

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BG031324 SAS No.: BG031324 SDG No.: BG031324
 Instrument ID: BNA_G Calibration Date/Time: 3/13/2024 1:13:26
 Lab File ID: BG060625.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	0.772	0.776		0.518	
Pyridine	1.574	1.587		0.826	
2-Fluorophenol	1.272	1.299		2.123	
Benzaldehyde	1.033	1.084		4.937	
Aniline	2.255	2.328		3.237	
Phenol-d6	1.846	1.917		3.846	
Phenol	1.852	1.932		4.32	20.0
bis(2-Chloroethyl)ether	1.476	1.516		2.71	
2-Chlorophenol	1.391	1.431		2.876	
1,2-Dichlorobenzene	1.510	1.521		0.728	
1,3-Dichlorobenzene	1.500	1.500		0.0	
1,4-Dichlorobenzene	1.520	1.557		2.434	20.0
Benzyl Alcohol	1.459	1.549		6.169	
2-Methylphenol	1.422	1.496		5.204	
2,2-oxybis(1-Chloropropane)	2.866	2.934		2.373	
Acetophenone	0.536	0.548		2.239	
3+4-Methylphenols	1.918	2.023		5.474	
n-Nitroso-di-n-propylamine	1.279	1.341	0.050	4.848	
Nitrobenzene-d5	0.384	0.398		3.646	
Hexachloroethane	0.519	0.526		1.349	
Nitrobenzene	0.384	0.401		4.427	
Isophorone	0.769	0.788		2.471	
2-Nitrophenol	0.142	0.153		7.746	20.0
2,4-Dimethylphenol	0.340	0.337		-0.882	
bis(2-Chloroethoxy)methane	0.461	0.466		1.085	
2,4-Dichlorophenol	0.306	0.316		3.268	20.0
1,2,4-Trichlorobenzene	0.324	0.322		-0.617	
Benzoic acid	0.199	0.217		9.045	
Naphthalene	1.117	1.113		-0.358	
4-Chloroaniline	0.471	0.481		2.123	
Hexachlorobutadiene	0.221	0.221		0.0	20.0
Caprolactam	0.103	0.106		2.913	
4-Chloro-3-methylphenol	0.374	0.385		2.941	20.0
2-Methylnaphthalene	0.772	0.773		0.13	
Hexachlorocyclopentadiene	0.302	0.315	0.050	4.305	
2,4,6-Trichlorophenol	0.394	0.405		2.792	20.0
2-Fluorobiphenyl	1.479	1.471		-0.541	
2,4,5-Trichlorophenol	0.467	0.484		3.64	
1,1-Biphenyl	1.520	1.520		0.0	
2-Chloronaphthalene	1.147	1.169		1.918	
2-Nitroaniline	0.379	0.411		8.443	

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 EPA Sample No.: SSTDICCC040 Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dimethylphthalate	1.500	1.522		1.467	
Acenaphthylene	1.869	1.881		0.642	
2,6-Dinitrotoluene	0.276	0.295		6.884	
3-Nitroaniline	0.318	0.332		4.403	
Acenaphthene	1.117	1.113		-0.358	20.0
2,4-Dinitrophenol	0.118	0.123	0.050	4.237	
4-Nitrophenol	0.237	0.246	0.050	3.797	
Dibenzofuran	1.808	1.804		-0.221	
2,4-Dinitrotoluene	0.348	0.373		7.184	
Diethylphthalate	1.543	1.554		0.713	
4-Chlorophenyl-phenylether	0.733	0.729		-0.546	
Fluorene	1.447	1.453		0.415	
4-Nitroaniline	0.326	0.347		6.442	
4,6-Dinitro-2-methylphenol	0.083	0.087		4.819	
n-Nitrosodiphenylamine	0.626	0.631		0.799	20.0
Azobenzene	1.597	1.621		1.503	
2,4,6-Tribromophenol	0.232	0.245		5.603	
4-Bromophenyl-phenylether	0.216	0.213		-1.389	
Hexachlorobenzene	0.248	0.247		-0.403	
Atrazine	0.209	0.214		2.392	
Pentachlorophenol	0.161	0.170		5.59	20.0
Phenanthrene	1.077	1.071		-0.557	
Anthracene	1.089	1.092		0.275	
Carbazole	0.947	0.954		0.739	
Di-n-butylphthalate	1.154	1.198		3.813	
Fluoranthene	1.192	1.212		1.678	20.0
Benzidine	0.489	0.545		11.452	
Pyrene	1.396	1.414		1.289	
Terphenyl-d14	1.106	1.096		-0.904	
Butylbenzylphthalate	0.528	0.557		5.492	
3,3-Dichlorobenzidine	0.464	0.494		6.466	
Benzo (a) anthracene	1.377	1.402		1.816	
Chrysene	1.337	1.346		0.673	
Bis (2-ethylhexyl) phthalate	0.779	0.826		6.033	
Di-n-octyl phthalate	1.283	1.375		7.171	20.0
Benzo (b) fluoranthene	1.100	1.137		3.364	
Benzo (k) fluoranthene	1.156	1.164		0.692	
Benzo (a) pyrene	1.079	1.101		2.039	20.0
Indeno (1,2,3-cd) pyrene	1.364	1.396		2.346	
Dibenzo (a,h) anthracene	1.158	1.182		2.073	
Benzo (g,h,i) perylene	1.121	1.154		2.944	



