CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY
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.: BM052224 SAS No.: BM052224 SDG No.: BM052224

Instrument ID: BNA_M Calibration Date/Time: 5/22/2024 12 14:02

Lab File ID: BM045742.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	0.719	0.725		0.834	
Pyridine	1.275	1.336		4.784	
2-Fluorophenol	1.122	1.126		0.357	
Benzaldehyde	0.917	0.893		-2.617	
Aniline	1.440	1.475		2.431	
Phenol-d6	1.506	1.502		-0.266	
Phenol	1.522	1.501		-1.38	20.0
bis(2-Chloroethyl)ether	1.319	1.312		-0.531	
2-Chlorophenol	1.229	1.250		1.709	
1,2-Dichlorobenzene	1.380	1.375		-0.362	
1,3-Dichlorobenzene	1.464	1.469		0.342	
1,4-Dichlorobenzene	1.477	1.484		0.474	20.0
Benzyl Alcohol	1.176	1.200		2.041	
2-Methylphenol	1.055	1.085		2.844	
2,2-oxybis(1-Chloropropane)	2.047	2.101		2.638	
Acetophenone	0.463	0.461		-0.432	
3+4-Methylphenols	1.405	1.429		1.708	
n-Nitroso-di-n-propylamine	1.059	1.066	0.050	0.661	
Nitrobenzene-d5	0.368	0.378		2.717	
Hexachloroethane	0.573	0.586		2.269	
Nitrobenzene	0.374	0.388		3.743	
Isophorone	0.684	0.707		3.363	
2-Nitrophenol	0.149	0.162		8.725	20.0
2,4-Dimethylphenol	0.209	0.216		3.349	
bis(2-Chloroethoxy)methane	0.421	0.429		1.9	
2,4-Dichlorophenol	0.285	0.300		5.263	20.0
1,2,4-Trichlorobenzene	0.323	0.328		1.548	
Benzoic acid	0.178	0.183		2.809	
Naphthalene	0.991	0.996		0.505	
4-Chloroaniline	0.378	0.390		3.175	
Hexachlorobutadiene	0.198	0.200		1.01	20.0
Caprolactam	0.092	0.100		8.696	
4-Chloro-3-methylphenol	0.325	0.337		3.692	20.0
2-Methylnaphthalene	0.690	0.692		0.29	
Hexachlorocyclopentadiene	0.216	0.225	0.050	4.167	
2,4,6-Trichlorophenol	0.348	0.367		5.46	20.0
2-Fluorobiphenyl	1.244	1.249		0.402	
2,4,5-Trichlorophenol	0.387	0.405		4.651	
1,1-Biphenyl	1.348	1.353		0.371	

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Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG No.: BM052224

Instrument ID: BNA_M Calibration Date/Time: 5/22/2024 12 14:02

Lab File ID: BM045742.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	1.055	1.049		-0.569	
2-Nitroaniline	0.333	0.365		9.61	
Dimethylphthalate	1.353	1.387		2.513	
Acenaphthylene	1.600	1.627		1.687	
2,6-Dinitrotoluene	0.290	0.309		6.552	
3-Nitroaniline	0.296	0.322		8.784	
Acenaphthene	1.003	1.016		1.296	20.0
2,4-Dinitrophenol	0.134	0.137	0.050	2.239	
4-Nitrophenol	0.252	0.264	0.050	4.762	
Dibenzofuran	1.581	1.584		0.19	
2,4-Dinitrotoluene	0.386	0.422		9.326	
Diethylphthalate	1.414	1.456		2.97	
4-Chlorophenyl-phenylether	0.632	0.632		0.0	
Fluorene	1.292	1.303		0.851	
4-Nitroaniline	0.294	0.324		10.204	
4,6-Dinitro-2-methylphenol	0.092	0.098		6.522	
n-Nitrosodiphenylamine	0.512	0.521		1.758	20.0
Azobenzene	1.370	1.398		2.044	
2,4,6-Tribromophenol	0.212	0.225		6.132	
4-Bromophenyl-phenylether	0.190	0.195		2.632	
Hexachlorobenzene	0.226	0.232		2.655	
Atrazine	0.156	0.159		1.923	
Pentachlorophenol	0.138	0.149		7.971	20.0
Phenanthrene	0.944	0.958		1.483	
Anthracene	0.928	0.952		2.586	
Carbazole	0.929	0.952		2.476	
Di-n-butylphthalate	1.153	1.213		5.204	
Fluoranthene	1.151	1.172		1.825	20.0
Benzidine	0.342	0.467		36.55	
Pyrene	1.411	1.484		5.174	
Terphenyl-d14	1.087	1.145		5.336	
Butylbenzylphthalate	0.611	0.672		9.984	
3,3-Dichlorobenzidine	0.437	0.471		7.78	
Benzo(a)anthracene	1.274	1.307		2.59	
Chrysene	1.195	1.215		1.674	
Bis(2-ethylhexyl)phthalate	0.858	0.912		6.294	
Di-n-octyl phthalate	1.497	1.589		6.146	20.0
Benzo(b)fluoranthene	1.134	1.160		2.293	
Benzo(k)fluoranthene	1.077	1.088		1.021	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG No.: BM052224

