

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN010625 SAS No.: BN010625 SDG No.: BN010625
Instrument ID: BNA_N Calibration Date/Time: 1/6/2025 12:10:05
Lab File ID: BN035889.D Init. Calib. Date(s): _____
EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.512		-4.478	20.0
Fluoranthene-d10	0.993	0.943		-5.035	20.0
n-Nitrosodimethylamine	0.693	0.686		-1.01	20.0
2-Fluorophenol	0.981	0.943		-3.874	20.0
Phenol-d6	1.219	1.178		-3.363	20.0
bis(2-Chloroethyl)ether	0.929	0.961		3.445	20.0
Nitrobenzene-d5	0.317	0.336		5.994	20.0
Naphthalene	1.123	1.106		-1.514	20.0
Hexachlorobutadiene	0.365	0.360		-1.37	20.0
2-Methylnaphthalene	0.695	0.663		-4.604	20.0
2-Fluorobiphenyl	1.755	1.764		0.513	20.0
Acenaphthylene	1.884	1.846		-2.017	20.0
Acenaphthene	1.235	1.218		-1.377	20.0
Fluorene	1.359	1.272		-6.402	20.0
4,6-Dinitro-2-methylphenol	0.069	0.077		11.594	20.0
2,4,6-Tribromophenol	0.192	0.181		-5.729	20.0
4-Bromophenyl-phenylether	0.274	0.262		-4.38	20.0
Hexachlorobenzene	0.374	0.366		-2.139	20.0
Atrazine	0.184	0.164		-10.87	20.0
Pentachlorophenol	0.132	0.129		-2.273	20.0
Phenanthrene	1.167	1.130		-3.171	20.0
Anthracene	1.062	0.998		-6.026	20.0
Fluoranthene	1.361	1.267		-6.907	20.0
Pyrene	1.624	1.529		-5.85	20.0
Terphenyl-d14	0.797	0.753		-5.521	20.0
Benzo(a)anthracene	1.410	1.344		-4.681	20.0
Chrysene	1.475	1.431		-2.983	20.0
Bis(2-ethylhexyl)phthalate	0.574	0.522		-9.059	20.0
Benzo(b)fluoranthene	1.374	1.260		-8.297	20.0
Benzo(k)fluoranthene	1.360	1.264		-7.059	20.0
Benzo(a)pyrene	1.190	1.104		-7.227	20.0
Indeno(1,2,3-cd)pyrene	1.577	1.437		-8.878	20.0
Dibenzo(a,h)anthracene	1.255	1.134		-9.641	20.0
Benzo(g,h,i)perylene	1.403	1.287		-8.268	20.0
1,4-Dioxane	0.397	0.401		1.008	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN010625 SAS No.: BN010625 SDG No.: BN010625

