:	BM090624	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% Moisture:	100	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	1000000	uL
Soil Aliquot Vol:		uL	Test:		
Extraction Type :		Decanted :	Level :	LOW	
Injection Volume :		GPC Factor :	GPC Cleanup :		PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047462.D	1		9/6/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	39800		1000	8000	10000	ug/L
110-86-1	Pyridine	40000		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	43400		4000	8000	10000	ug/L
62-53-3	Aniline	40400		1600	4000	5000	ug/L
108-95-2	Phenol	39800		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	38300		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	38900		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	38200		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	38500		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	38600		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	40400		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	40700		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39100		1400	4000	5000	ug/L
98-86-2	Acetophenone	38700		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	40700		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40100		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	38500		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	39800		1300	4000	5000	ug/L
78-59-1	Isophorone	39700		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	40400		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	40400		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39800		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	39700		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39100		1100	4000	5000	ug/L
65-85-0	Benzoic acid	44000		5500	8000	10000	ug/L
91-20-3	Naphthalene	38400		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	41000		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	38700		1300	4000	5000	ug/L

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

Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBM090624		SDG No.:	BM090624	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% Moisture:	100	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	1000000	uL
Soil Aliquot Vol:		uL	Test:		
Extraction Type :		Decanted :	Level :	LOW	
Injection Volume :		GPC Factor :	GPC Cleanup :		PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047462.D	1		9/6/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	41600		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	40000		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	39200		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	38500		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	39700		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	40600		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	39000		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	39000		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	40900		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39600		930	4000	5000	ug/L
208-96-8	Acenaphthylene	39100		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	40500		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	41700		1400	4000	5000	ug/L
83-32-9	Acenaphthene	38800		810	4000	5000	ug/L
Total PAH	Total PAH	625000		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	39500		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	22900		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	39000		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	40400		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	80900		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	39200		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38300		980	4000	5000	ug/L
86-73-7	Fluorene	38600		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	41500		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	43500		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	39200		890	4000	5000	ug/L
103-33-3	Azobenzene	39600		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	39500		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	39300		1100	4000	5000	ug/L
1912-24-9	Atrazine	45700		1300	4000	5000	ug/L

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

Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM090624			SDG No.:	BM090624
Lab Sample ID:	SSTDICV040			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047462.D	1		9/6/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	42800		1900	8000	10000	ug/L
85-01-8	Phenanthrene	38900		890	4000	5000	ug/L
120-12-7	Anthracene	39500		1100	4000	5000	ug/L
86-74-8	Carbazole	39600		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	38800		1500	4000	5000	ug/L
206-44-0	Fluoranthene	38900		1300	4000	5000	ug/L
92-87-5	Benzidine	41600		4100	8000	10000	ug/L
129-00-0	Pyrene	39400		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	39100		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	39400		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	38900		940	4000	5000	ug/L
218-01-9	Chrysene	38700		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	38500		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	38800		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	38700		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	39600		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	39400		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	39400		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	39200		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	39500		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	38800		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	37900		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40900		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	38600		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	76156	*	10-139		50771	SPK: -150
13127-88-3	Phenol-d6	78480	*	10-134		52320	SPK: -150
4165-60-0	Nitrobenzene-d5	78906	*	49-133		78906	SPK: -100
321-60-8	2-Fluorobiphenyl	77406	*	52-132		77406	SPK: -100

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

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBM090624			SDG No.:	BM090624		
Lab Sample ID:	SSTDICV040			Matrix:	Water		
Analytical Method:	8270E			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000		uL
Soil Aliquot Vol:			uL	Test:			
Extraction Type :			Decanted :	Level :	LOW		
Injection Volume :			GPC Factor :	GPC Cleanup :		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047462.D	1		9/6/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	79927	*	44-137		53285	SPK: -150
1718-51-0	Terphenyl-d14	77523	*	48-125		77523	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	244621	7.334				
1146-65-2	Naphthalene-d8	921648	10.092				
15067-26-2	Acenaphthene-d10	554158	13.998				
1517-22-2	Phenanthrene-d10	1085301	16.768				
1719-03-5	Chrysene-d12	891274	21.021				
1520-96-3	Perylene-d12	1050508	23.727				