Instrument ID: BNA_M Calibration Date/Time: 5/22/2024 12 14:02

Lab File ID: BM045742.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	0.986	1.017		3.144	20.0
Indeno(1,2,3-cd)pyrene	1.151	1.184		2.867	
Dibenzo(a,h)anthracene	0.953	0.982		3.043	
Benzo(g,h,i)perylene	0.989	1.012		2.326	
1,2,4,5-Tetrachlorobenzene	0.516	0.525		1.744	
1,4-Dioxane	0.466	0.464		-0.429	20.0
2,3,4,6-Tetrachlorophenol	0.322	0.340		5.59	
1-Methylnaphthalene	0.681	0.684		0.441	

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM052224			SDG No.:	BM052224
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
BM045746.D	1		5/22/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	40700		1000	8000	10000	ug/L
110-86-1	Pyridine	41200		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	39400		4000	8000	10000	ug/L
62-53-3	Aniline	41200		1600	4000	5000	ug/L
108-95-2	Phenol	39400		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	39700		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	40300		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39700		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	40100		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	40400		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	40600		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	41500		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	40300		1400	4000	5000	ug/L
98-86-2	Acetophenone	39900		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	40600		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39700		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	40300		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	42000		1300	4000	5000	ug/L
78-59-1	Isophorone	41200		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	41700		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	41400		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40700		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	42700		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	41400		1100	4000	5000	ug/L
65-85-0	Benzoic acid	41700		5500	8000	10000	ug/L
91-20-3	Naphthalene	40400		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	41600		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	40900		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM052224			SDG No.:	BM052224
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
BM045746.D	1		5/22/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	43200		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	42000		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	40300		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	41200		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	43000		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	42700		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	40200		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	40000		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	45200		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	41000		930	4000	5000	ug/L
208-96-8	Acenaphthylene	40400		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	43900		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	44600		1400	4000	5000	ug/L
83-32-9	Acenaphthene	40300		810	4000	5000	ug/L
Total PAH	Total PAH	651500		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	42400		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	44200		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	40200		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	44500		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	88400		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	41500		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40700		980	4000	5000	ug/L
86-73-7	Fluorene	40600		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	45100		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	42500		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	40300		890	4000	5000	ug/L
103-33-3	Azobenzene	40500		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	41000		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	40800		1100	4000	5000	ug/L
1912-24-9	Atrazine	40500		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM052224			SDG No.:	BM052224
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
BM045746.D	1		5/22/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	44900		1900	8000	10000	ug/L
85-01-8	Phenanthrene	40000		890	4000	5000	ug/L
120-12-7	Anthracene	40500		1100	4000	5000	ug/L
86-74-8	Carbazole	40500		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	41400		1500	4000	5000	ug/L
206-44-0	Fluoranthene	40500		1300	4000	5000	ug/L
92-87-5	Benzidine	57100		4100	8000	10000	ug/L
129-00-0	Pyrene	41600		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	42900		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	43500		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	40700		940	4000	5000	ug/L
218-01-9	Chrysene	40800		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	41600		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	42100		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	40800		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	39900		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	41100		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41300		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	41500		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	41100		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40900		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	39800		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43200		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	40500		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	79909	*	10-139		53273	SPK: -150
13127-88-3	Phenol-d6	79231	*	10-134		52821	SPK: -150
4165-60-0	Nitrobenzene-d5	83610	*	49-133		83610	SPK: -100
321-60-8	2-Fluorobiphenyl	80297	*	52-132		80297	SPK: -100