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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

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Instrument ID: BNA_G Calibration Date/Time: 3/13/2024 1:13:26

Lab File ID: BG060625.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
1,2,4,5-Tetrachlorobenzene	0.614	0.613		-0.163	
1,4-Dioxane	0.533	0.521		-2.251	20.0
2,3,4,6-Tetrachlorophenol	0.389	0.406		4.37	
1-Methylnaphthalene	0.724	0.732		1.105	

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBG031324			SDG No.:	BG031324		
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
BG060629.D	1		3/13/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	39000		1000	8000	10000	ug/L
110-86-1	Pyridine	33300		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	37900		4000	8000	10000	ug/L
62-53-3	Aniline	40100		1600	4000	5000	ug/L
108-95-2	Phenol	41500		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	39400		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	40800		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	41800		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	42300		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	42400		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	41700		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	38600		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	40700		1400	4000	5000	ug/L
98-86-2	Acetophenone	41300		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	39200		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40000		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	42400		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	40500		1300	4000	5000	ug/L
78-59-1	Isophorone	42100		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	41400		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	34300		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40400		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	41500		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	41200		1100	4000	5000	ug/L
65-85-0	Benzoic acid	40500		5500	8000	10000	ug/L
91-20-3	Naphthalene	39800		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	39800		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	40400		1300	4000	5000	ug/L
105-60-2	Caprolactam	43100		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	42400		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	38000		1100	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBG031324			SDG No.:	BG031324		
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
BG060629.D	1		3/13/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	42400		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	40700		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	37800		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	40200		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	40600		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	42200		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	39400		930	4000	5000	ug/L
208-96-8	Acenaphthylene	41800		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	42900		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	40700		1400	4000	5000	ug/L
83-32-9	Acenaphthene	38700		810	4000	5000	ug/L
Total PAH	Total PAH	643400		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	39800		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	43100		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	39200		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	43500		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	86400		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	39300		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38400		980	4000	5000	ug/L
86-73-7	Fluorene	39300		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	41600		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	39300		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	40300		890	4000	5000	ug/L
103-33-3	Azobenzene	39200		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	40100		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	42700		1100	4000	5000	ug/L
1912-24-9	Atrazine	39500		1300	4000	5000	ug/L
87-86-5	Pentachlorophenol	37200		1900	8000	10000	ug/L
85-01-8	Phenanthrene	40200		890	4000	5000	ug/L
120-12-7	Anthracene	40200		1100	4000	5000	ug/L
86-74-8	Carbazole	41000		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	41900		1500	4000	5000	ug/L
206-44-0	Fluoranthene	40600		1300	4000	5000	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBG031324			SDG No.:	BG031324		
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
BG060629.D	1		3/13/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	43600		4100	8000	10000	ug/L
129-00-0	Pyrene	39900		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	41600		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	41900		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	40300		940	4000	5000	ug/L
218-01-9	Chrysene	39000		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	42900		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	42300		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	39200		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	38500		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	41700		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	41300		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	40600		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	36500		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41500		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	39900		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	76059	*	10-139		50706	SPK: -150
13127-88-3	Phenol-d6	76627	*	10-134		51085	SPK: -150
4165-60-0	Nitrobenzene-d5	76885	*	49-133		76885	SPK: -100
321-60-8	2-Fluorobiphenyl	72859	*	52-132		72859	SPK: -100
118-79-6	2,4,6-Tribromophenol	82547	*	32-145		55031	SPK: -150
1718-51-0	Terphenyl-d14	74791	*	36-145		74791	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	95545	8.323				
1146-65-2	Naphthalene-d8	445386	11.167				
15067-26-2	Acenaphthene-d10	303357	14.951				
1517-22-2	Phenanthrene-d10	629226	17.701				
1719-03-5	Chrysene-d12	565660	22.019				
1520-96-3	Perylene-d12	639152	25.574				



Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBG031324	SDG No.:	BG031324
Lab Sample ID:	SSTDICV040	Matrix:	Water
Analytical Method:	8270E	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000000 uL
Extraction Type :		Test:	
Injection Volume :		Decanted :	
		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060629.D	1		3/13/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Report of Analysis

Client:		Date Collected:	3/12/2024 12:00:00 AM
Project:		Date Received:	3/12/2024 12:00:00 AM
Client Sample ID:	PB159549BL	SDG No.:	BG031324
Lab Sample ID:	PB159549BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060630.D	1	3/12/2024 12:00:00 AM	3/13/2024 12:00:00 AM	PB159549