Instrument ID: BNA_N Calibration Date/Time: 1/6/2025 12:13:43

Lab File ID: BN035895.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.512		-4.478	50.0
Fluoranthene-d10	0.993	0.949		-4.431	50.0
n-Nitrosodimethylamine	0.693	0.708		2.165	50.0
2-Fluorophenol	0.981	0.939		-4.281	50.0
Phenol-d6	1.219	1.130		-7.301	50.0
bis(2-Chloroethyl)ether	0.929	0.913		-1.722	50.0
Nitrobenzene-d5	0.317	0.324		2.208	50.0
Naphthalene	1.123	1.117		-0.534	50.0
Hexachlorobutadiene	0.365	0.367		0.548	50.0
2-Methylnaphthalene	0.695	0.676		-2.734	50.0
2-Fluorobiphenyl	1.755	1.775		1.14	50.0
Acenaphthylene	1.884	1.843		-2.176	50.0
Acenaphthene	1.235	1.250		1.215	50.0
Fluorene	1.359	1.357		-0.147	50.0
4,6-Dinitro-2-methylphenol	0.069	0.077		11.594	50.0
2,4,6-Tribromophenol	0.192	0.222		15.625	50.0
4-Bromophenyl-phenylether	0.274	0.275		0.365	50.0
Hexachlorobenzene	0.374	0.369		-1.337	50.0
Atrazine	0.184	0.180		-2.174	50.0
Pentachlorophenol	0.132	0.136		3.03	50.0
Phenanthrene	1.167	1.132		-2.999	50.0
Anthracene	1.062	1.007		-5.179	50.0
Fluoranthene	1.361	1.308		-3.894	50.0
Pyrene	1.624	1.619		-0.308	50.0
Terphenyl-d14	0.797	0.761		-4.517	50.0
Benzo(a)anthracene	1.410	1.372		-2.695	50.0
Chrysene	1.475	1.451		-1.627	50.0
Bis(2-ethylhexyl)phthalate	0.574	0.604		5.226	50.0
Benzo(b)fluoranthene	1.374	1.356		-1.31	50.0
Benzo(k)fluoranthene	1.360	1.300		-4.412	50.0
Benzo(a)pyrene	1.190	1.122		-5.714	50.0
Indeno(1,2,3-cd)pyrene	1.577	1.474		-6.531	50.0
Dibenzo(a,h)anthracene	1.255	1.156		-7.888	50.0
Benzo(g,h,i)perylene	1.403	1.310		-6.629	50.0
1,4-Dioxane	0.397	0.388		-2.267	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	1/3/2025 12:00:00 AM
Project:		Date Received:	1/3/2025 12:00:00 AM
Client Sample ID:	PB165947BL	SDG No.:	BN010625
Lab Sample ID:	PB165947BL	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035890.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.03	U	0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.03	U	0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.02	U	0.02	0.1	0.1	ug/L
87-68-3	Hexachlorobutadiene	0.03	U	0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.03	U	0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.02	U	0.02	0.1	0.1	ug/L
Total PAH	Total PAH	0.45	U	0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.14	U	0.14	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.03	U	0.03	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.03	U	0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.02	U	0.02	0.1	0.1	ug/L
87-86-5	Pentachlorophenol	0.09	U	0.09	0.2	0.2	ug/L
85-01-8	Phenanthrene	0.02	U	0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.02	U	0.02	0.1	0.1	ug/L
206-44-0	Fluoranthene	0.02	U	0.02	0.1	0.1	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.03	U	0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.14	U	0.14	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.03	U	0.03	0.1	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.03	U	0.03	0.1	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.06	U	0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.04	U	0.04	0.1	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.04	U	0.04	0.1	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.04	U	0.04	0.1	0.1	ug/L
123-91-1	1,4-Dioxane	0.07	U	0.07	0.2	0.2	ug/L

Report of Analysis

Client:		Date Collected:	1/3/2025 12:00:00 AM
Project:		Date Received:	1/3/2025 12:00:00 AM
Client Sample ID:	PB165947BL	SDG No.:	BN010625
Lab Sample ID:	PB165947BL	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035890.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.396		20-139		99	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.406		30-150		101	SPK: -0.4
367-12-4	2-Fluorophenol	0.321		10-100		80	SPK: -0.4
13127-88-3	Phenol-d6	0.318		10-100		79	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.411		27-123		103	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.393		34-132		98	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.271		10-131		68	SPK: -0.4
1718-51-0	Terphenyl-d14	0.427		35-157		107	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1890	7.832				
1146-65-2	Naphthalene-d8	3618	10.622				
15067-26-2	Acenaphthene-d10	1759	14.463				
1517-22-2	Phenanthrene-d10	3309	17.199				
1719-03-5	Chrysene-d12	2801	21.385				
1520-96-3	Perylene-d12	3280	23.686				

Report of Analysis

Client:		Date Collected:	12/31/2024 12:00:00 AM
Project:		Date Received:	12/31/2024 12:00:00 AM
Client Sample ID:	VPB190A-HYD-20241231	SDG No.:	BN010625
Lab Sample ID:	Q1004-02	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035891.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.03	U	0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.03	U	0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.02	U	0.02	0.1	0.1	ug/L
87-68-3	Hexachlorobutadiene	0.03	U	0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.03	U	0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.02	U	0.02	0.1	0.1	ug/L
Total PAH	Total PAH	0.45	U	0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.14	U	0.14	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.03	U	0.03	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.03	U	0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.02	U	0.02	0.1	0.1	ug/L
87-86-5	Pentachlorophenol	0.09	U	0.09	0.2	0.2	ug/L
85-01-8	Phenanthrene	0.02	U	0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.02	U	0.02	0.1	0.1	ug/L
206-44-0	Fluoranthene	0.02	U	0.02	0.1	0.1	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.03	U	0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.61		0.14	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.03	U	0.03	0.1	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.03	U	0.03	0.1	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.06	U	0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.04	U	0.04	0.1	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.04	U	0.04	0.1	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.04	U	0.04	0.1	0.1	ug/L
123-91-1	1,4-Dioxane	0.07	U	0.07	0.2	0.2	ug/L