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBM052224			SDG No.:	BM052224
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
BM045746.D	1		5/22/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	86471	*	32-145		57647	SPK: -150
1718-51-0	Terphenyl-d14	82543	*	36-145		82543	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	321883	7.569				
1146-65-2	Naphthalene-d8	1381606	10.334				
15067-26-2	Acenaphthene-d10	912753	14.198				
1517-22-2	Phenanthrene-d10	1967011	16.945				
1719-03-5	Chrysene-d12	1625699	21.168				
1520-96-3	Perylene-d12	1934287	23.962				

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Report of Analysis

Client:				Date Collected:	5/17/2024 12:00:00 AM
Project:				Date Received:	5/17/2024 12:00:00 AM
Client Sample ID:	PB160974BL			SDG No.:	BM052224
Lab Sample ID:	PB160974BL			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
BM045747.D	1	5/17/2024 12:00:00 AM	5/22/2024 12:00:00 AM	PB160974

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

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Report of Analysis

Client:				Date Collected:	5/17/2024 12:00:00 AM
Project:				Date Received:	5/17/2024 12:00:00 AM
Client Sample ID:	PB160974BL			SDG No.:	BM052224
Lab Sample ID:	PB160974BL			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
BM045747.D	1	5/17/2024 12:00:00 AM	5/22/2024 12:00:00 AM	PB160974

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

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Report of Analysis

Client:				Date Collected:	5/17/2024 12:00:00 AM
Project:				Date Received:	5/17/2024 12:00:00 AM
Client Sample ID:	PB160974BL			SDG No.:	BM052224
Lab Sample ID:	PB160974BL			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
BM045747.D	1	5/17/2024 12:00:00 AM	5/22/2024 12:00:00 AM	PB160974

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	150.343		18-112		100	SPK: -150
13127-88-3	Phenol-d6	141.537		15-107		94	SPK: -150
4165-60-0	Nitrobenzene-d5	94.353		18-107		94	SPK: -100
321-60-8	2-Fluorobiphenyl	89.196		20-109		89	SPK: -100

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Report of Analysis

Client:				Date Collected:	5/17/2024 12:00:00 AM
Project:				Date Received:	5/17/2024 12:00:00 AM
Client Sample ID:	PB160974BL			SDG No.:	BM052224
Lab Sample ID:	PB160974BL			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
BM045747.D	1	5/17/2024 12:00:00 AM	5/22/2024 12:00:00 AM	PB160974

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	137.481		10-110		92	SPK: -150
1718-51-0	Terphenyl-d14	84.595		14-112		85	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	283570	7.569				
1146-65-2	Naphthalene-d8	1119795	10.339				
15067-26-2	Acenaphthene-d10	708384	14.204				
1517-22-2	Phenanthrene-d10	1444035	16.945				
1719-03-5	Chrysene-d12	1272087	21.162				
1520-96-3	Perylene-d12	1440168	23.956				