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

Report of Analysis

Client:				Date Collected:	9/6/2024 12:00:00 AM
Project:				Date Received:	9/6/2024 12:00:00 AM
Client Sample ID:	PB163179BL			SDG No.:	BM090624
Lab Sample ID:	PB163179BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047463.D	1	9/6/2024 12:00:00 AM	9/6/2024 12:00:00 AM	PB163179

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

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

Report of Analysis

Client:				Date Collected:	9/6/2024 12:00:00 AM
Project:				Date Received:	9/6/2024 12:00:00 AM
Client Sample ID:	PB163179BL			SDG No.:	BM090624
Lab Sample ID:	PB163179BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047463.D	1	9/6/2024 12:00:00 AM	9/6/2024 12:00:00 AM	PB163179

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	86.7	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74	U	74	130	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	130	170	ug/Kg
208-96-8	Acenaphthylene	86.4	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	81	U	81	130	170	ug/Kg
Total PAH	Total PAH	1323.5	U	1323.5	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture	169.2	U	169.2	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	80	U	80	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	130	170	ug/Kg
103-33-3	Azobenzene	79.5	U	79.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	130	170	ug/Kg

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

Report of Analysis

Client:				Date Collected:	9/6/2024 12:00:00 AM
Project:				Date Received:	9/6/2024 12:00:00 AM
Client Sample ID:	PB163179BL			SDG No.:	BM090624
Lab Sample ID:	PB163179BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047463.D	1	9/6/2024 12:00:00 AM	9/6/2024 12:00:00 AM	PB163179

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	77.2	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	130	170	ug/Kg
92-87-5	Benzidine	160	U	160	270	330	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81	U	81	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78	U	78	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80	U	80	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.1	U	83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	136.999		18-112	91		SPK: -150
13127-88-3	Phenol-d6	136.483		15-107	91		SPK: -150
4165-60-0	Nitrobenzene-d5	95.327		18-107	95		SPK: -100
321-60-8	2-Fluorobiphenyl	92.406		20-109	92		SPK: -100

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

Report of Analysis

Client:				Date Collected:	9/6/2024 12:00:00 AM
Project:				Date Received:	9/6/2024 12:00:00 AM
Client Sample ID:	PB163179BL			SDG No.:	BM090624
Lab Sample ID:	PB163179BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047463.D	1	9/6/2024 12:00:00 AM	9/6/2024 12:00:00 AM	PB163179

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	132.283		10-116		88	SPK: -150
1718-51-0	Terphenyl-d14	93.409		10-105		93	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	226889	7.34				
1146-65-2	Naphthalene-d8	830958	10.098				
15067-26-2	Acenaphthene-d10	491342	14.004				
1517-22-2	Phenanthrene-d10	902658	16.786				
1719-03-5	Chrysene-d12	722678	21.027				
1520-96-3	Perylene-d12	824687	23.739				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	A			4.552	

