

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BG083024 SAS No.: BG083024 SDG No.: BG083024

Instrument ID: BNA_G Calibration Date/Time: 8/30/2024 1:10:07

Lab File ID: BG062611.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	0.675	0.700		3.704	
Pyridine	1.389	1.413		1.728	
2-Fluorophenol	1.157	1.187		2.593	
Benzaldehyde	0.972	0.959		-1.337	
Aniline	1.562	1.646		5.378	
Phenol-d6	1.672	1.744		4.306	
Phenol	1.692	1.771		4.669	20.0
bis(2-Chloroethyl) ether	1.296	1.325		2.238	
2-Chlorophenol	1.242	1.267		2.013	
1,2-Dichlorobenzene	1.379	1.413		2.466	
1,3-Dichlorobenzene	1.363	1.370		0.514	
1,4-Dichlorobenzene	1.403	1.426		1.639	20.0
Benzyl Alcohol	1.237	1.323		6.952	
2-Methylphenol	1.180	1.220		3.39	
2,2-oxybis(1-Chloropropane)	2.469	2.396		-2.957	
Acetophenone	0.540	0.548		1.481	
3+4-Methylphenols	1.740	1.804		3.678	
n-Nitroso-di-n-propylamine	1.317	1.388	0.050	5.391	
Nitrobenzene-d5	0.371	0.381		2.695	
Hexachloroethane	0.526	0.534		1.521	
Nitrobenzene	0.395	0.414		4.81	
Isophorone	0.815	0.836		2.577	
2-Nitrophenol	0.149	0.156		4.698	20.0
2,4-Dimethylphenol	0.219	0.228		4.11	
bis(2-Chloroethoxy) methane	0.436	0.459		5.275	
2,4-Dichlorophenol	0.306	0.317		3.595	20.0
1,2,4-Trichlorobenzene	0.362	0.362		0.0	
Benzoic acid	0.235	0.246		4.681	
Naphthalene	0.991	1.007		1.615	
4-Chloroaniline	0.390	0.399		2.308	
Hexachlorobutadiene	0.253	0.249		-1.581	20.0
Caprolactam	0.118	0.123		4.237	
4-Chloro-3-methylphenol	0.369	0.385		4.336	20.0
2-Methylnaphthalene	0.769	0.790		2.731	
Hexachlorocyclopentadiene	0.172	0.180	0.050	4.651	
2,4,6-Trichlorophenol	0.381	0.395		3.675	20.0
2-Fluorobiphenyl	1.235	1.260		2.024	
2,4,5-Trichlorophenol	0.432	0.452		4.63	
1,1-Biphenyl	1.334	1.361		2.024	

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Instrument ID: BNA_G Calibration Date/Time: 8/30/2024 1:10:07

Lab File ID: BG062611.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	1.081	1.102		1.943	
2-Nitroaniline	0.284	0.299		5.282	
Dimethylphthalate	1.462	1.493		2.12	
Acenaphthylene	1.601	1.664		3.935	
2,6-Dinitrotoluene	0.277	0.298		7.581	
3-Nitroaniline	0.268	0.289		7.836	
Acenaphthene	1.001	1.016		1.499	20.0
2,4-Dinitrophenol	0.155	0.161	0.050	3.871	
4-Nitrophenol	0.227	0.245	0.050	7.93	
Dibenzofuran	1.717	1.747		1.747	
2,4-Dinitrotoluene	0.377	0.399		5.836	
Diethylphthalate	1.449	1.460		0.759	
4-Chlorophenyl-phenylether	0.773	0.775		0.259	
Fluorene	1.347	1.353		0.445	
4-Nitroaniline	0.295	0.310		5.085	
4,6-Dinitro-2-methylphenol	0.089	0.091		2.247	
n-Nitrosodiphenylamine	0.481	0.491		2.079	20.0
Azobenzene	1.361	1.386		1.837	
2,4,6-Tribromophenol	0.281	0.291		3.559	
4-Bromophenyl-phenylether	0.206	0.210		1.942	
Hexachlorobenzene	0.244	0.249		2.049	
Atrazine	0.163	0.142		-12.883	
Pentachlorophenol	0.157	0.164		4.459	20.0
Phenanthrene	0.934	0.953		2.034	
Anthracene	0.918	0.947		3.159	
Carbazole	0.844	0.852		0.948	
Di-n-butylphthalate	0.952	0.980		2.941	
Fluoranthene	1.181	1.184		0.254	20.0
Benzidine	0.360	0.441		22.5	
Pyrene	1.271	1.299		2.203	
Terphenyl-d14	1.009	0.994		-1.487	
Butylbenzylphthalate	0.373	0.387		3.753	
3,3-Dichlorobenzidine	0.411	0.420		2.19	
Benzo(a)anthracene	1.261	1.278		1.348	
Chrysene	1.208	1.221		1.076	
Bis(2-ethylhexyl)phthalate	0.567	0.586		3.351	
Di-n-octyl phthalate	0.993	1.032		3.927	20.0
Benzo(b)fluoranthene	1.105	1.121		1.448	
Benzo(k)fluoranthene	1.081	1.110		2.683	