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Hit Summary Sheet
SW-846

SDG No.: BM052224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBM052224**							
SSTDICV040	ICVBM052224	Water	1,1-Biphenyl	40,200.000		910	5000	ug/L
SSTDICV040	ICVBM052224	Water	1,2,4,5-Tetrachlorobenzene	40,900.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	1,2,4-Trichlorobenzene	41,400.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	1,2-Dichlorobenzene	39,700.000		880	5000	ug/L
SSTDICV040	ICVBM052224	Water	1,3-Dichlorobenzene	40,100.000		800	5000	ug/L
SSTDICV040	ICVBM052224	Water	1,4-Dichlorobenzene	40,400.000		840	5000	ug/L
SSTDICV040	ICVBM052224	Water	1,4-Dioxane	39,800.000		1300	5000	ug/L
SSTDICV040	ICVBM052224	Water	1-Methylnaphthalene	40,500.000		860	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,2-oxybis(1-Chloropropane)	40,300.000		1400	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,3,4,6-Tetrachlorophenol	43,200.000		790	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,4,5-Trichlorophenol	42,700.000		1000	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,4,6-Trichlorophenol	43,000.000		890	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,4-Dichlorophenol	42,700.000		880	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,4-Dimethylphenol	41,400.000		1500	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,4-Dinitrophenol	42,400.000		6400	10000	ug/L
SSTDICV040	ICVBM052224	Water	2,4-Dinitrotoluene	44,500.000		1500	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,6-Dinitrotoluene	43,900.000		1200	5000	ug/L
SSTDICV040	ICVBM052224	Water	2-Chloronaphthalene	40,000.000		970	5000	ug/L
SSTDICV040	ICVBM052224	Water	2-Chlorophenol	40,300.000		710	5000	ug/L
SSTDICV040	ICVBM052224	Water	2-Methylnaphthalene	40,300.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	2-Methylphenol	41,500.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	2-Nitroaniline	45,200.000		1400	5000	ug/L
SSTDICV040	ICVBM052224	Water	2-Nitrophenol	41,700.000		2000	5000	ug/L
SSTDICV040	ICVBM052224	Water	3+4-Methylphenols	40,600.000		1200	10000	ug/L
SSTDICV040	ICVBM052224	Water	3,3-Dichlorobenzidine	43,500.000		1300	10000	ug/L
SSTDICV040	ICVBM052224	Water	3-Nitroaniline	44,600.000		1400	5000	ug/L
SSTDICV040	ICVBM052224	Water	4,6-Dinitro-2-methylphenol	42,500.000		3100	10000	ug/L
SSTDICV040	ICVBM052224	Water	4-Bromophenyl-phenylether	41,000.000		950	5000	ug/L
SSTDICV040	ICVBM052224	Water	4-Chloro-3-methylphenol	42,000.000		840	5000	ug/L
SSTDICV040	ICVBM052224	Water	4-Chloroaniline	41,600.000		1300	5000	ug/L
SSTDICV040	ICVBM052224	Water	4-Chlorophenyl-phenylether	40,700.000		980	5000	ug/L
SSTDICV040	ICVBM052224	Water	4-Nitroaniline	45,100.000		2000	5000	ug/L
SSTDICV040	ICVBM052224	Water	4-Nitrophenol	44,200.000		2000	10000	ug/L
SSTDICV040	ICVBM052224	Water	Acenaphthene	40,300.000		810	5000	ug/L
SSTDICV040	ICVBM052224	Water	Acenaphthylene	40,400.000		1000	5000	ug/L
SSTDICV040	ICVBM052224	Water	Acetophenone	39,900.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	Aniline	41,200.000		1600	5000	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Hit Summary Sheet
SW-846

SDG No.: BM052224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM052224	Water	Anthracene	40,500.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	Atrazine	40,500.000		1300	5000	ug/L
SSTDICV040	ICVBM052224	Water	Azobenzene	40,500.000		1200	5000	ug/L
SSTDICV040	ICVBM052224	Water	Benzaldehyde	39,400.000		4000	10000	ug/L
SSTDICV040	ICVBM052224	Water	Benzidine	57,100.000		4100	10000	ug/L
SSTDICV040	ICVBM052224	Water	Benzo(a)anthracene	40,700.000		940	5000	ug/L
SSTDICV040	ICVBM052224	Water	Benzo(a)pyrene	41,100.000		1700	5000	ug/L
SSTDICV040	ICVBM052224	Water	Benzo(b)fluoranthene	40,800.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	Benzo(g,h,i)perylene	41,100.000		1200	5000	ug/L
SSTDICV040	ICVBM052224	Water	Benzo(k)fluoranthene	39,900.000		1200	5000	ug/L
SSTDICV040	ICVBM052224	Water	Benzoic acid	41,700.000		5500	10000	ug/L
SSTDICV040	ICVBM052224	Water	Benzyl Alcohol	40,600.000		1600	10000	ug/L
SSTDICV040	ICVBM052224	Water	bis(2-Chloroethoxy)methane	40,700.000		1000	5000	ug/L
SSTDICV040	ICVBM052224	Water	bis(2-Chloroethyl)ether	39,700.000		1200	5000	ug/L
SSTDICV040	ICVBM052224	Water	Bis(2-ethylhexyl)phthalate	41,600.000		1900	5000	ug/L
SSTDICV040	ICVBM052224	Water	Butylbenzylphthalate	42,900.000		2100	5000	ug/L
SSTDICV040	ICVBM052224	Water	Caprolactam	43,200.000		1700	10000	ug/L
SSTDICV040	ICVBM052224	Water	Carbazole	40,500.000		1200	5000	ug/L
SSTDICV040	ICVBM052224	Water	Chrysene	40,800.000		860	5000	ug/L
SSTDICV040	ICVBM052224	Water	Di-n-butylphthalate	41,400.000		1500	5000	ug/L
SSTDICV040	ICVBM052224	Water	Di-n-octyl phthalate	42,100.000		2500	10000	ug/L
SSTDICV040	ICVBM052224	Water	Dibenzo(a,h)anthracene	41,500.000		1200	5000	ug/L
SSTDICV040	ICVBM052224	Water	Dibenzofuran	40,200.000		930	5000	ug/L
SSTDICV040	ICVBM052224	Water	Diethylphthalate	41,500.000		1000	5000	ug/L
SSTDICV040	ICVBM052224	Water	Dimethylphthalate	41,000.000		930	5000	ug/L
SSTDICV040	ICVBM052224	Water	Fluoranthene	40,500.000		1300	5000	ug/L
SSTDICV040	ICVBM052224	Water	Fluorene	40,600.000		960	5000	ug/L
SSTDICV040	ICVBM052224	Water	Hexachlorobenzene	40,800.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	Hexachlorobutadiene	40,900.000		1300	5000	ug/L
SSTDICV040	ICVBM052224	Water	Hexachlorocyclopentadiene	41,200.000		5000	10000	ug/L
SSTDICV040	ICVBM052224	Water	Hexachloroethane	40,300.000		1000	5000	ug/L
SSTDICV040	ICVBM052224	Water	Indeno(1,2,3-cd)pyrene	41,300.000		1000	5000	ug/L
SSTDICV040	ICVBM052224	Water	Isophorone	41,200.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	n-Nitroso-di-n-propylamine	39,700.000		1500	2500	ug/L
SSTDICV040	ICVBM052224	Water	n-Nitrosodimethylamine	40,700.000		1000	10000	ug/L
SSTDICV040	ICVBM052224	Water	n-Nitrosodiphenylamine	40,300.000		890	5000	ug/L
SSTDICV040	ICVBM052224	Water	Naphthalene	40,400.000		1000	5000	ug/L
SSTDICV040	ICVBM052224	Water	Nitrobenzene	42,000.000		1300	5000	ug/L
SSTDICV040	ICVBM052224	Water	Pentachlorophenol	44,900.000		1900	10000	ug/L
SSTDICV040	ICVBM052224	Water	Phenanthrene	40,000.000		890	5000	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