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	77.2	U	77.2	270	330	ug/Kg
110-86-1	Pyridine	72.3	U	72.3	130	170	ug/Kg
100-52-7	Benzaldehyde	150	U	150	270	330	ug/Kg
62-53-3	Aniline	120	U	120	130	170	ug/Kg
108-95-2	Phenol	74.3	U	74.3	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	89.7	U	89.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	71.9	U	71.9	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	81.6	U	81.6	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	88.4	U	88.4	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	82.3	U	82.3	130	170	ug/Kg
100-51-6	Benzyl Alcohol	98.7	U	98.7	270	330	ug/Kg
95-48-7	2-Methylphenol	110	U	110	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	130	170	ug/Kg
98-86-2	Acetophenone	86.6	U	86.6	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	58.9	U	58.9	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	73.5	U	73.5	130	170	ug/Kg
98-95-3	Nitrobenzene	75.1	U	75.1	130	170	ug/Kg
78-59-1	Isophorone	68	U	68	130	170	ug/Kg
88-75-5	2-Nitrophenol	95	U	95	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	99.5	U	99.5	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	78	U	78	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	77.4	U	77.4	130	170	ug/Kg
65-85-0	Benzoic acid	210	U	210	270	330	ug/Kg
91-20-3	Naphthalene	81.3	U	81.3	130	170	ug/Kg
106-47-8	4-Chloroaniline	100	U	100	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.9	U	83.9	130	170	ug/Kg
105-60-2	Caprolactam	120	U	120	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	82.4	U	82.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	94.8	U	94.8	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	3/12/2024 12:00:00 AM
Project:		Date Received:	3/12/2024 12:00:00 AM
Client Sample ID:	PB159549BL	SDG No.:	BG031324
Lab Sample ID:	PB159549BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060630.D	1	3/12/2024 12:00:00 AM	3/13/2024 12:00:00 AM	PB159549

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	210	U	210	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	77	U	77	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	87.8	U	87.8	130	170	ug/Kg
92-52-4	1,1-Biphenyl	91.2	U	91.2	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	84.5	U	84.5	130	170	ug/Kg
88-74-4	2-Nitroaniline	99.2	U	99.2	130	170	ug/Kg
131-11-3	Dimethylphthalate	88.8	U	88.8	130	170	ug/Kg
208-96-8	Acenaphthylene	88.3	U	88.3	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	89.9	U	89.9	130	170	ug/Kg
99-09-2	3-Nitroaniline	93.3	U	93.3	130	170	ug/Kg
83-32-9	Acenaphthene	80.2	U	80.2	130	170	ug/Kg
Total PAH	Total PAH	1436.7	U	1436.7	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	180	U	180	270	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	270	330	ug/Kg
132-64-9	Dibenzofuran	76.8	U	76.8	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	89.7	U	189.7	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	99.8	U	99.8	130	170	ug/Kg
84-66-2	Diethylphthalate	85.8	U	85.8	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	90.3	U	90.3	130	170	ug/Kg
86-73-7	Fluorene	84.7	U	84.7	130	170	ug/Kg
100-01-6	4-Nitroaniline	100	U	100	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	87.7	U	87.7	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.2	U	93.2	130	170	ug/Kg
103-33-3	Azobenzene	73.4	U	73.4	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	97.3	U	97.3	130	170	ug/Kg
118-74-1	Hexachlorobenzene	98.7	U	98.7	130	170	ug/Kg
1912-24-9	Atrazine	95.3	U	95.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	110	U	110	270	330	ug/Kg
85-01-8	Phenanthrene	92.6	U	92.6	130	170	ug/Kg
120-12-7	Anthracene	100	U	100	130	170	ug/Kg
86-74-8	Carbazole	84.8	U	84.8	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	130	170	ug/Kg
206-44-0	Fluoranthene	94.3	U	94.3	130	170	ug/Kg

Report of Analysis

Client:		Date Collected:	3/12/2024 12:00:00 AM
Project:		Date Received:	3/12/2024 12:00:00 AM
Client Sample ID:	PB159549BL	SDG No.:	BG031324
Lab Sample ID:	PB159549BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060630.D	1	3/12/2024 12:00:00 AM	3/13/2024 12:00:00 AM	PB159549

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benidine	190	U	190	270	330	ug/Kg
129-00-0	Pyrene	83.6	U	83.6	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	83.8	U	83.8	130	170	ug/Kg
218-01-9	Chrysene	86.7	U	86.7	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	80.2	U	80.2	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	88	U	88	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	94.2	U	94.2	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	96.4	U	96.4	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	92.4	U	92.4	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	89.3	U	89.3	130	170	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.8	U	82.8	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	90.1	U	90.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	130.965		18-112		87	SPK: -150
13127-88-3	Phenol-d6	124.145		15-107		83	SPK: -150
4165-60-0	Nitrobenzene-d5	78.903		18-107		79	SPK: -100
321-60-8	2-Fluorobiphenyl	77.348		20-109		77	SPK: -100
118-79-6	2,4,6-Tribromophenol	127.934		10-110		85	SPK: -150
1718-51-0	Terphenyl-d14	77.416		14-112		77	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	82620	8.323				
1146-65-2	Naphthalene-d8	372723	11.166				
15067-26-2	Acenaphthene-d10	258825	14.944				
1517-22-2	Phenanthrene-d10	603203	17.694				
1719-03-5	Chrysene-d12	564629	22.013				
1520-96-3	Perylene-d12	631597	25.567				