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Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BG083024 SAS No.: BG083024 SDG No.: BG083024

Instrument ID: BNA_G Calibration Date/Time: 8/30/2024 1:10:07

Lab File ID: BG062611.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	0.976	0.993		1.742	20.0
Indeno(1,2,3-cd)pyrene	1.282	1.303		1.638	
Dibenzo(a,h)anthracene	1.056	1.067		1.042	
Benzo(g,h,i)perylene	1.065	1.089		2.254	
1,2,4,5-Tetrachlorobenzene	0.601	0.607		0.998	
1,4-Dioxane	0.482	0.472		-2.075	20.0
2,3,4,6-Tetrachlorophenol	0.409	0.410		0.244	
1-Methylnaphthalene	0.772	0.792		2.591	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBG083024			SDG No.:	BG083024		
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
BG062615.D	1		8/30/2024 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	40700		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	42700		4000	8000	10000	ug/L
62-53-3	Aniline	41900		1600	4000	5000	ug/L
108-95-2	Phenol	43000		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	42100		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	42400		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	41000		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	41300		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	40600		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	43600		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	43300		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39700		1400	4000	5000	ug/L
98-86-2	Acetophenone	36100		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	40200		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40200		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	38900		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	37000		1300	4000	5000	ug/L
78-59-1	Isophorone	37100		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	42000		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	39400		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39600		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	41200		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	40200		1100	4000	5000	ug/L
65-85-0	Benzoic acid	43100		5500	8000	10000	ug/L
91-20-3	Naphthalene	40700		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	40700		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	40900		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBG083024			SDG No.:	BG083024		
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
BG062615.D	1		8/30/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	38600		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	37900		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	38100		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	43900		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	41800		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	41600		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	40400		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	40100		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	43500		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39500		930	4000	5000	ug/L
208-96-8	Acenaphthylene	40000		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	44000		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	43500		1400	4000	5000	ug/L
83-32-9	Acenaphthene	39900		810	4000	5000	ug/L
Total PAH	Total PAH	647500		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	44400		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	42700		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	39300		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	43700		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	87700		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	38800		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39000		980	4000	5000	ug/L
86-73-7	Fluorene	39300		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	41300		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44600		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	40400		890	4000	5000	ug/L
103-33-3	Azobenzene	38300		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	41900		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	41700		1100	4000	5000	ug/L
1912-24-9	Atrazine	34500		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBG083024			SDG No.:	BG083024		
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 :			
Injection Volume :				Level :	LOW		
	GPC Factor :			GPC Cleanup :	PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG062615.D	1		8/30/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	43000		1900	8000	10000	ug/L
85-01-8	Phenanthrene	40600		890	4000	5000	ug/L
120-12-7	Anthracene	41000		1100	4000	5000	ug/L
86-74-8	Carbazole	40300		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	41200		1500	4000	5000	ug/L
206-44-0	Fluoranthene	39900		1300	4000	5000	ug/L
92-87-5	Benzidine	51500		4100	8000	10000	ug/L
129-00-0	Pyrene	40100		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	42700		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	41600		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	40500		940	4000	5000	ug/L
218-01-9	Chrysene	40300		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42300		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	42000		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	40700		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	40900		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	40400		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41000		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	41200		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	41000		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40600		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	39000		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40700		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	37900		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	82615	*	10-139		55077	SPK: -150
13127-88-3	Phenol-d6	85352	*	10-134		56901	SPK: -150
4165-60-0	Nitrobenzene-d5	74923	*	49-133		74923	SPK: -100
321-60-8	2-Fluorobiphenyl	80223	*	52-132		80223	SPK: -100

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBG083024			SDG No.:	BG083024		
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
BG062615.D	1		8/30/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	80908	*	44-137		53939	SPK: -150
1718-51-0	Terphenyl-d14	78350	*	48-125		78350	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	60477		7.919			
1146-65-2	Naphthalene-d8	303956		10.716			
15067-26-2	Acenaphthene-d10	237716		14.547			
1517-22-2	Phenanthrene-d10	577724		17.291			
1719-03-5	Chrysene-d12	555167		21.539			
1520-96-3	Perylene-d12	635460		24.606			