Hit Summary Sheet
SW-846

SDG No.: BM052224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBM052224	Water	Phenol	39,400.000		930	5000	ug/L
SSTDICV040	ICVBM052224	Water	Pyrene	41,600.000		1100	5000	ug/L
SSTDICV040	ICVBM052224	Water	Pyridine	41,200.000		1600	5000	ug/L
SSTDICV040	ICVBM052224	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	88,400.000		2700	10000	ug/L
SSTDICV040	ICVBM052224	Water	Total PAH	651,500.000		17360	80000	ug/L
			Total Svoc :	**4,061,600.00**				
			Total Concentration:	**4,061,600.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG No.: BM052224

Instrument ID: Calibration Date(s): 5/22/2024

Calibration Time(s): 10:42

LAB FILE ID: RRF2.5 = BM045738.D RRF005 = BM045739.D RRF010 = BM045740.D
RRF020 = BM045741.D RRF040 = BM045742.D RRF050 = BM045743.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.710	0.717	0.749	0.725	0.704	0.719	2.0
Pyridine		1.193	1.272	1.323	1.336	1.280	1.275	4.0
2-Fluorophenol		1.181	1.135	1.198	1.126	1.072	1.122	4.8
Benzaldehyde			1.064	1.053	0.893	0.812	0.917	14.9
Aniline		1.493	1.464	1.554	1.475	1.387	1.440	5.5
Phenol-d6		1.559	1.543	1.615	1.502	1.439	1.506	4.6
Phenol		1.624	1.571	1.631	1.501	1.431	1.522	5.7
bis(2-Chloroethyl)ether		1.425	1.316	1.370	1.312	1.274	1.319	4.6
2-Chlorophenol		1.299	1.251	1.304	1.250	1.185	1.229	5.2
1,2-Dichlorobenzene		1.531	1.418	1.489	1.375	1.296	1.380	7.6
1,3-Dichlorobenzene		1.570	1.472	1.528	1.469	1.414	1.464	4.6
1,4-Dichlorobenzene		1.569	1.491	1.559	1.484	1.412	1.477	4.7
Benzyl Alcohol		1.195	1.138	1.248	1.200	1.179	1.176	3.6
2-Methylphenol		1.075	1.039	1.127	1.085	1.033	1.055	4.2
2,2-oxybis(1-Chloropropane)		2.215	2.094	2.194	2.101	1.968	2.047	7.0
Acetophenone		0.509	0.478	0.489	0.461	0.433	0.463	6.7
3+4-Methylphenols		1.472	1.432	1.518	1.429	1.344	1.405	5.6
n-Nitroso-di-n-propylamine	1.078	1.157	1.086	1.128	1.066	1.006	1.059	6.5
Nitrobenzene-d5		0.363	0.362	0.392	0.378	0.356	0.368	3.5
Hexachloroethane		0.589	0.564	0.597	0.586	0.558	0.573	3.0
Nitrobenzene		0.378	0.370	0.397	0.388	0.363	0.374	3.9
Isophorone		0.676	0.660	0.717	0.707	0.672	0.684	3.0
2-Nitrophenol		0.111	0.121	0.151	0.162	0.159	0.149	15.8
2,4-Dimethylphenol		0.208	0.199	0.217	0.216	0.205	0.209	2.9
bis(2-Chloroethoxy)methane		0.432	0.415	0.436	0.429	0.407	0.421	2.5
2,4-Dichlorophenol		0.259	0.267	0.295	0.300	0.288	0.285	5.6
1,2,4-Trichlorobenzene		0.332	0.315	0.334	0.328	0.314	0.323	2.5
Benzoic acid			0.117	0.161	0.183	0.189	0.178	19.7
Naphthalene		1.049	1.001	1.040	0.996	0.941	0.991	4.4
4-Chloroaniline		0.376	0.369	0.400	0.390	0.369	0.378	3.1
Hexachlorobutadiene		0.202	0.194	0.201	0.200	0.192	0.198	2.0
Caprolactam		0.071	0.079	0.096	0.100	0.097	0.092	13.3