Report of Analysis

Client:		Date Collected:	12/31/2024 12:00:00 AM
Project:		Date Received:	12/31/2024 12:00:00 AM
Client Sample ID:	VPB190A-HYD-20241231	SDG No.:	BN010625
Lab Sample ID:	Q1004-02	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035891.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.147		20-139		37	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.262		30-150		65	SPK: -0.4
367-12-4	2-Fluorophenol	0.019	*	10-100		5	SPK: -0.4
13127-88-3	Phenol-d6	0.002	*	10-100		1	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.329		27-123		82	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.322		34-132		81	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.136		10-131		34	SPK: -0.4
1718-51-0	Terphenyl-d14	0.403		35-157		101	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1206	7.832				
1146-65-2	Naphthalene-d8	2348	10.622				
15067-26-2	Acenaphthene-d10	1163	14.469				
1517-22-2	Phenanthrene-d10	2323	17.206				
1719-03-5	Chrysene-d12	2025	21.384				
1520-96-3	Perylene-d12	2231	23.689				

Report of Analysis

Client:		Date Collected:	1/2/2025 12:00:00 AM
Project:		Date Received:	1/2/2025 12:00:00 AM
Client Sample ID:	BP-VPB-190A-GW-803-805	SDG No.:	BN010625
Lab Sample ID:	Q1004-05	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035892.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.04	U	0.04	0.24	0.24	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.03	U	0.03	0.12	0.12	ug/L
91-20-3	Naphthalene	0.03	U	0.03	0.12	0.12	ug/L
87-68-3	Hexachlorobutadiene	0.03	U	0.03	0.12	0.12	ug/L
91-57-6	2-Methylnaphthalene	0.04	U	0.04	0.12	0.12	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.12	0.12	ug/L
83-32-9	Acenaphthene	0.02	U	0.02	0.12	0.12	ug/L
Total PAH	Total PAH	0.54	U	0.54	0.12	1.92	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.12	0.12	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.16	U	0.16	0.24	0.24	ug/L
101-55-3	4-Bromophenyl-phenylether	0.03	U	0.03	0.12	0.12	ug/L
118-74-1	Hexachlorobenzene	0.03	U	0.03	0.12	0.12	ug/L
1912-24-9	Atrazine	0.03	U	0.03	0.12	0.12	ug/L
87-86-5	Pentachlorophenol	0.11	U	0.11	0.24	0.24	ug/L
85-01-8	Phenanthrene	0.03	J	0.02	0.12	0.12	ug/L
120-12-7	Anthracene	0.03	U	0.03	0.12	0.12	ug/L
206-44-0	Fluoranthene	0.03	U	0.03	0.12	0.12	ug/L
129-00-0	Pyrene	0.03	U	0.03	0.12	0.12	ug/L
56-55-3	Benzo(a)anthracene	0.03	U	0.03	0.12	0.12	ug/L
218-01-9	Chrysene	0.03	U	0.03	0.12	0.12	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.91		0.16	0.24	0.24	ug/L
205-99-2	Benzo(b)fluoranthene	0.04	U	0.04	0.12	0.12	ug/L
207-08-9	Benzo(k)fluoranthene	0.04	U	0.04	0.12	0.12	ug/L
50-32-8	Benzo(a)pyrene	0.07	U	0.07	0.12	0.12	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.04	U	0.04	0.12	0.12	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.05	U	0.05	0.12	0.12	ug/L
191-24-2	Benzo(g,h,i)perylene	0.04	U	0.04	0.12	0.12	ug/L
123-91-1	1,4-Dioxane	0.08	U	0.08	0.24	0.24	ug/L

Report of Analysis

Client:		Date Collected:	1/2/2025 12:00:00 AM
Project:		Date Received:	1/2/2025 12:00:00 AM
Client Sample ID:	BP-VPB-190A-GW-803-805	SDG No.:	BN010625
Lab Sample ID:	Q1004-05	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035892.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.309		20-139		77	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.323		30-150		81	SPK: -0.4
367-12-4	2-Fluorophenol	0.063		10-100		16	SPK: -0.4
13127-88-3	Phenol-d6	0.039		10-100		10	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.305		27-123		76	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.254		34-132		63	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.152		10-131		38	SPK: -0.4
1718-51-0	Terphenyl-d14	0.395		35-157		99	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1016	7.831				
1146-65-2	Naphthalene-d8	2057	10.622				
15067-26-2	Acenaphthene-d10	1217	14.463				
1517-22-2	Phenanthrene-d10	2394	17.199				
1719-03-5	Chrysene-d12	2243	21.385				
1520-96-3	Perylene-d12	2747	23.686				