Report of Analysis

Client:		Date Collected:	3/12/2024 12:00:00 AM
Project:		Date Received:	3/12/2024 12:00:00 AM
Client Sample ID:	PB159549BL	SDG No.:	BG031324
Lab Sample ID:	PB159549BL	Matrix:	Solid
Analytical Method:	8270E	% Moisture:	0
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 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
BG060630.D	1	3/12/2024 12:00:00 AM	3/13/2024 12:00:00 AM	PB159549

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Hit Summary Sheet

SW-846

SDG No.: BG031324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	ICVBG031324							
SSTDICV040	ICVBG031324	Water	1,1-Biphenyl	40,200.000	910		5000	ug/L
SSTDICV040	ICVBG031324	Water	1,2,4,5-Tetrachlorobenzene	40,900.000	1100		5000	ug/L
SSTDICV040	ICVBG031324	Water	1,2,4-Trichlorobenzene	41,200.000	1100		5000	ug/L
SSTDICV040	ICVBG031324	Water	1,2-Dichlorobenzene	41,800.000	880		5000	ug/L
SSTDICV040	ICVBG031324	Water	1,3-Dichlorobenzene	42,300.000	800		5000	ug/L
SSTDICV040	ICVBG031324	Water	1,4-Dichlorobenzene	42,400.000	840		5000	ug/L
SSTDICV040	ICVBG031324	Water	1,4-Dioxane	36,500.000	1300		5000	ug/L
SSTDICV040	ICVBG031324	Water	1-Methylnaphthalene	39,900.000	860		5000	ug/L
SSTDICV040	ICVBG031324	Water	2,2-oxybis(1-Chloropropane)	40,700.000	1400		5000	ug/L
SSTDICV040	ICVBG031324	Water	2,3,4,6-Tetrachlorophenol	41,500.000	790		5000	ug/L
SSTDICV040	ICVBG031324	Water	2,4,5-Trichlorophenol	37,800.000	1000		5000	ug/L
SSTDICV040	ICVBG031324	Water	2,4,6-Trichlorophenol	40,700.000	890		5000	ug/L
SSTDICV040	ICVBG031324	Water	2,4-Dichlorophenol	41,500.000	880		5000	ug/L
SSTDICV040	ICVBG031324	Water	2,4-Dimethylphenol	34,300.000	1500		5000	ug/L
SSTDICV040	ICVBG031324	Water	2,4-Dinitrophenol	39,800.000	6400		10000	ug/L
SSTDICV040	ICVBG031324	Water	2,4-Dinitrotoluene	43,500.000	1500		5000	ug/L
SSTDICV040	ICVBG031324	Water	2,6-Dinitrotoluene	42,900.000	1200		5000	ug/L
SSTDICV040	ICVBG031324	Water	2-Chloronaphthalene	40,600.000	970		5000	ug/L
SSTDICV040	ICVBG031324	Water	2-Chlorophenol	40,800.000	710		5000	ug/L
SSTDICV040	ICVBG031324	Water	2-Methylnaphthalene	38,000.000	1100		5000	ug/L
SSTDICV040	ICVBG031324	Water	2-Methylphenol	38,600.000	1100		5000	ug/L
SSTDICV040	ICVBG031324	Water	2-Nitroaniline	42,200.000	1400		5000	ug/L
SSTDICV040	ICVBG031324	Water	2-Nitrophenol	41,400.000	2000		5000	ug/L
SSTDICV040	ICVBG031324	Water	3+4-Methylphenols	39,200.000	1200		10000	ug/L
SSTDICV040	ICVBG031324	Water	3,3-Dichlorobenzidine	41,900.000	1300		10000	ug/L
SSTDICV040	ICVBG031324	Water	3-Nitroaniline	40,700.000	1400		5000	ug/L
SSTDICV040	ICVBG031324	Water	4,6-Dinitro-2-methylphenol	39,300.000	3100		10000	ug/L
SSTDICV040	ICVBG031324	Water	4-Bromophenyl-phenylether	40,100.000	950		5000	ug/L
SSTDICV040	ICVBG031324	Water	4-Chloro-3-methylphenol	42,400.000	840		5000	ug/L
SSTDICV040	ICVBG031324	Water	4-Chloroaniline	39,800.000	1300		5000	ug/L
SSTDICV040	ICVBG031324	Water	4-Chlorophenyl-phenylether	38,400.000	980		5000	ug/L
SSTDICV040	ICVBG031324	Water	4-Nitroaniline	41,600.000	2000		5000	ug/L
SSTDICV040	ICVBG031324	Water	4-Nitrophenol	43,100.000	2000		10000	ug/L
SSTDICV040	ICVBG031324	Water	Acenaphthene	38,700.000	810		5000	ug/L
SSTDICV040	ICVBG031324	Water	Acenaphthylene	41,800.000	1000		5000	ug/L
SSTDICV040	ICVBG031324	Water	Acetophenone	41,300.000	1100		5000	ug/L
SSTDICV040	ICVBG031324	Water	Aniline	40,100.000	1600		5000	ug/L
SSTDICV040	ICVBG031324	Water	Anthracene	40,200.000	1100		5000	ug/L
SSTDICV040	ICVBG031324	Water	Atrazine	39,500.000	1300		5000	ug/L