Report of Analysis

Client:		Date Collected:	8/28/2024 12:00:00 AM
Project:		Date Received:	8/28/2024 12:00:00 AM
Client Sample ID:	PB163024BL	SDG No.:	BG083024
Lab Sample ID:	PB163024BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02	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
BG062616.D	1	8/28/2024 12:00:00 AM	8/30/2024 12:00:00 AM	PB163024

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

Report of Analysis

Client:		Date Collected:	8/28/2024 12:00:00 AM
Project:		Date Received:	8/28/2024 12:00:00 AM
Client Sample ID:	PB163024BL	SDG No.:	BG083024
Lab Sample ID:	PB163024BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02	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
BG062616.D	1	8/28/2024 12:00:00 AM	8/30/2024 12:00:00 AM	PB163024

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

Report of Analysis

Client:		Date Collected:	8/28/2024 12:00:00 AM
Project:		Date Received:	8/28/2024 12:00:00 AM
Client Sample ID:	PB163024BL	SDG No.:	BG083024
Lab Sample ID:	PB163024BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.02	Units:	g
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
BG062616.D	1	8/28/2024 12:00:00 AM	8/30/2024 12:00:00 AM	PB163024

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	161.584		18-112		108	SPK: -150
13127-88-3	Phenol-d6	151.877		15-107		101	SPK: -150
4165-60-0	Nitrobenzene-d5	96.357		18-107		96	SPK: -100
321-60-8	2-Fluorobiphenyl	97.936		20-109		98	SPK: -100

Report of Analysis

Client:		Date Collected:	8/28/2024 12:00:00 AM
Project:		Date Received:	8/28/2024 12:00:00 AM
Client Sample ID:	PB163024BL	SDG No.:	BG083024
Lab Sample ID:	PB163024BL	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
BG062616.D	1	8/28/2024 12:00:00 AM	8/30/2024 12:00:00 AM	PB163024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	161.62		10-116		108	SPK: -150
1718-51-0	Terphenyl-d14	95.809		10-105		96	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	51320	7.918				
1146-65-2	Naphthalene-d8	227847	10.715				
15067-26-2	Acenaphthene-d10	181857	14.546				
1517-22-2	Phenanthrene-d10	527167	17.289				
1719-03-5	Chrysene-d12	559653	21.532				
1520-96-3	Perylene-d12	631780	24.599				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A			5.033	