4-Chloro-3-methylphenol		0.304	0.312	0.342	0.337	0.322	0.325	4.1
2-Methylnaphthalene		0.732	0.698	0.724	0.692	0.656	0.690	4.4
Hexachlorocyclopentadiene		0.199	0.195	0.217	0.225	0.219	0.216	6.3
2,4,6-Trichlorophenol		0.301	0.308	0.352	0.367	0.359	0.348	8.9

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.: BM052224 SAS No.: BM052224 SDG No.: BM052224

Instrument ID: Calibration Date(s): 5/22/2024

Calibration Time(s): 10:42

LAB FILE ID: RRF2.5 = BM045738.D RRF005 = BM045739.D RRF010 = BM045740.D
RRF020 = BM045741.D RRF040 = BM045742.D RRF050 = BM045743.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.361	1.272	1.289	1.249	1.177	1.244	5.6
2,4,5-Trichlorophenol		0.331	0.345	0.397	0.405	0.398	0.387	9.0
1,1-Biphenyl		1.425	1.353	1.398	1.353	1.292	1.348	3.7
2-Chloronaphthalene		1.118	1.053	1.101	1.049	1.005	1.055	3.9
2-Nitroaniline		0.256	0.278	0.345	0.365	0.355	0.333	13.8
Dimethylphthalate		1.357	1.306	1.390	1.387	1.330	1.353	2.2
Acenaphthylene		1.649	1.595	1.674	1.627	1.535	1.600	3.3
2,6-Dinitrotoluene		0.234	0.260	0.301	0.309	0.305	0.290	10.7
3-Nitroaniline		0.231	0.252	0.309	0.322	0.313	0.296	13.0
Acenaphthene		1.042	0.993	1.050	1.016	0.962	1.003	3.4
2,4-Dinitrophenol			0.075	0.111	0.137	0.147	0.134	26.4
4-Nitrophenol			0.185	0.246	0.264	0.263	0.252	13.8
Dibenzofuran		1.695	1.608	1.664	1.584	1.487	1.581	5.1
2,4-Dinitrotoluene		0.296	0.331	0.411	0.422	0.404	0.386	13.2
Diethylphthalate		1.418	1.363	1.460	1.456	1.384	1.414	2.5
4-Chlorophenyl-phenylether		0.675	0.644	0.649	0.632	0.604	0.632	4.1
Fluorene		1.386	1.330	1.360	1.303	1.227	1.292	5.5
4-Nitroaniline		0.234	0.251	0.314	0.324	0.308	0.294	12.3
4,6-Dinitro-2-methylphenol			0.060	0.087	0.098	0.097	0.092	18.2
n-Nitrosodiphenylamine		0.535	0.521	0.541	0.521	0.488	0.512	4.5
Azobenzene		1.452	1.383	1.458	1.398	1.289	1.370	5.2
2,4,6-Tribromophenol		0.189	0.194	0.225	0.225	0.215	0.212	6.8
4-Bromophenyl-phenylether		0.197	0.187	0.197	0.195	0.183	0.190	3.1
Hexachlorobenzene		0.237	0.225	0.234	0.232	0.218	0.226	3.5
Atrazine		0.176	0.168	0.177	0.159	0.146	0.156	11.9
Pentachlorophenol		0.105	0.117	0.144	0.149	0.147	0.138	13.8
Phenanthrene		1.007	0.975	0.994	0.958	0.889	0.944	5.5
Anthracene		0.968	0.949	0.988	0.952	0.881	0.928	5.1
Carbazole		0.959	0.946	0.998	0.952	0.880	0.929	5.1
Di-n-butylphthalate		1.111	1.121	1.231	1.213	1.130	1.153	4.2
Fluoranthene		1.222	1.169	1.217	1.172	1.098	1.151	5.2
Benzidine		0.232	0.239	0.317	0.467	0.339	0.342	25.6
Pyrene		1.342	1.339	1.428	1.484	1.396	1.411	3.9
Terphenyl-d14		1.115	1.076	1.122	1.145	1.058	1.087	3.9
Butylbenzylphthalate		0.505	0.529	0.617	0.672	0.635	0.611	11.0
3,3-Dichlorobenzidine		0.404	0.413	0.463	0.471	0.437	0.437	5.6