Hit Summary Sheet SW-846

SDG No.: BG031324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBG031324	Water	Azobenzene	39,200.000		1200	5000	ug/L
SSTDICV040	ICVBG031324	Water	Benzaldehyde	37,900.000		4000	10000	ug/L
SSTDICV040	ICVBG031324	Water	Benzidine	43,600.000		4100	10000	ug/L
SSTDICV040	ICVBG031324	Water	Benzo(a)anthracene	40,300.000		940	5000	ug/L
SSTDICV040	ICVBG031324	Water	Benzo(a)pyrene	38,500.000		1700	5000	ug/L
SSTDICV040	ICVBG031324	Water	Benzo(b)fluoranthene	42,300.000		1100	5000	ug/L
SSTDICV040	ICVBG031324	Water	Benzo(g,h,i)perylene	40,600.000		1200	5000	ug/L
SSTDICV040	ICVBG031324	Water	Benzo(k)fluoranthene	39,200.000		1200	5000	ug/L
SSTDICV040	ICVBG031324	Water	Benzoic acid	40,500.000		5500	10000	ug/L
SSTDICV040	ICVBG031324	Water	Benzyl Alcohol	41,700.000		1600	10000	ug/L
SSTDICV040	ICVBG031324	Water	bis(2-Chloroethoxy)methane	40,400.000		1000	5000	ug/L
SSTDICV040	ICVBG031324	Water	bis(2-Chloroethyl)ether	39,400.000		1200	5000	ug/L
SSTDICV040	ICVBG031324	Water	Bis(2-ethylhexyl)phthalate	41,600.000		1900	5000	ug/L
SSTDICV040	ICVBG031324	Water	Butylbenzylphthalate	41,600.000		2100	5000	ug/L
SSTDICV040	ICVBG031324	Water	Caprolactam	43,100.000		1700	10000	ug/L
SSTDICV040	ICVBG031324	Water	Carbazole	41,000.000		1200	5000	ug/L
SSTDICV040	ICVBG031324	Water	Chrysene	39,000.000		860	5000	ug/L
SSTDICV040	ICVBG031324	Water	Di-n-butylphthalate	41,900.000		1500	5000	ug/L
SSTDICV040	ICVBG031324	Water	Di-n-octyl phthalate	42,900.000		2500	10000	ug/L
SSTDICV040	ICVBG031324	Water	Dibenzo(a,h)anthracene	41,300.000		1200	5000	ug/L
SSTDICV040	ICVBG031324	Water	Dibenzofuran	39,200.000		930	5000	ug/L
SSTDICV040	ICVBG031324	Water	Diethylphthalate	39,300.000		1000	5000	ug/L
SSTDICV040	ICVBG031324	Water	Dimethylphthalate	39,400.000		930	5000	ug/L
SSTDICV040	ICVBG031324	Water	Fluoranthene	40,600.000		1300	5000	ug/L
SSTDICV040	ICVBG031324	Water	Fluorene	39,300.000		960	5000	ug/L
SSTDICV040	ICVBG031324	Water	Hexachlorobenzene	42,700.000		1100	5000	ug/L
SSTDICV040	ICVBG031324	Water	Hexachlorobutadiene	40,400.000		1300	5000	ug/L
SSTDICV040	ICVBG031324	Water	Hexachlorocyclopentadiene	42,400.000		5000	10000	ug/L
SSTDICV040	ICVBG031324	Water	Hexachloroethane	42,400.000		1000	5000	ug/L
SSTDICV040	ICVBG031324	Water	Indeno(1,2,3-cd)pyrene	41,700.000		1000	5000	ug/L
SSTDICV040	ICVBG031324	Water	Isophorone	42,100.000		1100	5000	ug/L
SSTDICV040	ICVBG031324	Water	n-Nitroso-di-n-propylamine	40,000.000		1500	2500	ug/L
SSTDICV040	ICVBG031324	Water	n-Nitrosodimethylamine	39,000.000		1000	10000	ug/L
SSTDICV040	ICVBG031324	Water	n-Nitrosodiphenylamine	40,300.000		890	5000	ug/L
SSTDICV040	ICVBG031324	Water	Naphthalene	39,800.000		1000	5000	ug/L
SSTDICV040	ICVBG031324	Water	Nitrobenzene	40,500.000		1300	5000	ug/L
SSTDICV040	ICVBG031324	Water	Pentachlorophenol	37,200.000		1900	10000	ug/L
SSTDICV040	ICVBG031324	Water	Phenanthrene	40,200.000		890	5000	ug/L
SSTDICV040	ICVBG031324	Water	Phenol	41,500.000		930	5000	ug/L
SSTDICV040	ICVBG031324	Water	Pyrene	39,900.000		1100	5000	ug/L
SSTDICV040	ICVBG031324	Water	Pyridine	33,300.000		1600	5000	ug/L
SSTDICV040	ICVBG031324	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	86,400.000		2700	10000	ug/L



Hit Summary Sheet
SW-846

SDG No.: BG031324

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBG031324	Water	Total PAH	643,400.000		17360	80000	ug/L
			Total Svoc :	3,964,600.00				
			Total Concentration:	3,964,600.00				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BG031324