Hit Summary Sheet SW-846

SDG No.: BG083024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : ICVBG083024								
SSTDICV040	ICVBG083024	Water	1,1-Biphenyl	40,400.000	910		5000	ug/L
SSTDICV040	ICVBG083024	Water	1,2,4,5-Tetrachlorobenzene	40,600.000	1100		5000	ug/L
SSTDICV040	ICVBG083024	Water	1,2,4-Trichlorobenzene	40,200.000	1100		5000	ug/L
SSTDICV040	ICVBG083024	Water	1,2-Dichlorobenzene	41,000.000	880		5000	ug/L
SSTDICV040	ICVBG083024	Water	1,3-Dichlorobenzene	41,300.000	800		5000	ug/L
SSTDICV040	ICVBG083024	Water	1,4-Dichlorobenzene	40,600.000	840		5000	ug/L
SSTDICV040	ICVBG083024	Water	1,4-Dioxane	39,000.000	1300		5000	ug/L
SSTDICV040	ICVBG083024	Water	1-Methylnaphthalene	37,900.000	860		5000	ug/L
SSTDICV040	ICVBG083024	Water	2,2-oxybis(1-Chloropropane)	39,700.000	1400		5000	ug/L
SSTDICV040	ICVBG083024	Water	2,3,4,6-Tetrachlorophenol	40,700.000	790		5000	ug/L
SSTDICV040	ICVBG083024	Water	2,4,5-Trichlorophenol	41,600.000	1000		5000	ug/L
SSTDICV040	ICVBG083024	Water	2,4,6-Trichlorophenol	41,800.000	890		5000	ug/L
SSTDICV040	ICVBG083024	Water	2,4-Dichlorophenol	41,200.000	880		5000	ug/L
SSTDICV040	ICVBG083024	Water	2,4-Dimethylphenol	39,400.000	1500		5000	ug/L
SSTDICV040	ICVBG083024	Water	2,4-Dinitrophenol	44,400.000	6400		10000	ug/L
SSTDICV040	ICVBG083024	Water	2,4-Dinitrotoluene	43,700.000	1500		5000	ug/L
SSTDICV040	ICVBG083024	Water	2,6-Dinitrotoluene	44,000.000	1200		5000	ug/L
SSTDICV040	ICVBG083024	Water	2-Chloronaphthalene	40,100.000	970		5000	ug/L
SSTDICV040	ICVBG083024	Water	2-Chlorophenol	42,400.000	710		5000	ug/L
SSTDICV040	ICVBG083024	Water	2-Methylnaphthalene	38,100.000	1100		5000	ug/L
SSTDICV040	ICVBG083024	Water	2-Methylphenol	43,300.000	1100		5000	ug/L
SSTDICV040	ICVBG083024	Water	2-Nitroaniline	43,500.000	1400		5000	ug/L
SSTDICV040	ICVBG083024	Water	2-Nitrophenol	42,000.000	2000		5000	ug/L
SSTDICV040	ICVBG083024	Water	3+4-Methylphenols	40,200.000	1200		10000	ug/L
SSTDICV040	ICVBG083024	Water	3,3-Dichlorobenzidine	41,600.000	1300		10000	ug/L
SSTDICV040	ICVBG083024	Water	3-Nitroaniline	43,500.000	1400		5000	ug/L
SSTDICV040	ICVBG083024	Water	4,6-Dinitro-2-methylphenol	44,600.000	3100		10000	ug/L
SSTDICV040	ICVBG083024	Water	4-Bromophenyl-phenylether	41,900.000	950		5000	ug/L
SSTDICV040	ICVBG083024	Water	4-Chloro-3-methylphenol	37,900.000	840		5000	ug/L
SSTDICV040	ICVBG083024	Water	4-Chloroaniline	40,700.000	1300		5000	ug/L
SSTDICV040	ICVBG083024	Water	4-Chlorophenyl-phenylether	39,000.000	980		5000	ug/L
SSTDICV040	ICVBG083024	Water	4-Nitroaniline	41,300.000	2000		5000	ug/L
SSTDICV040	ICVBG083024	Water	4-Nitrophenol	42,700.000	2000		10000	ug/L
SSTDICV040	ICVBG083024	Water	Acenaphthene	39,900.000	810		5000	ug/L
SSTDICV040	ICVBG083024	Water	Acenaphthylene	40,000.000	1000		5000	ug/L
SSTDICV040	ICVBG083024	Water	Acetophenone	36,100.000	1100		5000	ug/L
SSTDICV040	ICVBG083024	Water	Aniline	41,900.000	1600		5000	ug/L