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

Hit Summary Sheet
SW-846

SDG No.: BM090624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBM090624**							
SSTDICV040	ICVBM090624	Water	1,1-Biphenyl	39,000.000		910	5000	ug/L
SSTDICV040	ICVBM090624	Water	1,2,4,5-Tetrachlorobenzene	38,800.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	1,2,4-Trichlorobenzene	39,100.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	1,2-Dichlorobenzene	38,200.000		880	5000	ug/L
SSTDICV040	ICVBM090624	Water	1,3-Dichlorobenzene	38,500.000		800	5000	ug/L
SSTDICV040	ICVBM090624	Water	1,4-Dichlorobenzene	38,600.000		840	5000	ug/L
SSTDICV040	ICVBM090624	Water	1,4-Dioxane	37,900.000		1300	5000	ug/L
SSTDICV040	ICVBM090624	Water	1-Methylnaphthalene	38,600.000		860	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,2-oxybis(1-Chloropropane)	39,100.000		1400	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,3,4,6-Tetrachlorophenol	40,900.000		790	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,4,5-Trichlorophenol	40,600.000		1000	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,4,6-Trichlorophenol	39,700.000		890	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,4-Dichlorophenol	39,700.000		880	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,4-Dimethylphenol	40,400.000		1500	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,4-Dinitrophenol	39,500.000		6400	10000	ug/L
SSTDICV040	ICVBM090624	Water	2,4-Dinitrotoluene	40,400.000		1500	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,6-Dinitrotoluene	40,500.000		1200	5000	ug/L
SSTDICV040	ICVBM090624	Water	2-Chloronaphthalene	39,000.000		970	5000	ug/L
SSTDICV040	ICVBM090624	Water	2-Chlorophenol	38,900.000		710	5000	ug/L
SSTDICV040	ICVBM090624	Water	2-Methylnaphthalene	39,200.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	2-Methylphenol	40,700.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	2-Nitroaniline	40,900.000		1400	5000	ug/L
SSTDICV040	ICVBM090624	Water	2-Nitrophenol	40,400.000		2000	5000	ug/L
SSTDICV040	ICVBM090624	Water	3+4-Methylphenols	40,700.000		1200	10000	ug/L
SSTDICV040	ICVBM090624	Water	3,3-Dichlorobenzidine	39,400.000		1300	10000	ug/L
SSTDICV040	ICVBM090624	Water	3-Nitroaniline	41,700.000		1400	5000	ug/L
SSTDICV040	ICVBM090624	Water	4,6-Dinitro-2-methylphenol	43,500.000		3100	10000	ug/L
SSTDICV040	ICVBM090624	Water	4-Bromophenyl-phenylether	39,500.000		950	5000	ug/L
SSTDICV040	ICVBM090624	Water	4-Chloro-3-methylphenol	40,000.000		840	5000	ug/L
SSTDICV040	ICVBM090624	Water	4-Chloroaniline	41,000.000		1300	5000	ug/L
SSTDICV040	ICVBM090624	Water	4-Chlorophenyl-phenylether	38,300.000		980	5000	ug/L
SSTDICV040	ICVBM090624	Water	4-Nitroaniline	41,500.000		2000	5000	ug/L
SSTDICV040	ICVBM090624	Water	4-Nitrophenol	22,900.000		2000	10000	ug/L
SSTDICV040	ICVBM090624	Water	Acenaphthene	38,800.000		810	5000	ug/L
SSTDICV040	ICVBM090624	Water	Acenaphthylene	39,100.000		1000	5000	ug/L
SSTDICV040	ICVBM090624	Water	Acetophenone	38,700.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	Aniline	40,400.000		1600	5000	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: BM090624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM090624	Water	Anthracene	39,500.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	Atrazine	45,700.000		1300	5000	ug/L
SSTDICV040	ICVBM090624	Water	Azobenzene	39,600.000		1200	5000	ug/L
SSTDICV040	ICVBM090624	Water	Benzaldehyde	43,400.000		4000	10000	ug/L
SSTDICV040	ICVBM090624	Water	Benzidine	41,600.000		4100	10000	ug/L
SSTDICV040	ICVBM090624	Water	Benzo(a)anthracene	38,900.000		940	5000	ug/L
SSTDICV040	ICVBM090624	Water	Benzo(a)pyrene	39,400.000		1700	5000	ug/L
SSTDICV040	ICVBM090624	Water	Benzo(b)fluoranthene	38,700.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	Benzo(g,h,i)perylene	39,500.000		1200	5000	ug/L
SSTDICV040	ICVBM090624	Water	Benzo(k)fluoranthene	39,600.000		1200	5000	ug/L
SSTDICV040	ICVBM090624	Water	Benzoic acid	44,000.000		5500	10000	ug/L
SSTDICV040	ICVBM090624	Water	Benzyl Alcohol	40,400.000		1600	10000	ug/L
SSTDICV040	ICVBM090624	Water	bis(2-Chloroethoxy)methane	39,800.000		1000	5000	ug/L
SSTDICV040	ICVBM090624	Water	bis(2-Chloroethyl)ether	38,300.000		1200	5000	ug/L
SSTDICV040	ICVBM090624	Water	Bis(2-ethylhexyl)phthalate	38,500.000		1900	5000	ug/L
SSTDICV040	ICVBM090624	Water	Butylbenzylphthalate	39,100.000		2100	5000	ug/L
SSTDICV040	ICVBM090624	Water	Caprolactam	41,600.000		1700	10000	ug/L
SSTDICV040	ICVBM090624	Water	Carbazole	39,600.000		1200	5000	ug/L
SSTDICV040	ICVBM090624	Water	Chrysene	38,700.000		860	5000	ug/L
SSTDICV040	ICVBM090624	Water	Di-n-butylphthalate	38,800.000		1500	5000	ug/L
SSTDICV040	ICVBM090624	Water	Di-n-octyl phthalate	38,800.000		2500	10000	ug/L
SSTDICV040	ICVBM090624	Water	Dibenzo(a,h)anthracene	39,200.000		1200	5000	ug/L
SSTDICV040	ICVBM090624	Water	Dibenzofuran	39,000.000		930	5000	ug/L
SSTDICV040	ICVBM090624	Water	Diethylphthalate	39,200.000		1000	5000	ug/L
SSTDICV040	ICVBM090624	Water	Dimethylphthalate	39,600.000		930	5000	ug/L
SSTDICV040	ICVBM090624	Water	Fluoranthene	38,900.000		1300	5000	ug/L
SSTDICV040	ICVBM090624	Water	Fluorene	38,600.000		960	5000	ug/L
SSTDICV040	ICVBM090624	Water	Hexachlorobenzene	39,300.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	Hexachlorobutadiene	38,700.000		1300	5000	ug/L
SSTDICV040	ICVBM090624	Water	Hexachlorocyclopentadiene	38,500.000		5000	10000	ug/L
SSTDICV040	ICVBM090624	Water	Hexachloroethane	38,500.000		1000	5000	ug/L
SSTDICV040	ICVBM090624	Water	Indeno(1,2,3-cd)pyrene	39,400.000		1000	5000	ug/L
SSTDICV040	ICVBM090624	Water	Isophorone	39,700.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	n-Nitroso-di-n-propylamine	40,100.000		1500	2500	ug/L
SSTDICV040	ICVBM090624	Water	n-Nitrosodimethylamine	39,800.000		1000	10000	ug/L
SSTDICV040	ICVBM090624	Water	n-Nitrosodiphenylamine	39,200.000		890	5000	ug/L
SSTDICV040	ICVBM090624	Water	Naphthalene	38,400.000		1000	5000	ug/L
SSTDICV040	ICVBM090624	Water	Nitrobenzene	39,800.000		1300	5000	ug/L
SSTDICV040	ICVBM090624	Water	Pentachlorophenol	42,800.000		1900	10000	ug/L
SSTDICV040	ICVBM090624	Water	Phenanthrene	38,900.000		890	5000	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: BM090624