Report of Analysis

Client:		Date Collected:	1/3/2025 12:00:00 AM
Project:		Date Received:	1/3/2025 12:00:00 AM
Client Sample ID:	PB165947BS	SDG No.:	BN010625
Lab Sample ID:	PB165947BS	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035893.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.38		0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.41		0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.41		0.02	0.1	0.1	ug/L
87-68-3	Hexachlorobutadiene	0.35		0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.4		0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.42		0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.4		0.02	0.1	0.1	ug/L
Total PAH	Total PAH	6.41		0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.37		0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.37		0.14	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.38		0.03	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.38		0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.37		0.02	0.1	0.1	ug/L
87-86-5	Pentachlorophenol	0.32		0.09	0.2	0.2	ug/L
85-01-8	Phenanthrene	0.41		0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.41		0.02	0.1	0.1	ug/L
206-44-0	Fluoranthene	0.36		0.02	0.1	0.1	ug/L
129-00-0	Pyrene	0.4		0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.4		0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.41		0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.4		0.14	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.39		0.03	0.1	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.4		0.03	0.1	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.42		0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.42		0.04	0.1	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.41		0.04	0.1	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.38		0.04	0.1	0.1	ug/L
123-91-1	1,4-Dioxane	0.33		0.07	0.2	0.2	ug/L

Report of Analysis

Client:		Date Collected:	1/3/2025 12:00:00 AM
Project:		Date Received:	1/3/2025 12:00:00 AM
Client Sample ID:	PB165947BS	SDG No.:	BN010625
Lab Sample ID:	PB165947BS	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035893.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.393		20-139		98	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.38		30-150		95	SPK: -0.4
367-12-4	2-Fluorophenol	0.329		10-100		82	SPK: -0.4
13127-88-3	Phenol-d6	0.316		10-100		79	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.403		27-123		101	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.393		34-132		98	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.229		10-131		57	SPK: -0.4
1718-51-0	Terphenyl-d14	0.42		35-157		105	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2068	7.832				
1146-65-2	Naphthalene-d8	4038	10.622				
15067-26-2	Acenaphthene-d10	1913	14.463				
1517-22-2	Phenanthrene-d10	3390	17.199				
1719-03-5	Chrysene-d12	2688	21.385				
1520-96-3	Perylene-d12	3023	23.689				

Report of Analysis

Client:		Date Collected:	1/3/2025 12:00:00 AM
Project:		Date Received:	1/3/2025 12:00:00 AM
Client Sample ID:	PB165947BSD	SDG No.:	BN010625
Lab Sample ID:	PB165947BSD	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035894.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.45		0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.46		0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.43		0.02	0.1	0.1	ug/L
87-68-3	Hexachlorobutadiene	0.43		0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.44		0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.46		0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.45		0.02	0.1	0.1	ug/L
Total PAH	Total PAH	7.17		0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.42		0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.47		0.14	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.45		0.03	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.45		0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.43		0.02	0.1	0.1	ug/L
87-86-5	Pentachlorophenol	0.35		0.09	0.2	0.2	ug/L
85-01-8	Phenanthrene	0.45		0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.46		0.02	0.1	0.1	ug/L
206-44-0	Fluoranthene	0.42		0.02	0.1	0.1	ug/L
129-00-0	Pyrene	0.45		0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.45		0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.45		0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.46		0.14	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.44		0.03	0.1	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.45		0.03	0.1	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.47		0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.48		0.04	0.1	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.46		0.04	0.1	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.43		0.04	0.1	0.1	ug/L
123-91-1	1,4-Dioxane	0.42		0.07	0.2	0.2	ug/L

Report of Analysis

Client:		Date Collected:	1/3/2025 12:00:00 AM
Project:		Date Received:	1/3/2025 12:00:00 AM
Client Sample ID:	PB165947BSD	SDG No.:	BN010625
Lab Sample ID:	PB165947BSD	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035894.D	1	1/3/2025 12:00:00 AM	1/6/2025 12:00:00 AM	PB165947

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.454		20-139		113	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.448		30-150		112	SPK: -0.4
367-12-4	2-Fluorophenol	0.376		10-100		94	SPK: -0.4
13127-88-3	Phenol-d6	0.361		10-100		90	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.452		27-123		113	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.457		34-132		114	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.182		10-131		45	SPK: -0.4
1718-51-0	Terphenyl-d14	0.498		35-157		125	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1330	7.831				
1146-65-2	Naphthalene-d8	2636	10.621				
15067-26-2	Acenaphthene-d10	1250	14.463				
1517-22-2	Phenanthrene-d10	2246	17.198				
1719-03-5	Chrysene-d12	1808	21.385				
1520-96-3	Perylene-d12	2017	23.686				