Hit Summary Sheet SW-846

SDG No.: BG083024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBG083024	Water	Anthracene	41,000.000		1100	5000	ug/L
SSTDICV040	ICVBG083024	Water	Atrazine	34,500.000		1300	5000	ug/L
SSTDICV040	ICVBG083024	Water	Azobenzene	38,300.000		1200	5000	ug/L
SSTDICV040	ICVBG083024	Water	Benzaldehyde	42,700.000		4000	10000	ug/L
SSTDICV040	ICVBG083024	Water	Benzidine	51,500.000		4100	10000	ug/L
SSTDICV040	ICVBG083024	Water	Benzo(a)anthracene	40,500.000		940	5000	ug/L
SSTDICV040	ICVBG083024	Water	Benzo(a)pyrene	40,400.000		1700	5000	ug/L
SSTDICV040	ICVBG083024	Water	Benzo(b)fluoranthene	40,700.000		1100	5000	ug/L
SSTDICV040	ICVBG083024	Water	Benzo(g,h,i)perylene	41,000.000		1200	5000	ug/L
SSTDICV040	ICVBG083024	Water	Benzo(k)fluoranthene	40,900.000		1200	5000	ug/L
SSTDICV040	ICVBG083024	Water	Benzoic acid	43,100.000		5500	10000	ug/L
SSTDICV040	ICVBG083024	Water	Benzyl Alcohol	43,600.000		1600	10000	ug/L
SSTDICV040	ICVBG083024	Water	bis(2-Chloroethoxy)methane	39,600.000		1000	5000	ug/L
SSTDICV040	ICVBG083024	Water	bis(2-Chloroethyl)ether	42,100.000		1200	5000	ug/L
SSTDICV040	ICVBG083024	Water	Bis(2-ethylhexyl)phthalate	42,300.000		1900	5000	ug/L
SSTDICV040	ICVBG083024	Water	Butylbenzylphthalate	42,700.000		2100	5000	ug/L
SSTDICV040	ICVBG083024	Water	Caprolactam	38,600.000		1700	10000	ug/L
SSTDICV040	ICVBG083024	Water	Carbazole	40,300.000		1200	5000	ug/L
SSTDICV040	ICVBG083024	Water	Chrysene	40,300.000		860	5000	ug/L
SSTDICV040	ICVBG083024	Water	Di-n-butylphthalate	41,200.000		1500	5000	ug/L
SSTDICV040	ICVBG083024	Water	Di-n-octyl phthalate	42,000.000		2500	10000	ug/L
SSTDICV040	ICVBG083024	Water	Dibenzo(a,h)anthracene	41,200.000		1200	5000	ug/L
SSTDICV040	ICVBG083024	Water	Dibenzofuran	39,300.000		930	5000	ug/L
SSTDICV040	ICVBG083024	Water	Diethylphthalate	38,800.000		1000	5000	ug/L
SSTDICV040	ICVBG083024	Water	Dimethylphthalate	39,500.000		930	5000	ug/L
SSTDICV040	ICVBG083024	Water	Fluoranthene	39,900.000		1300	5000	ug/L
SSTDICV040	ICVBG083024	Water	Fluorene	39,300.000		960	5000	ug/L
SSTDICV040	ICVBG083024	Water	Hexachlorobenzene	41,700.000		1100	5000	ug/L
SSTDICV040	ICVBG083024	Water	Hexachlorobutadiene	40,900.000		1300	5000	ug/L
SSTDICV040	ICVBG083024	Water	Hexachlorocyclopentadiene	43,900.000		5000	10000	ug/L
SSTDICV040	ICVBG083024	Water	Hexachloroethane	38,900.000		1000	5000	ug/L
SSTDICV040	ICVBG083024	Water	Indeno(1,2,3-cd)pyrene	41,000.000		1000	5000	ug/L
SSTDICV040	ICVBG083024	Water	Isophorone	37,100.000		1100	5000	ug/L
SSTDICV040	ICVBG083024	Water	n-Nitroso-di-n-propylamine	40,200.000		1500	2500	ug/L
SSTDICV040	ICVBG083024	Water	n-Nitrosodimethylamine	40,700.000		1000	10000	ug/L
SSTDICV040	ICVBG083024	Water	n-Nitrosodiphenylamine	40,400.000		890	5000	ug/L
SSTDICV040	ICVBG083024	Water	Naphthalene	40,700.000		1000	5000	ug/L
SSTDICV040	ICVBG083024	Water	Nitrobenzene	37,000.000		1300	5000	ug/L
SSTDICV040	ICVBG083024	Water	Pentachlorophenol	43,000.000		1900	10000	ug/L
SSTDICV040	ICVBG083024	Water	Phenanthrene	40,600.000		890	5000	ug/L

Hit Summary Sheet
SW-846

SDG No.: BG083024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBG083024	Water	Phenol	43,000.000		930	5000	ug/L
SSTDICV040	ICVBG083024	Water	Pyrene	40,100.000		1100	5000	ug/L
SSTDICV040	ICVBG083024	Water	Pyridine	40,700.000		1600	5000	ug/L
SSTDICV040	ICVBG083024	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	87,700.000		2700	10000	ug/L
SSTDICV040	ICVBG083024	Water	Total PAH	647,500.000		17360	80000	ug/L
Total Svoc :						4,008,600.00		
Total Concentration:						4,008,600.00		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BG083024 SAS No.: BG083024 SDG No.: BG083024
Instrument ID: _____ Calibration Date(s): 8/30/2024 : _____
Calibration Time(s): 07:25 _____