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM090624	Water	Phenol	39,800.000		930	5000	ug/L
SSTDICV040	ICVBM090624	Water	Pyrene	39,400.000		1100	5000	ug/L
SSTDICV040	ICVBM090624	Water	Pyridine	40,000.000		1600	5000	ug/L
SSTDICV040	ICVBM090624	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	80,900.000		2700	10000	ug/L
SSTDICV040	ICVBM090624	Water	Total PAH	625,000.000		17360	80000	ug/L
			Total Svoc :	**3,870,300.00**				
			Total Concentration:	**3,870,300.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG No.: BM090624

Instrument ID: Calibration Date(s): 9/6/2024 1:

Calibration Time(s): 12:22

LAB FILE ID: RRF2.5 = BM047454.D RRF005 = BM047455.D RRF010 = BM047456.D
RRF020 = BM047457.D RRF040 = BM047458.D RRF050 = BM047459.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.653	0.692	0.710	0.702	0.668	0.688	2.9
Pyridine		1.177	1.227	1.292	1.282	1.187	1.226	3.7
2-Fluorophenol		1.212	1.218	1.214	1.159	1.099	1.161	4.7
Benzaldehyde		1.059	1.001	0.976	0.854	0.784	0.871	16.6
Aniline		1.353	1.349	1.380	1.378	1.251	1.303	6.3
Phenol-d6		1.525	1.531	1.525	1.472	1.395	1.469	4.0
Phenol		1.414	1.450	1.487	1.452	1.372	1.425	2.8
bis(2-Chloroethyl)ether		1.320	1.288	1.295	1.268	1.188	1.252	4.3
2-Chlorophenol		1.271	1.282	1.276	1.226	1.150	1.216	5.2
1,2-Dichlorobenzene		1.531	1.459	1.446	1.384	1.283	1.381	7.4
1,3-Dichlorobenzene		1.613	1.533	1.510	1.474	1.383	1.470	6.1
1,4-Dichlorobenzene		1.579	1.531	1.542	1.491	1.393	1.476	5.5
Benzyl Alcohol		1.071	1.063	1.124	1.125	1.069	1.087	2.4
2-Methylphenol		0.963	0.955	1.002	0.997	0.935	0.962	3.0
2,2-oxybis(1-Chloropropane)		2.344	2.282	2.285	2.257	2.114	2.214	4.7
Acetophenone		0.491	0.492	0.501	0.482	0.452	0.476	4.2
3+4-Methylphenols		1.261	1.281	1.345	1.325	1.249	1.281	3.0
n-Nitroso-di-n-propylamine	0.870	0.969	0.961	0.956	0.936	0.874	0.911	5.3
Nitrobenzene-d5		0.389	0.391	0.404	0.394	0.370	0.385	3.5
Hexachloroethane		0.624	0.607	0.610	0.592	0.560	0.588	4.7
Nitrobenzene		0.384	0.398	0.418	0.405	0.382	0.395	3.7
Isophorone		0.686	0.678	0.702	0.693	0.651	0.674	3.2
2-Nitrophenol		0.168	0.171	0.184	0.187	0.179	0.180	4.4
2,4-Dimethylphenol		0.206	0.197	0.210	0.213	0.200	0.205	2.8
bis(2-Chloroethoxy)methane		0.402	0.419	0.428	0.427	0.403	0.414	2.7
2,4-Dichlorophenol		0.277	0.287	0.306	0.305	0.286	0.294	3.7
1,2,4-Trichlorobenzene		0.344	0.342	0.353	0.346	0.329	0.340	2.8
Benzoic acid		0.143	0.150	0.205	0.216	0.212	0.197	18.0
Naphthalene		1.097	1.038	1.056	1.016	0.951	1.014	5.4
4-Chloroaniline		0.342	0.333	0.362	0.361	0.342	0.346	3.2
Hexachlorobutadiene		0.229	0.223	0.226	0.222	0.209	0.220	3.7
Caprolactam		0.092	0.089	0.095	0.097	0.094	0.094	3.1