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.: BM052224 SAS No.: BM052224 SDG No.: BM052224

Instrument ID: Calibration Date(s): 5/22/2024

Calibration Time(s): 10:42

LAB FILE ID: RRF2.5 = BM045738.D RRF005 = BM045739.D RRF010 = BM045740.D
RRF020 = BM045741.D RRF040 = BM045742.D RRF050 = BM045743.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.271	1.242	1.311	1.307	1.239	1.274	2.2
Chrysene		1.203	1.180	1.234	1.215	1.158	1.195	2.1
Bis(2-ethylhexyl)phthalate		0.796	0.796	0.893	0.912	0.862	0.858	5.3
Di-n-octyl phthalate		1.352	1.367	1.519	1.589	1.516	1.497	6.5
Benzo(b)fluoranthene		1.123	1.125	1.164	1.160	1.095	1.134	2.2
Benzo(k)fluoranthene		1.109	1.036	1.129	1.088	1.025	1.077	3.4
Benzo(a)pyrene		0.967	0.944	1.021	1.017	0.964	0.986	2.9
Indeno(1,2,3-cd)pyrene		1.197	1.152	1.228	1.184	1.116	1.151	5.0
Dibenzo(a,h)anthracene		0.975	0.960	1.028	0.982	0.928	0.953	5.2
Benzo(g,h,i)perylene		1.036	0.994	1.059	1.012	0.962	0.989	5.4
1,2,4,5-Tetrachlorobenzene		0.526	0.496	0.523	0.525	0.504	0.516	2.2
1,4-Dioxane		0.488	0.482	0.479	0.464	0.445	0.466	3.8
2,3,4,6-Tetrachlorophenol		0.278	0.299	0.336	0.340	0.326	0.322	7.5
1-Methylnaphthalene		0.725	0.684	0.716	0.684	0.645	0.681	4.5

All other compounds must meet a minimum RRF of 0.010.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG NO.: BM052224

EPA Sample No.: SSTDICCC040 Date Analyzed: May 22 2024 12:00AM

Lab File ID: BM045742.D Time Analyzed: 17:23

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	302671	7.569	1.31438e+0(	10.34	864604	14.20
	UPPER LIMIT	605342	8.069	2628760	10.839	1729208	14.698
	LOWER LIMIT	151335.5	7.069	657190	9.839	432302	13.698
	EPA SAMPLE NO.						
01	ICVBM052224	321883	7.57	1.38161e	10.33	912753	14.20
02	PB160974BL	283570	7.57	1.1198e+	10.34	708384	14.20