LAB FILE ID:		RRF2.5 = BG062607.D			RRF005 = BG062608.D		RRF010 = BG062609.D	
		RRF020 = BG062610.D			RRF040 = BG062611.D		RRF050 = BG062612.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.650	0.711	0.704	0.700	0.635	0.675	4.4
Pyridine		1.408	1.386	1.437	1.413	1.327	1.389	2.6
2-Fluorophenol		1.175	1.159	1.234	1.187	1.093	1.157	4.3
Benzaldehyde			1.121	1.114	0.959	0.832	0.972	14.6
Aniline		1.554	1.590	1.636	1.646	1.516	1.562	4.3
Phenol-d6		1.629	1.610	1.708	1.744	1.647	1.672	2.8
Phenol		1.636	1.659	1.711	1.771	1.650	1.692	2.8
bis(2-Chloroethyl)ether		1.356	1.314	1.324	1.325	1.221	1.296	3.7
2-Chlorophenol		1.285	1.210	1.264	1.267	1.197	1.242	2.6
1,2-Dichlorobenzene		1.460	1.413	1.415	1.413	1.292	1.379	4.6
1,3-Dichlorobenzene		1.462	1.392	1.392	1.370	1.302	1.363	4.4
1,4-Dichlorobenzene		1.515	1.420	1.430	1.426	1.334	1.403	4.7
Benzyl Alcohol		1.150	1.148	1.249	1.323	1.236	1.237	5.3
2-Methylphenol		1.178	1.188	1.220	1.220	1.116	1.180	3.1
2,2-oxybis(1-Chloropropane)		2.613	2.497	2.575	2.396	2.396	2.469	4.1
Acetophenone		0.546	0.554	0.566	0.548	0.488	0.540	4.8
3+4-Methylphenols		1.619	1.680	1.809	1.804	1.750	1.740	4.0
n-Nitroso-di-n-propylamine	1.124	1.318	1.344	1.431	1.388	1.299	1.317	6.9
Nitrobenzene-d5		0.350	0.356	0.382	0.381	0.349	0.371	5.1
Hexachloroethane		0.535	0.521	0.553	0.534	0.503	0.526	3.5
Nitrobenzene		0.372	0.376	0.408	0.414	0.367	0.395	5.6
Isophorone		0.868	0.825	0.872	0.836	0.719	0.815	6.5
2-Nitrophenol		0.115	0.134	0.153	0.156	0.146	0.149	13.2
2,4-Dimethylphenol		0.198	0.219	0.227	0.228	0.203	0.219	5.9
bis(2-Chloroethoxy)methane		0.448	0.423	0.448	0.459	0.401	0.436	5.1
2,4-Dichlorophenol		0.295	0.284	0.310	0.317	0.285	0.306	6.5
1,2,4-Trichlorobenzene		0.366	0.356	0.371	0.362	0.339	0.362	4.4
Benzoic acid			0.169	0.245	0.246	0.229	0.235	14.6
Naphthalene		1.035	0.993	1.045	1.007	0.895	0.991	5.1
4-Chloroaniline		0.398	0.392	0.401	0.399	0.359	0.390	3.8
Hexachlorobutadiene		0.272	0.264	0.258	0.249	0.224	0.253	6.0
Caprolactam		0.125	0.120	0.128	0.123	0.105	0.118	7.2
4-Chloro-3-methylphenol		0.376	0.358	0.389	0.385	0.334	0.369	5.0
2-Methylnaphthalene		0.812	0.779	0.800	0.790	0.691	0.769	5.3
Hexachlorocyclopentadiene			0.129	0.157	0.180	0.178	0.172	14.4
2,4,6-Trichlorophenol		0.356	0.373	0.379	0.395	0.379	0.381	3.9