4-Chloro-3-methylphenol		0.322	0.320	0.320	0.322	0.309	0.317	1.7
2-Methylnaphthalene		0.705	0.675	0.695	0.673	0.629	0.666	4.4
Hexachlorocyclopentadiene			0.046	0.083	0.119	0.120	0.108	34.1
2,4,6-Trichlorophenol		0.363	0.361	0.387	0.401	0.366	0.378	4.0

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG No.: BM090624

Instrument ID: Calibration Date(s): 9/6/2024 1:

Calibration Time(s): 12:22

LAB FILE ID: RRF2.5 = BM047454.D RRF005 = BM047455.D RRF010 = BM047456.D
RRF020 = BM047457.D RRF040 = BM047458.D RRF050 = BM047459.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.390	1.333	1.348	1.316	1.203	1.292	5.7
2,4,5-Trichlorophenol		0.356	0.392	0.423	0.435	0.403	0.409	6.7
1,1-Biphenyl		1.480	1.448	1.498	1.461	1.329	1.423	4.6
2-Chloronaphthalene		1.143	1.126	1.163	1.145	1.043	1.106	4.6
2-Nitroaniline		0.357	0.359	0.378	0.400	0.373	0.376	4.0
Dimethylphthalate		1.333	1.339	1.358	1.381	1.265	1.326	3.1
Acenaphthylene		1.675	1.636	1.697	1.682	1.523	1.619	4.5
2,6-Dinitrotoluene		0.293	0.305	0.312	0.328	0.305	0.310	3.5
3-Nitroaniline		0.269	0.286	0.314	0.327	0.311	0.305	6.7
Acenaphthene		1.087	1.046	1.069	1.048	0.955	1.025	5.0
2,4-Dinitrophenol			0.092	0.130	0.172	0.168	0.157	24.5
4-Nitrophenol			0.783	0.057	0.133	0.152	0.250	106.5
Dibenzofuran		1.696	1.648	1.673	1.650	1.499	1.606	5.0
2,4-Dinitrotoluene		0.370	0.397	0.416	0.430	0.402	0.404	4.6
Diethylphthalate		1.376	1.363	1.388	1.390	1.278	1.342	3.8
4-Chlorophenyl-phenylether		0.668	0.650	0.654	0.635	0.582	0.626	5.4
Fluorene		1.362	1.325	1.318	1.301	1.194	1.275	5.4
4-Nitroaniline		0.252	0.293	0.297	0.317	0.304	0.297	7.3
4,6-Dinitro-2-methylphenol		0.076	0.090	0.106	0.123	0.119	0.109	18.2
n-Nitrosodiphenylamine		0.573	0.549	0.572	0.566	0.518	0.547	4.5
Azobenzene		1.306	1.340	1.371	1.353	1.249	1.307	3.9
2,4,6-Tribromophenol		0.211	0.218	0.225	0.230	0.212	0.218	3.3
4-Bromophenyl-phenylether		0.203	0.194	0.203	0.203	0.188	0.197	3.4
Hexachlorobenzene		0.244	0.227	0.235	0.233	0.216	0.228	4.4
Atrazine		0.186	0.179	0.157	0.151	0.101	0.133	34.9
Pentachlorophenol		0.107	0.112	0.128	0.140	0.134	0.129	11.0
Phenanthrene		1.024	0.976	1.008	0.978	0.911	0.963	4.8
Anthracene		0.983	0.956	0.984	0.979	0.898	0.950	3.8
Carbazole		0.953	0.958	0.991	0.974	0.904	0.946	3.6
Di-n-butylphthalate		1.162	1.150	1.188	1.176	1.099	1.146	3.4
Fluoranthene		1.198	1.175	1.189	1.145	1.084	1.142	4.3
Benzidine		0.325	0.306	0.374	0.593	0.430	0.416	23.1
Pyrene		1.456	1.383	1.451	1.483	1.399	1.429	2.5
Terphenyl-d14		1.059	1.005	1.019	1.032	0.972	1.008	3.1
Butylbenzylphthalate		0.576	0.593	0.620	0.635	0.608	0.609	3.3
3,3-Dichlorobenzidine		0.438	0.450	0.472	0.473	0.438	0.450	3.7