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG NO.: BM052224

EPA Sample No.: SSTDICCC040 Date Analyzed: May 22 2024 12:00AM

Lab File ID: BM045742.D Time Analyzed: 17:23

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

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	LOWER LIMIT	151335.5	7.069	657190	9.839	432302	13.698
	EPA SAMPLE NO.						
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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG NO.: BM052224

EPA Sample No.: SSTDICCC040 Date Analyzed: May 22 2024 12:00AM

Lab File ID: BM045742.D Time Analyzed: 17:23

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	1.83048e+0(	16.951	1.49428e+	21.168	1.75094e+0(	23.962
	UPPER LIMIT	3660960	17.451	2988560	21.668	3501880	24.462
	LOWER LIMIT	915240	16.451	747140	20.668	875470	23.462
	EPA SAMPLE NO.						
01	ICVBM052224	1.96701	16.95	1.6257e+0	21.17	1.93429e+	23.96
02	PB160974BL	1.44404	16.95	1.27209e+	21.16	1.44017e+	23.96

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG NO.: BM052224

EPA Sample No.: SSTDICCC040 Date Analyzed: May 22 2024 12:00AM

Lab File ID: BM045742.D Time Analyzed: 17:23

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	1.83048e+0(	16.951	1.49428e+	21.168	1.75094e+0(	23.962
	UPPER LIMIT	3660960	17.451	2988560	21.668	3501880	24.462
	LOWER LIMIT	915240	16.451	747140	20.668	875470	23.462
	EPA SAMPLE NO.						
01	ICVBM052224	1.96701	16.95	1.6257e+0	21.17	1.93429e+	23.96
02	PB160974BL	1.44404	16.95	1.27209e+	21.16	1.44017e+	23.96

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.

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBM052224

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG NO.: BM052224

Lab File ID: BM045746.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_M Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 05/22/2024

Level: (low/med) LOW Time Analyzed: 17:23

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBM052224	SSTDICV040	BM045746.D	05/22/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160974BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM052224 SAS No.: BM052224 SDG NO.: BM052224

Lab File ID: BM045747.D Lab Sample ID: PB160974BL

Instrument ID: BNA_M Date Extracted: 05/17/2024

Matrix: (soil/water) Solid Date Analyzed: 05/22/2024

Level: (low/med) LOW Time Analyzed: 18:04

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

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

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: BM052224

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBM052224	BM045746.D	2-Fluorophenol	150	79,909.00	53273	*	10	139
			Phenol-d6	150	79,231.00	52821	*	10	134
			Nitrobenzene-d5	100	83,610.00	83610	*	49	133
			2-Fluorobiphenyl	100	80,297.00	80297	*	52	132
			2,4,6-Tribromophenol	150	86,471.00	57647	*	32	145
			Terphenyl-d14	100	82,543.00	82543	*	36	145

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Surrogate Summary

SW-846

SDG No.: BM052224

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB160974BL	PB160974BL	BM045747.D	2-Fluorophenol	150	150.34	100		18	112
			Phenol-d6	150	141.54	94		15	107
			Nitrobenzene-d5	100	94.35	94		18	107
			2-Fluorobiphenyl	100	89.20	89		20	109
			2,4,6-Tribromophenol	150	137.48	92		10	110
			Terphenyl-d14	100	84.60	85		14	112

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM052224

Lab Code: CHEM SAS No.: BM052224 SDG NO.: BM052224

Lab File ID: BM045737.D DFTPP Injection Date: 05/22/2024

Instrument ID: BNA_M DFTPP Injection Time: 10:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.6
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	39.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.4
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.9
442	Greater than 50% of mass 198	69.2
443	15.0 - 24.0% of mass 442	13.2 (19) 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	BM045738.D	05/22/2024	10:42
SSTDICC005	SSTDICC005	BM045739.D	05/22/2024	11:22
SSTDICC010	SSTDICC010	BM045740.D	05/22/2024	12:01
SSTDICC020	SSTDICC020	BM045741.D	05/22/2024	13:21
SSTDICCC040	SSTDICCC040	BM045742.D	05/22/2024	14:02
SSTDICC050	SSTDICC050	BM045743.D	05/22/2024	14:42
SSTDICC060	SSTDICC060	BM045744.D	05/22/2024	15:22
SSTDICC080	SSTDICC080	BM045745.D	05/22/2024	16:02
ICVBM052224	SSTDICV040	BM045746.D	05/22/2024	17:23
PB160974BL	PB160974BL	BM045747.D	05/22/2024	18:04