SAS No.: BG031324

SDG No.: BG031324

Instrument ID: _____

Calibration Date(s): 3/13/2024 : _____

Calibration Time(s): 10:44 : _____

LAB FILE ID:		RRF2.5 = BG060621.D			RRF005 = BG060622.D		RRF010 = BG060623.D	
		RRF020 = BG060624.D			RRF040 = BG060625.D		RRF050 = BG060626.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.789	0.750	0.812	0.776	0.759	0.772	3.2
Pyridine		1.589	1.575	1.626	1.587	1.551	1.574	2.1
2-Fluorophenol		1.257	1.230	1.334	1.299	1.283	1.272	3.0
Benzaldehyde		1.091	1.076	1.168	1.084	0.998	1.033	10.0
Aniline		2.137	2.220	2.319	2.328	2.299	2.255	3.2
Phenol-d6		1.710	1.816	1.952	1.917	1.867	1.846	4.4
Phenol		1.797	1.778	1.943	1.932	1.851	1.852	3.8
bis(2-Chloroethyl)ether		1.483	1.488	1.524	1.516	1.432	1.476	2.9
2-Chlorophenol		1.336	1.359	1.445	1.431	1.395	1.391	2.8
1,2-Dichlorobenzene		1.513	1.529	1.559	1.521	1.487	1.510	2.5
1,3-Dichlorobenzene		1.506	1.477	1.590	1.500	1.490	1.500	3.1
1,4-Dichlorobenzene		1.520	1.477	1.590	1.557	1.520	1.520	2.8
Benzyl Alcohol		1.340	1.384	1.495	1.549	1.475	1.459	5.0
2-Methylphenol		1.306	1.350	1.499	1.496	1.428	1.422	5.1
2,2-oxybis(1-Chloropropane)		2.752	2.810	3.040	2.934	2.837	2.866	3.6
Acetophenone		0.527	0.523	0.559	0.548	0.535	0.536	2.9
3+4-Methylphenols		1.786	1.826	1.984	2.023	1.927	1.918	4.6
n-Nitroso-di-n-propylamine	1.264	1.142	1.268	1.350	1.341	1.272	1.279	5.1
Nitrobenzene-d5		0.343	0.349	0.397	0.398	0.399	0.384	6.9
Hexachloroethane		0.481	0.506	0.552	0.526	0.519	0.519	4.4
Nitrobenzene		0.348	0.351	0.398	0.401	0.393	0.384	6.3
Isophorone		0.727	0.741	0.793	0.788	0.777	0.769	3.5
2-Nitrophenol		0.106	0.114	0.145	0.153	0.155	0.142	15.9
2,4-Dimethylphenol		0.380	0.332	0.349	0.337	0.329	0.340	5.8
bis(2-Chloroethoxy)methane		0.456	0.461	0.482	0.466	0.450	0.461	2.8
2,4-Dichlorophenol		0.285	0.295	0.310	0.316	0.310	0.306	3.9
1,2,4-Trichlorobenzene		0.324	0.329	0.336	0.322	0.318	0.324	2.6
Benzoic acid			0.113	0.170	0.217	0.221	0.199	24.5
Naphthalene		1.140	1.123	1.164	1.113	1.107	1.117	3.0
4-Chloroaniline		0.438	0.472	0.492	0.481	0.472	0.471	3.7
Hexachlorobutadiene		0.219	0.219	0.231	0.221	0.222	0.221	2.6
Caprolactam		0.087	0.101	0.108	0.106	0.105	0.103	6.9
4-Chloro-3-methylphenol		0.349	0.362	0.390	0.385	0.379	0.374	3.9
2-Methylnaphthalene		0.788	0.767	0.817	0.773	0.760	0.772	3.5
Hexachlorocyclopentadiene		0.245	0.254	0.304	0.315	0.321	0.302	12.7
2,4,6-Trichlorophenol		0.352	0.366	0.406	0.405	0.408	0.394	6.4