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

Hit Summary Sheet
SW-846

SDG No.: BN010625

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : VPB190A-HYD-20241231							
Q1004-02	VPB190A-HYD-20241231 Water	Bis(2-ethylhexyl)phthalate	0.610		0.14	0.2	ug/L
		Total Svoc :			0.61		
		Total Concentration:			0.61		
Client ID : BP-VPB-190A-GW-803-805							
Q1004-05	BP-VPB-190A-GW-803- Water	Bis(2-ethylhexyl)phthalate	0.910		0.16	0.24	ug/L
Q1004-05	BP-VPB-190A-GW-803- Water	Phenanthrene	0.030	J	0.02	0.12	ug/L
		Total Svoc :			0.94		
		Total Concentration:			0.94		

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN010225 SAS No.: BN010225 SDG No.: BN010225

Instrument ID: _____ Calibration Date(s): 1/2/2025 1: _____

Calibration Time(s): 11:28 _____

LAB FILE ID:		RRF0.1 = BN035871.D		RRF0.2 = BN035872.D		RRF0.4 = BN035873.D		
		RRF0.8 = BN035874.D		RRF1.6 = BN035875.D		RRF3.2 = BN035876.D		
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.547	0.536	0.527	0.519	0.556	0.524	0.536	2.5
Fluoranthene-d10	0.988	0.952	0.978	0.959	1.028	1.010	0.993	3.3
n-Nitrosodimethylamine	0.707	0.674	0.676	0.690	0.722	0.690	0.693	2.5
2-Fluorophenol	1.031	1.009	0.952	0.958	0.997	0.956	0.981	3.1
Phenol-d6	1.351	1.255	1.180	1.197	1.215	1.163	1.219	5.4
bis(2-Chloroethyl)ether	1.001	0.946	0.936	0.913	0.938	0.886	0.929	4.4
Nitrobenzene-d5	0.346	0.307	0.296	0.302	0.319	0.317	0.317	5.5
Naphthalene	1.163	1.094	1.086	1.096	1.167	1.113	1.123	3.0
Hexachlorobutadiene	0.368	0.354	0.353	0.364	0.382	0.362	0.365	2.7
2-Methylnaphthalene	0.691	0.654	0.685	0.680	0.731	0.701	0.695	3.7
2-Fluorobiphenyl	1.776	1.675	1.708	1.765	1.823	1.779	1.755	2.8
Acenaphthylene	1.890	1.766	1.819	1.839	1.962	1.948	1.884	4.1
Acenaphthene	1.187	1.162	1.198	1.232	1.300	1.275	1.235	4.4
Fluorene	1.341	1.270	1.307	1.298	1.419	1.444	1.359	5.3
4,6-Dinitro-2-methylphenol	0.058	0.066	0.067	0.069	0.076	0.076	0.069	9.5
2,4,6-Tribromophenol	0.164	0.165	0.189	0.189	0.207	0.211	0.192	11.4
4-Bromophenyl-phenylether	0.265	0.269	0.268	0.267	0.290	0.283	0.274	3.5
Hexachlorobenzene	0.393	0.369	0.356	0.362	0.394	0.373	0.374	3.9
Atrazine	0.169	0.191	0.176	0.171	0.198	0.190	0.184	6.4
Pentachlorophenol	0.141	0.101	0.118	0.122	0.143	0.148	0.132	14.4
Phenanthrene	1.131	1.132	1.142	1.144	1.228	1.193	1.167	3.4
Anthracene	0.996	0.998	1.008	1.033	1.137	1.132	1.062	6.3
Fluoranthene	1.268	1.253	1.330	1.312	1.441	1.446	1.361	6.7
Pyrene	1.606	1.620	1.571	1.612	1.711	1.621	1.624	2.6
Terphenyl-d14	0.814	0.813	0.790	0.777	0.828	0.776	0.797	2.6
Benzo (a) anthracene	1.379	1.382	1.344	1.407	1.461	1.427	1.410	3.2
Chrysene	1.484	1.458	1.441	1.451	1.541	1.478	1.475	2.2
Bis(2-ethylhexyl)phthalate	0.691	0.583	0.582	0.541	0.569	0.519	0.574	10.1
Benzo (b) fluoranthene	1.337	1.304	1.294	1.351	1.466	1.420	1.374	5.1
Benzo (k) fluoranthene	1.279	1.254	1.251	1.344	1.469	1.442	1.360	7.6
Benzo (a) pyrene	1.099	1.181	1.086	1.163	1.270	1.244	1.190	6.7
Indeno (1,2,3-cd) pyrene	1.428	1.461	1.414	1.578	1.697	1.712	1.577	9.1
Dibenzo (a,h) anthracene	1.145	1.152	1.106	1.251	1.363	1.365	1.255	9.8
Benzo (g,h,i) perylene	1.335	1.316	1.245	1.407	1.490	1.501	1.403	7.7
1,4-Dioxane	0.454	0.422	0.373	0.388	0.391	0.377	0.397	7.5