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG No.: BM090624

Instrument ID: Calibration Date(s): 9/6/2024 1:

Calibration Time(s): 12:22

LAB FILE ID: RRF2.5 = BM047454.D RRF005 = BM047455.D RRF010 = BM047456.D
RRF020 = BM047457.D RRF040 = BM047458.D RRF050 = BM047459.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.287	1.267	1.307	1.318	1.228	1.272	2.7
Chrysene		1.329	1.273	1.273	1.271	1.190	1.248	4.3
Bis(2-ethylhexyl)phthalate		0.834	0.855	0.882	0.885	0.825	0.853	3.1
Di-n-octyl phthalate		1.415	1.495	1.553	1.555	1.466	1.502	3.6
Benzo(b)fluoranthene		1.106	1.120	1.118	1.121	1.047	1.093	3.0
Benzo(k)fluoranthene		1.211	1.099	1.169	1.123	1.021	1.098	6.9
Benzo(a)pyrene		1.025	0.994	1.035	1.024	0.953	0.997	3.4
Indeno(1,2,3-cd)pyrene		1.345	1.300	1.337	1.325	1.236	1.294	3.6
Dibenzo(a,h)anthracene		1.076	1.065	1.096	1.078	1.003	1.050	3.6
Benzo(g,h,i)perylene		1.119	1.091	1.141	1.140	1.075	1.107	2.5
1,2,4,5-Tetrachlorobenzene		0.599	0.577	0.619	0.617	0.569	0.592	3.6
1,4-Dioxane		0.536	0.496	0.512	0.483	0.459	0.490	5.5
2,3,4,6-Tetrachlorophenol		0.318	0.318	0.338	0.349	0.325	0.330	3.5
1-Methylnaphthalene		0.703	0.675	0.689	0.662	0.623	0.659	4.9

All other compounds must meet a minimum RRF of 0.010.

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.: BM090624 SAS No.: BM090624 SDG NO.: BM090624

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

Lab File ID: BM047458.D Time Analyzed: 19:01

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	209869	7.334	782228	10.09	457877	14.00
	UPPER LIMIT	419738	7.834	1564456	10.592	915754	14.504
	LOWER LIMIT	104934.5	6.834	391114	9.592	228938.5	13.504
	EPA SAMPLE NO.						
01	ICVBM090624	244621	7.33	921648	10.09	554158	14.00
02	PB163179BL	226889	7.34	830958	10.10	491342	14.00

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.: BM090624 SAS No.: BM090624 SDG NO.: BM090624

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

Lab File ID: BM047458.D Time Analyzed: 19:01

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	209869	7.334	782228	10.09	457877	14.00
	UPPER LIMIT	419738	7.834	1564456	10.592	915754	14.504
	LOWER LIMIT	104934.5	6.834	391114	9.592	228938.5	13.504
	EPA SAMPLE NO.						
01	ICVBM090624	244621	7.33	921648	10.09	554158	14.00
02	PB163179BL	226889	7.34	830958	10.10	491342	14.00