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.: BG031324

SAS No.: BG031324

SDG No.: BG031324

Instrument ID: _____

Calibration Date(s): 3/13/2024 : _____

Calibration Time(s): 10:44 : _____

LAB FILE ID:		RRF2.5 = BG060621.D			RRF005 = BG060622.D		RRF010 = BG060623.D	
		RRF020 = BG060624.D			RRF040 = BG060625.D		RRF050 = BG060626.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.509	1.518	1.596	1.471	1.459	1.479	5.3
2,4,5-Trichlorophenol		0.402	0.436	0.485	0.484	0.484	0.467	7.4
1,1-Biphenyl		1.523	1.534	1.593	1.520	1.499	1.520	2.9
2-Chloronaphthalene		1.089	1.148	1.203	1.169	1.137	1.147	3.4
2-Nitroaniline		0.277	0.327	0.376	0.411	0.416	0.379	15.0
Dimethylphthalate		1.434	1.504	1.571	1.522	1.499	1.500	3.3
Acenaphthylene		1.813	1.868	1.957	1.881	1.882	1.869	3.0
2,6-Dinitrotoluene		0.204	0.251	0.286	0.295	0.293	0.276	13.3
3-Nitroaniline		0.264	0.289	0.331	0.332	0.337	0.318	9.3
Acenaphthene		1.120	1.111	1.184	1.113	1.096	1.117	3.0
2,4-Dinitrophenol			0.077	0.099	0.123	0.126	0.118	21.6
4-Nitrophenol			0.195	0.226	0.246	0.251	0.237	9.8
Dibenzofuran		1.845	1.826	1.903	1.804	1.792	1.808	3.6
2,4-Dinitrotoluene		0.255	0.302	0.351	0.373	0.380	0.348	14.6
Diethylphthalate		1.496	1.559	1.617	1.554	1.538	1.543	3.1
4-Chlorophenyl-phenylether		0.725	0.741	0.776	0.729	0.724	0.733	3.1
Fluorene		1.413	1.464	1.532	1.453	1.436	1.447	3.6
4-Nitroaniline		0.252	0.307	0.338	0.347	0.344	0.326	10.9
4,6-Dinitro-2-methylphenol			0.057	0.076	0.087	0.087	0.083	17.6
n-Nitrosodiphenylamine		0.605	0.616	0.674	0.631	0.621	0.626	4.1
Azobenzene		1.524	1.600	1.696	1.621	1.589	1.597	3.6
2,4,6-Tribromophenol		0.178	0.218	0.234	0.245	0.248	0.232	11.5
4-Bromophenyl-phenylether		0.209	0.204	0.229	0.213	0.215	0.216	4.1
Hexachlorobenzene		0.241	0.248	0.260	0.247	0.245	0.248	2.7
Atrazine		0.192	0.207	0.224	0.214	0.209	0.209	4.8
Pentachlorophenol			0.119	0.153	0.170	0.170	0.161	13.6
Phenanthrene		1.100	1.098	1.162	1.071	1.048	1.077	4.9
Anthracene		1.082	1.102	1.158	1.092	1.075	1.089	3.9
Carbazole		0.896	0.961	1.017	0.954	0.950	0.947	4.4
Di-n-butylphthalate		1.044	1.139	1.244	1.198	1.172	1.154	5.8
Fluoranthene		1.170	1.192	1.283	1.212	1.194	1.192	4.5
Benzidine		0.414	0.407	0.436	0.545	0.520	0.489	14.1
Pyrene		1.385	1.423	1.489	1.414	1.375	1.396	4.4
Terphenyl-d14		1.201	1.204	1.244	1.096	1.065	1.106	10.8
Butylbenzylphthalate		0.436	0.477	0.542	0.557	0.560	0.528	9.7
3,3-Dichlorobenzidine		0.410	0.430	0.475	0.494	0.478	0.464	7.0

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.: BG031324

SAS No.: BG031324

SDG No.: BG031324

Instrument ID: _____

Calibration Date(s): 3/13/2024 : _____

Calibration Time(s): 10:44 : _____

LAB FILE ID:		RRF2.5 = BG060621.D			RRF005 = BG060622.D		RRF010 = BG060623.D	
		RRF020 = BG060624.D			RRF040 = BG060625.D		RRF050 = BG060626.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.342	1.372	1.434	1.402	1.382	1.377	2.9
Chrysene		1.344	1.335	1.385	1.346	1.320	1.337	2.7
Bis(2-ethylhexyl)phthalate		0.668	0.705	0.795	0.826	0.815	0.779	8.5
Di-n-octyl phthalate		1.039	1.134	1.296	1.375	1.368	1.283	11.1
Benzo(b)fluoranthene		1.030	1.059	1.149	1.137	1.097	1.100	4.2
Benzo(k)fluoranthene		1.112	1.106	1.207	1.164	1.174	1.156	3.3
Benzo(a)pyrene		1.013	1.002	1.121	1.101	1.098	1.079	4.8
Indeno(1,2,3-cd)pyrene		1.240	1.273	1.400	1.396	1.403	1.364	5.6
Dibenzo(a,h)anthracene		1.087	1.078	1.184	1.182	1.175	1.158	4.7
Benzo(g,h,i)perylene		1.019	1.059	1.152	1.154	1.146	1.121	5.3
1,2,4,5-Tetrachlorobenzene		0.590	0.611	0.639	0.613	0.619	0.614	2.8
1,4-Dioxane		0.574	0.543	0.583	0.521	0.514	0.533	7.1
2,3,4,6-Tetrachlorophenol		0.320	0.376	0.394	0.406	0.411	0.389	8.5
1-Methylnaphthalene		0.740	0.719	0.764	0.732	0.712	0.724	3.5

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BG031324 SAS No.: BG031324 SDG NO.: BG031324

EPA Sample No.: SSTDICCC040 Date Analyzed: Mar 13 2024 12:00AM

Lab File ID: BG060625.D Time Analyzed: 16:08

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	106013	8.324	497769	11.17	328973	14.95
UPPER LIMIT	212026	8.824	995538	11.673	657946	15.451
LOWER LIMIT	53006.5	7.824	248884.5	10.673	164486.5	14.451
EPA SAMPLE NO.						
01 ICVBG031324	95545	8.32	445386	11.17	303357	14.95
02 PB159549BL	82620	8.32	372723	11.17	258825	14.94