All other compounds must meet a minimum RRF of 0.010.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN010625 SAS No.: BN010625 SDG NO.: BN010625

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 6 2025 12:00AM

Lab File ID: BN035873.D Time Analyzed: 10:41

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1261	7.836	2582	10.63	1358	14.46
UPPER LIMIT	2522	8.336	5164	11.126	2716	14.962
LOWER LIMIT	630.5	7.336	1291	10.126	679	13.962
EPA SAMPLE NO.						
01 PB165947BL	1890	7.83	3618	10.62	1759	14.46
02 VPB190A-HYD-20241231	1206	7.83	2348	10.62	1163	14.47
03 BP-VPB-190A-GW-803-805	1016	7.83	2057	10.62	1217	14.46
04 PB165947BS	2068	7.83	4038	10.62	1913	14.46
05 PB165947BSD	1330	7.83	2636	10.62	1250	14.46

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.: BN010625 SAS No.: BN010625 SDG NO.: BN010625

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Jan 6 2025 12:00AM

Lab File ID: BN035889.D Time Analyzed: 10:41

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1532	7.832	2905	10.62	1384	14.47
UPPER LIMIT	3064	8.332	5810	11.122	2768	14.968
LOWER LIMIT	766	7.332	1452.5	10.122	692	13.968
EPA SAMPLE NO.						
01 PB165947BL	1890	7.83	3618	10.62	1759	14.46
02 VPB190A-HYD-20241231	1206	7.83	2348	10.62	1163	14.47
03 BP-VPB-190A-GW-803-805	1016	7.83	2057	10.62	1217	14.46
04 PB165947BS	2068	7.83	4038	10.62	1913	14.46
05 PB165947BSD	1330	7.83	2636	10.62	1250	14.46

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.: BN010625 SAS No.: BN010625 SDG NO.: BN010625

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 6 2025 12:00AM

Lab File ID: BN035873.D Time Analyzed: 10:41

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2769	17.21	2381	21.384	2623	23.694
UPPER LIMIT	5538	17.71	4762	21.884	5246	24.194
LOWER LIMIT	1384.5	16.71	1190.5	20.884	1311.5	23.194
EPA SAMPLE NO.						
01 PB165947BL	3309	17.20	2801	21.39	3280	23.69
02 VPB190A-HYD-20241231	2323	17.21	2025	21.38	2231	23.69
03 BP-VPB-190A-GW-803-805	2394	17.20	2243	21.39	2747	23.69
04 PB165947BS	3390	17.20	2688	21.39	3023	23.69
05 PB165947BSD	2246	17.20	1808	21.39	2017	23.69

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.: BN010625 SAS No.: BN010625 SDG NO.: BN010625

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Jan 6 2025 12:00AM

Lab File ID: BN035889.D Time Analyzed: 10:41

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2666	17.206	2259	21.384	2595	23.686
UPPER LIMIT	5332	17.706	4518	21.884	5190	24.186
LOWER LIMIT	1333	16.706	1129.5	20.884	1297.5	23.186
EPA SAMPLE NO.						
01 PB165947BL	3309	17.20	2801	21.39	3280	23.69
02 VPB190A-HYD-20241231	2323	17.21	2025	21.38	2231	23.69
03 BP-VPB-190A-GW-803-805	2394	17.20	2243	21.39	2747	23.69
04 PB165947BS	3390	17.20	2688	21.39	3023	23.69
05 PB165947BSD	2246	17.20	1808	21.39	2017	23.69

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.