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG NO.: BM090624

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

Lab File ID: BM047458.D Time Analyzed: 19:01

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	900326	16.774	729571	21.021	868876	23.733
	UPPER LIMIT	1800652	17.274	1459142	21.521	1737752	24.233
	LOWER LIMIT	450163	16.274	364785.5	20.521	434438	23.233
	EPA SAMPLE NO.						
01	ICVBM090624	1.0853e	16.77	891274	21.02	1.05051e+	23.73
02	PB163179BL	902658	16.79	722678	21.03	824687	23.74

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG NO.: BM090624

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

Lab File ID: BM047458.D Time Analyzed: 19:01

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	900326	16.774	729571	21.021	868876	23.733
	UPPER LIMIT	1800652	17.274	1459142	21.521	1737752	24.233
	LOWER LIMIT	450163	16.274	364785.5	20.521	434438	23.233
	EPA SAMPLE NO.						
01	ICVBM090624	1.0853e	16.77	891274	21.02	1.05051e+	23.73
02	PB163179BL	902658	16.79	722678	21.03	824687	23.74

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.

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBM090624

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG NO.: BM090624

Lab File ID: BM047462.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_M Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 09/06/2024

Level: (low/med) LOW Time Analyzed: 19:01

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBM090624	SSTDICV040	BM047462.D	09/06/2024

COMMENTS:

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163179BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM090624 SAS No.: BM090624 SDG NO.: BM090624

Lab File ID: BM047463.D Lab Sample ID: PB163179BL

Instrument ID: BNA_M Date Extracted: 09/06/2024

Matrix: (soil/water) Solid Date Analyzed: 09/06/2024

Level: (low/med) LOW Time Analyzed: 19:41

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

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

COMMENTS:

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

Surrogate Summary

SW-846

SDG No.: BM090624

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBM090624	BM047462.D	2-Fluorophenol	150	76,156.00	50771	*	10	139
			Phenol-d6	150	78,480.00	52320	*	10	134
			Nitrobenzene-d5	100	78,906.00	78906	*	49	133
			2-Fluorobiphenyl	100	77,406.00	77406	*	52	132
			2,4,6-Tribromophenol	150	79,927.00	53285	*	44	137
			Terphenyl-d14	100	77,523.00	77523	*	48	125

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

Surrogate Summary

SW-846

SDG No.: BM090624

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB163179BL	PB163179BL	BM047463.D	2-Fluorophenol	150	137.00	91		18	112
			Phenol-d6	150	136.48	91		15	107
			Nitrobenzene-d5	100	95.33	95		18	107
			2-Fluorobiphenyl	100	92.41	92		20	109
			2,4,6-Tribromophenol	150	132.28	88		10	116
			Terphenyl-d14	100	93.41	93		10	105

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM090624

Lab Code: CHEM SAS No.: BM090624 SDG NO.: BM090624

Lab File ID: BM047453.D DFTPP Injection Date: 09/06/2024

Instrument ID: BNA_M DFTPP Injection Time: 11:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.8
68	Less than 2.0% of mass 69	0.5 (1.4) 1
69	Mass 69 relative abundance	38.2
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	45.4
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	11.2
442	Greater than 50% of mass 198	71.3
443	15.0 - 24.0% of mass 442	13.8 (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
SSTDICC2.5	SSTDICC2.5	BM047454.D	09/06/2024	12:22
SSTDICC005	SSTDICC005	BM047455.D	09/06/2024	13:02
SSTDICC010	SSTDICC010	BM047456.D	09/06/2024	13:41
SSTDICC020	SSTDICC020	BM047457.D	09/06/2024	14:21
SSTDICCC040	SSTDICCC040	BM047458.D	09/06/2024	15:01
SSTDICC050	SSTDICC050	BM047459.D	09/06/2024	15:41
SSTDICC060	SSTDICC060	BM047460.D	09/06/2024	16:21
SSTDICC080	SSTDICC080	BM047461.D	09/06/2024	17:01
ICVBM090624	SSTDICV040	BM047462.D	09/06/2024	19:01
PB163179BL	PB163179BL	BM047463.D	09/06/2024	19:41