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BG083024

SAS No.: BG083024

SDG No.: BG083024

Instrument ID: _____

Calibration Date(s): 8/30/2024 : _____

Calibration Time(s): 07:25 _____

LAB FILE ID:		RRF2.5 = BG062607.D			RRF005 = BG062608.D		RRF010 = BG062609.D	
		RRF020 = BG062610.D			RRF040 = BG062611.D		RRF050 = BG062612.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.311	1.269	1.263	1.260	1.193	1.235	4.8
2,4,5-Trichlorophenol		0.384	0.422	0.436	0.452	0.433	0.432	5.5
1,1-Biphenyl		1.379	1.361	1.356	1.361	1.284	1.334	3.1
2-Chloronaphthalene		1.114	1.075	1.105	1.102	1.042	1.081	2.7
2-Nitroaniline		0.237	0.251	0.274	0.299	0.302	0.284	10.9
Dimethylphthalate		1.539	1.517	1.519	1.493	1.402	1.462	5.0
Acenaphthylene		1.588	1.606	1.626	1.664	1.575	1.601	2.4
2,6-Dinitrotoluene		0.236	0.248	0.274	0.298	0.288	0.277	9.1
3-Nitroaniline		0.236	0.240	0.269	0.289	0.277	0.268	8.0
Acenaphthene		1.037	1.017	1.026	1.016	0.965	1.001	3.2
2,4-Dinitrophenol			0.116	0.146	0.161	0.161	0.155	14.1
4-Nitrophenol		0.196	0.205	0.230	0.245	0.237	0.227	8.3
Dibenzofuran		1.820	1.763	1.769	1.747	1.642	1.717	4.7
2,4-Dinitrotoluene		0.329	0.341	0.372	0.399	0.397	0.377	8.3
Diethylphthalate		1.625	1.516	1.498	1.460	1.364	1.449	7.4
4-Chlorophenyl-phenylether		0.856	0.810	0.802	0.775	0.731	0.773	7.0
Fluorene		1.475	1.414	1.425	1.353	1.268	1.347	7.2
4-Nitroaniline		0.271	0.283	0.310	0.310	0.300	0.295	4.9
4,6-Dinitro-2-methylphenol			0.071	0.084	0.091	0.091	0.089	11.7
n-Nitrosodiphenylamine		0.496	0.481	0.500	0.491	0.452	0.481	3.6
Azobenzene		1.479	1.423	1.409	1.386	1.292	1.361	6.3
2,4,6-Tribromophenol		0.288	0.283	0.287	0.291	0.276	0.281	3.0
4-Bromophenyl-phenylether		0.205	0.201	0.213	0.210	0.198	0.206	2.5
Hexachlorobenzene		0.245	0.239	0.250	0.249	0.235	0.244	2.3
Atrazine		0.194	0.190	0.168	0.142	0.123	0.163	18.5
Pentachlorophenol			0.136	0.156	0.164	0.155	0.157	7.0
Phenanthrene		0.987	0.955	0.977	0.953	0.882	0.934	5.0
Anthracene		0.940	0.931	0.966	0.947	0.870	0.918	4.3
Carbazole		0.902	0.876	0.886	0.852	0.793	0.844	5.7
Di-n-butylphthalate		0.969	0.968	0.998	0.980	0.913	0.952	4.2
Fluoranthene		1.335	1.249	1.234	1.184	1.097	1.181	8.6
Benzidine		0.329	0.313	0.359	0.441	0.336	0.360	11.7
Pyrene		1.360	1.322	1.348	1.299	1.210	1.271	6.5
Terphenyl-d14		1.120	1.079	1.075	0.994	0.896	1.009	9.8
Butylbenzylphthalate		0.359	0.345	0.374	0.387	0.372	0.373	4.5
3,3-Dichlorobenzidine		0.427	0.410	0.434	0.420	0.392	0.411	4.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BG083024 SAS No.: BG083024 SDG No.: BG083024
Instrument ID: _____ Calibration Date(s): 8/30/2024 : _____
Calibration Time(s): 07:25 : _____

LAB FILE ID:		RRF2.5 = BG062607.D			RRF005 = BG062608.D		RRF010 = BG062609.D	
		RRF020 = BG062610.D			RRF040 = BG062611.D		RRF050 = BG062612.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.333	1.285	1.293	1.278	1.211	1.261	4.0
Chrysene		1.289	1.224	1.259	1.221	1.152	1.208	4.8
Bis(2-ethylhexyl)phthalate		0.544	0.542	0.575	0.586	0.564	0.567	3.3
Di-n-octyl phthalate		0.927	0.928	1.000	1.032	0.999	0.993	4.9
Benzo(b)fluoranthene		1.129	1.086	1.140	1.121	1.069	1.105	2.6
Benzo(k)fluoranthene		1.136	1.081	1.102	1.110	1.019	1.081	3.7
Benzo(a)pyrene		1.004	0.971	0.994	0.993	0.941	0.976	2.4
Indeno(1,2,3-cd)pyrene		1.293	1.265	1.295	1.303	1.243	1.282	1.8
Dibenzo(a,h)anthracene		1.070	1.027	1.076	1.067	1.025	1.056	2.1
Benzo(g,h,i)perylene		1.060	1.044	1.084	1.089	1.026	1.065	2.3
1,2,4,5-Tetrachlorobenzene		0.613	0.590	0.602	0.607	0.587	0.601	1.7
1,4-Dioxane		0.584	0.511	0.530	0.472	0.419	0.482	13.0
2,3,4,6-Tetrachlorophenol		0.416	0.423	0.411	0.410	0.400	0.409	2.2
1-Methylnaphthalene		0.820	0.765	0.821	0.792	0.690	0.772	5.9

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.: BG083024 SAS No.: BG083024 SDG NO.: BG083024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 30 2024 12:00AM

Lab File ID: BG062611.D Time Analyzed: 13:54

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	59368	7.92	275915	10.72	227501	14.55
UPPER LIMIT	118736	8.42	551830	11.217	455002	15.048
LOWER LIMIT	29684	7.42	137957.5	10.217	113750.5	14.048
EPA SAMPLE NO.						
01 ICVBG083024	60477	7.92	303956	10.72	237716	14.55
02 PB163024BL	51320	7.92	227847	10.72	181857	14.55

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.: BG083024 SAS No.: BG083024 SDG NO.: BG083024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 30 2024 12:00AM

Lab File ID: BG062611.D Time Analyzed: 13:54

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	59368	7.92	275915	10.72	227501	14.55
UPPER LIMIT	118736	8.42	551830	11.217	455002	15.048
LOWER LIMIT	29684	7.42	137957.5	10.217	113750.5	14.048
EPA SAMPLE NO.						
01 ICVBG083024	60477	7.92	303956	10.72	237716	14.55
02 PB163024BL	51320	7.92	227847	10.72	181857	14.55