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BN010625

Client: _____

Analytical Method: **8270-Modified**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
PB165947BS	n-Nitrosodimethylamine	0.4	0.38	ug/L	95				33	130	
	bis(2-Chloroethyl)ether	0.4	0.41	ug/L	103				55	118	
	Naphthalene	0.4	0.41	ug/L	103				67	120	
	Hexachlorobutadiene	0.4	0.35	ug/L	88				33	114	
	2-Methylnaphthalene	0.4	0.4	ug/L	100				50	122	
	Acenaphthylene	0.4	0.42	ug/L	105				60	119	
	Acenaphthene	0.4	0.4	ug/L	100				65	119	
	Total PAH	6.4	6.41	ug/L	100				65	119	
	Fluorene	0.4	0.37	ug/L	93				58	122	
	4,6-Dinitro-2-methylphenol	0.4	0.37	ug/L	93				20	150	
	4-Bromophenyl-phenylether	0.4	0.38	ug/L	95				20	150	
	Hexachlorobenzene	0.4	0.38	ug/L	95				62	127	
	Atrazine	0.4	0.37	ug/L	93				20	150	
	Pentachlorophenol	0.8	0.32	ug/L	40				10	137	
	Phenanthrene	0.4	0.41	ug/L	103				65	117	
	Anthracene	0.4	0.41	ug/L	103				57	118	
	Fluoranthene	0.4	0.36	ug/L	90				53	126	
	Pyrene	0.4	0.4	ug/L	100				54	124	
	Benzo(a)anthracene	0.4	0.4	ug/L	100				54	130	
	Chrysene	0.4	0.41	ug/L	103				64	126	
	bis(2-Ethylhexyl)phthalate	0.4	0.4	ug/L	100				40	137	
	Benzo(b)fluoranthene	0.4	0.39	ug/L	98				65	121	
	Benzo(k)fluoranthene	0.4	0.4	ug/L	100				72	119	
	Benzo(a)pyrene	0.4	0.42	ug/L	105				68	120	
	Indeno(1,2,3-cd)pyrene	0.4	0.42	ug/L	105				70	127	
	Dibenz(a,h)anthracene	0.4	0.41	ug/L	103				65	121	
	Benzo(g,h,i)perylene	0.4	0.38	ug/L	95				76	117	
	1,4-Dioxane	0.4	0.33	ug/L	83				42	127	
PB165947BSD	n-Nitrosodimethylamine	0.4	0.45	ug/L	113	17			33	130	20
	bis(2-Chloroethyl)ether	0.4	0.46	ug/L	115	11			55	118	20
	Naphthalene	0.4	0.43	ug/L	108	5			67	120	20
	Hexachlorobutadiene	0.4	0.43	ug/L	108	21		*	33	114	20
	2-Methylnaphthalene	0.4	0.44	ug/L	110	10			50	122	20
	Acenaphthylene	0.4	0.46	ug/L	115	9			60	119	20
	Acenaphthene	0.4	0.45	ug/L	113	12			65	119	20
	Total PAH	6.4	7.17	ug/L	112	11			65	119	20
	Fluorene	0.4	0.42	ug/L	105	13			58	122	20
	4,6-Dinitro-2-methylphenol	0.4	0.47	ug/L	117	24		*	20	150	20
	4-Bromophenyl-phenylether	0.4	0.45	ug/L	113	17			20	150	20
	Hexachlorobenzene	0.4	0.45	ug/L	113	17			62	127	20
	Atrazine	0.4	0.43	ug/L	108	15			20	150	20
	Pentachlorophenol	0.8	0.35	ug/L	44	9			10	137	20
	Phenanthrene	0.4	0.45	ug/L	113	9			65	117	20
	Anthracene	0.4	0.46	ug/L	115	11			57	118	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BN010625

Client: _____

Analytical Method: **8270-Modified**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Low	Limits	
							Qual	Qual		High	RPD
PB165947BSD	Fluoranthene	0.4	0.42	ug/L	105	15			53	126	20
	Pyrene	0.4	0.45	ug/L	113	12			54	124	20
	Benzo(a)anthracene	0.4	0.45	ug/L	113	12			54	130	20
	Chrysene	0.4	0.45	ug/L	113	9			64	126	20
	bis(2-Ethylhexyl)phthalate	0.4	0.46	ug/L	115	14			40	137	20
	Benzo(b)fluoranthene	0.4	0.44	ug/L	110	12			65	121	20
	Benzo(k)fluoranthene	0.4	0.45	ug/L	113	12			72	119	20
	Benzo(a)pyrene	0.4	0.47	ug/L	117	11			68	120	20
	Indeno(1,2,3-cd)pyrene	0.4	0.48	ug/L	120	13			70	127	20
	Dibenz(a,h)anthracene	0.4	0.46	ug/L	115	11			65	121	20
	Benzo(g,h,i)perylene	0.4	0.43	ug/L	108	12			76	117	20
	1,4-Dioxane	0.4	0.42	ug/L	105	24		*	42	127	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165947BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN010625