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BG031324 SAS No.: BG031324 SDG NO.: BG031324

EPA Sample No.: SSTDICCC040 Date Analyzed: Mar 13 2024 12:00AM

Lab File ID: BG060625.D Time Analyzed: 16:08

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	106013	8.324	497769	11.17	328973	14.95
UPPER LIMIT	212026	8.824	995538	11.673	657946	15.451
LOWER LIMIT	53006.5	7.824	248884.5	10.673	164486.5	14.451
EPA SAMPLE NO.						
01 ICVBG031324	95545	8.32	445386	11.17	303357	14.95
02 PB159549BL	82620	8.32	372723	11.17	258825	14.94

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BG031324 SAS No.: BG031324 SDG NO.: BG031324

EPA Sample No.: SSTDICCC040 Date Analyzed: Mar 13 2024 12:00AM

Lab File ID: BG060625.D Time Analyzed: 16:08

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	696137	17.701	617246	22.025	701669	25.574
UPPER LIMIT	1392274	18.201	1234492	22.525	1403338	26.074
LOWER LIMIT	348068.5	17.201	308623	21.525	350834.5	25.074
EPA SAMPLE NO.						
01 ICVBG031324	629226	17.70	565660	22.02	639152	25.57
02 PB159549BL	603203	17.69	564629	22.01	631597	25.57

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BG031324 SAS No.: BG031324 SDG NO.: BG031324

EPA Sample No.: SSTDICCC040 Date Analyzed: Mar 13 2024 12:00AM

Lab File ID: BG060625.D Time Analyzed: 16:08

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	696137	17.701	617246	22.025	701669	25.574
UPPER LIMIT	1392274	18.201	1234492	22.525	1403338	26.074
LOWER LIMIT	348068.5	17.201	308623	21.525	350834.5	25.074
EPA SAMPLE NO.						
01 ICVBG031324	629226	17.70	565660	22.02	639152	25.57
02 PB159549BL	603203	17.69	564629	22.01	631597	25.57

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.

ICVBG031324

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BG031324SAS No.: BG031324 SDG NO.: BG031324Lab File ID: BG060629.DLab Sample ID: SSTDICV040Instrument ID: BNA_G

Date Extracted: _____

Matrix: (soil/water) WaterDate Analyzed: 03/13/2024Level: (low/med) LOWTime Analyzed: 16:08

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBG031324	SSTDICV040	BG060629.D	03/13/2024

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159549BL

Lab Name: CHEMTECH

Contract:

Lab Code: CHEM Case No.: BG031324

SAS No.: BG031324 SDG NO.: BG031324

Lab File ID: BG060630.D

Lab Sample ID: PB159549BL

Instrument ID: BNA_G

Date Extracted: 03/12/2024

Matrix: (soil/water) Solid

Date Analyzed: 03/13/2024

Level: (low/med) LOW

Time Analyzed: 17:38

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.: BG031324

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV040	ICVBG031324	BG060629.D	2-Fluorophenol	150	76,059.00	50706	*	10	139
			Phenol-d6	150	76,627.00	51085	*	10	134
			Nitrobenzene-d5	100	76,885.00	76885	*	49	133
			2-Fluorobiphenyl	100	72,859.00	72859	*	52	132
			2,4,6-Tribromophenol	150	82,547.00	55031	*	32	145
			Terphenyl-d14	100	74,791.00	74791	*	36	145



Surrogate Summary
SW-846

SDG No.: BG031324

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB159549BL	PB159549BL	BG060630.D	2-Fluorophenol	150	130.97	87		18	112
			Phenol-d6	150	124.15	83		15	107
			Nitrobenzene-d5	100	78.90	79		18	107
			2-Fluorobiphenyl	100	77.35	77		20	109
			2,4,6-Tribromophenol	150	127.93	85		10	110
			Terphenyl-d14	100	77.42	77		14	112



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BG031324Lab Code: CHEMSAS No.: BG031324 SDG NO.: BG031324Lab File ID: BG060620.DDFTPP Injection Date: 03/13/2024Instrument ID: BNA_GDFTPP Injection Time: 10:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	47.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	37
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	43.8
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	6.9
275	10.0 - 60.0% of mass 198	27.8
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	86.2
443	15.0 - 24.0% of mass 442	16.3 (18.9) 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	BG060621.D	03/13/2024	10:44
SSTDICC005	SSTDICC005	BG060622.D	03/13/2024	11:24
SSTDICC010	SSTDICC010	BG060623.D	03/13/2024	12:04
SSTDICC020	SSTDICC020	BG060624.D	03/13/2024	12:45
SSTDICCC040	SSTDICCC040	BG060625.D	03/13/2024	13:26
SSTDICC050	SSTDICC050	BG060626.D	03/13/2024	14:06
SSTDICC060	SSTDICC060	BG060627.D	03/13/2024	14:47
SSTDICC080	SSTDICC080	BG060628.D	03/13/2024	15:27
ICVBG031324	SSTDICV040	BG060629.D	03/13/2024	16:08
PB159549BL	PB159549BL	BG060630.D	03/13/2024	17:38