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.: BG083024 SAS No.: BG083024 SDG NO.: BG083024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 30 2024 12:00AM

Lab File ID: BG062611.D Time Analyzed: 13:54

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	574112	17.291	541813	21.534	618280	24.606
UPPER LIMIT	1148224	17.791	1083626	22.034	1236560	25.106
LOWER LIMIT	287056	16.791	270906.5	21.034	309140	24.106
EPA SAMPLE NO.						
01 ICVBG083024	577724	17.29	555167	21.54	635460	24.61
02 PB163024BL	527167	17.29	559653	21.53	631780	24.60

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.: BG083024 SAS No.: BG083024 SDG NO.: BG083024

EPA Sample No.: SSTDICCC040 Date Analyzed: Aug 30 2024 12:00AM

Lab File ID: BG062611.D Time Analyzed: 13:54

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	574112	17.291	541813	21.534	618280	24.606
UPPER LIMIT	1148224	17.791	1083626	22.034	1236560	25.106
LOWER LIMIT	287056	16.791	270906.5	21.034	309140	24.106
EPA SAMPLE NO.						
01 ICVBG083024	577724	17.29	555167	21.54	635460	24.61
02 PB163024BL	527167	17.29	559653	21.53	631780	24.60

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.

ICVBG083024

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BG083024

SAS No.: BG083024 SDG NO.: BG083024

Lab File ID: BG062615.D

Lab Sample ID: SSTDICV040

Instrument ID: BNA_G

Date Extracted: _____

Matrix: (soil/water) Water

Date Analyzed: 08/30/2024

Level: (low/med) LOW

Time Analyzed: 13:54

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBG083024	SSTDICV040	BG062615.D	08/30/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163024BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BG083024

SAS No.: BG083024 SDG NO.: BG083024

Lab File ID: BG062616.D

Lab Sample ID: PB163024BL

Instrument ID: BNA_G

Date Extracted: 08/28/2024

Matrix: (soil/water) Solid

Date Analyzed: 08/30/2024

Level: (low/med) LOW

Time Analyzed: 15:36

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

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

COMMENTS:

Surrogate Summary

SW-846

SDG No.: **BG083024**

Client: _____

Analytical Method: **8270E**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV040	ICVBG083024	BG062615.D	2-Fluorophenol	150	82,615.00	55077	*	10	139
			Phenol-d6	150	85,352.00	56901	*	10	134
			Nitrobenzene-d5	100	74,923.00	74923	*	49	133
			2-Fluorobiphenyl	100	80,223.00	80223	*	52	132
			2,4,6-Tribromophenol	150	80,908.00	53939	*	44	137
			Terphenyl-d14	100	78,350.00	78350	*	48	125

Surrogate Summary

SW-846

SDG No.: **BG083024**

Client: _____

Analytical Method: **8270E**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB163024BL	PB163024BL	BG062616.D	2-Fluorophenol	150	161.58	108		18	112
			Phenol-d6	150	151.88	101		15	107
			Nitrobenzene-d5	100	96.36	96		18	107
			2-Fluorobiphenyl	100	97.94	98		20	109
			2,4,6-Tribromophenol	150	161.62	108		10	116
			Terphenyl-d14	100	95.81	96		10	105

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BG083024

Lab Code: CHEM

SAS No.: BG083024 SDG NO.: BG083024

Lab File ID: BG062606.D

DFTPP Injection Date: 08/30/2024

Instrument ID: BNA_G

DFTPP Injection Time: 06:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.6
68	Less than 2.0% of mass 69	0.1 (0.4) 1
69	Mass 69 relative abundance	26.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	33
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	15.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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	BG062607.D	08/30/2024	07:25
SSTDICC005	SSTDICC005	BG062608.D	08/30/2024	08:05
SSTDICC010	SSTDICC010	BG062609.D	08/30/2024	08:46
SSTDICC020	SSTDICC020	BG062610.D	08/30/2024	09:26
SSTDICCC040	SSTDICCC040	BG062611.D	08/30/2024	10:07
SSTDICC050	SSTDICC050	BG062612.D	08/30/2024	10:47
SSTDICC060	SSTDICC060	BG062613.D	08/30/2024	11:27
SSTDICC080	SSTDICC080	BG062614.D	08/30/2024	12:07
ICVBG083024	SSTDICV040	BG062615.D	08/30/2024	13:54
PB163024BL	PB163024BL	BG062616.D	08/30/2024	15:36