SAS No.: BN010625 SDG NO.: BN010625

Lab File ID: BN035890.D

Lab Sample ID: PB165947BL

Instrument ID: BNA_N

Date Extracted: 01/03/2025

Matrix: (soil/water) Water

Date Analyzed: 01/06/2025

Level: (low/med) LOW

Time Analyzed: 10:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VPB190A-HYD-20241231	Q1004-02	BN035891.D	01/06/2025
BP-VPB-190A-GW-803-805	Q1004-05	BN035892.D	01/06/2025
PB165947BS	PB165947BS	BN035893.D	01/06/2025
PB165947BSD	PB165947BSD	BN035894.D	01/06/2025

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: BN010625

Client: _____

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB165947BL	PB165947BL	BN035890.D	2-Methylnaphthalene-d10	0.4	0.40	99		20	139
			Fluoranthene-d10	0.4	0.41	101		30	150
			2-Fluorophenol	0.4	0.32	80		10	100
			Phenol-d6	0.4	0.32	79		10	100
			Nitrobenzene-d5	0.4	0.41	103		27	123
			2-Fluorobiphenyl	0.4	0.39	98		34	132
			2,4,6-Tribromophenol	0.4	0.27	68		10	131
			Terphenyl-d14	0.4	0.43	107		35	157
PB165947BS	PB165947BS	BN035893.D	2-Methylnaphthalene-d10	0.4	0.39	98		20	139
			Fluoranthene-d10	0.4	0.38	95		30	150
			2-Fluorophenol	0.4	0.33	82		10	100
			Phenol-d6	0.4	0.32	79		10	100
			Nitrobenzene-d5	0.4	0.40	101		27	123
			2-Fluorobiphenyl	0.4	0.39	98		34	132
			2,4,6-Tribromophenol	0.4	0.23	57		10	131
			Terphenyl-d14	0.4	0.42	105		35	157
PB165947BSD	PB165947BSD	BN035894.D	2-Methylnaphthalene-d10	0.4	0.45	113		20	139
			Fluoranthene-d10	0.4	0.45	112		30	150
			2-Fluorophenol	0.4	0.38	94		10	100
			Phenol-d6	0.4	0.36	90		10	100
			Nitrobenzene-d5	0.4	0.45	113		27	123
			2-Fluorobiphenyl	0.4	0.46	114		34	132
			2,4,6-Tribromophenol	0.4	0.18	45		10	131
			Terphenyl-d14	0.4	0.50	125		35	157
Q1004-02	VPB190A-HYD-20	BN035891.D	2-Methylnaphthalene-d10	0.4	0.15	37		20	139
			Fluoranthene-d10	0.4	0.26	65		30	150
			2-Fluorophenol	0.4	0.02	5	*	10	100
			Phenol-d6	0.4	0.00	1	*	10	100
			Nitrobenzene-d5	0.4	0.33	82		27	123
			2-Fluorobiphenyl	0.4	0.32	81		34	132
			2,4,6-Tribromophenol	0.4	0.14	34		10	131
			Terphenyl-d14	0.4	0.40	101		35	157
Q1004-05	BP-VPB-190A-GW	BN035892.D	2-Methylnaphthalene-d10	0.4	0.31	77		20	139
			Fluoranthene-d10	0.4	0.32	81		30	150
			2-Fluorophenol	0.4	0.06	16		10	100
			Phenol-d6	0.4	0.04	10		10	100
			Nitrobenzene-d5	0.4	0.31	76		27	123
			2-Fluorobiphenyl	0.4	0.25	63		34	132
			2,4,6-Tribromophenol	0.4	0.15	38		10	131
			Terphenyl-d14	0.4	0.40	99		35	157

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN010625

Lab Code: CHEM

SAS No.: BN010625 SDG NO.: BN010625

Lab File ID: BN035888.D

DFTPP Injection Date: 01/06/2025

Instrument ID: BNA_N

DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	41.3
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46
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	6.8
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	9.6
442	Greater than 50% of mass 198	62.9
443	15.0 - 24.0% of mass 442	11.7 (18.6) 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
SSTDCCC0.4	SSTDCCC0.4	BN035889.D	01/06/2025	10:05
PB165947BL	PB165947BL	BN035890.D	01/06/2025	10:41
VPB190A-HYD-20241231	Q1004-02	BN035891.D	01/06/2025	11:17
BP-VPB-190A-GW-803-805	Q1004-05	BN035892.D	01/06/2025	11:52
PB165947BS	PB165947BS	BN035893.D	01/06/2025	12:28
PB165947BSD	PB165947BSD	BN035894.D	01/06/2025	13:04
SSTDCCC0.4EC	SSTDCCC0.4	BN035895.D	01/06/2025	13:43