

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN091024 SAS No.: BN091024 SDG No.: BN091024

Instrument ID: BNA_N Calibration Date/Time: 9/10/2024 11:17

Lab File ID: BN033837.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	0.566	0.541		-4.417	20.0
Fluoranthene-d10	0.987	0.999		1.216	20.0
n-Nitrosodimethylamine	0.534	0.555		3.933	20.0
2-Fluorophenol	1.225	1.115		-8.98	20.0
Phenol-d6	1.450	1.327		-8.483	20.0
bis(2-Chloroethyl)ether	1.094	1.077		-1.554	20.0
Nitrobenzene-d5	0.341	0.324		-4.985	20.0
Naphthalene	1.068	1.033		-3.277	20.0
Hexachlorobutadiene	0.222	0.217		-2.252	20.0
2-Methylnaphthalene	0.655	0.629		-3.969	20.0
2-Fluorobiphenyl	1.668	1.624		-2.638	20.0
Acenaphthylene	1.729	1.610		-6.883	20.0
Acenaphthene	1.185	1.163		-1.857	20.0
Fluorene	1.462	1.433		-1.984	20.0
4,6-Dinitro-2-methylphenol	0.063	0.058		-7.937	20.0
2,4,6-Tribromophenol	0.202	0.187		-7.426	20.0
4-Bromophenyl-phenylether	0.232	0.220		-5.172	20.0
Hexachlorobenzene	0.266	0.260		-2.256	20.0
Atrazine	0.185	0.175		-5.405	20.0
Pentachlorophenol	0.109	0.108		-0.917	20.0
Phenanthrene	1.102	1.092		-0.907	20.0
Anthracene	0.958	0.924		-3.549	20.0
Fluoranthene	1.235	1.249		1.134	20.0
Pyrene	1.612	1.461		-9.367	20.0
Terphenyl-d14	0.853	0.765		-10.317	20.0
Benzo(a)anthracene	1.428	1.330		-6.863	20.0
Chrysene	1.412	1.349		-4.462	20.0
Bis(2-ethylhexyl)phthalate	0.779	0.756		-2.953	20.0
Benzo(b)fluoranthene	1.470	1.387		-5.646	20.0
Benzo(k)fluoranthene	1.433	1.454		1.465	20.0
Benzo(a)pyrene	1.229	1.189		-3.255	20.0
Indeno(1,2,3-cd)pyrene	1.653	1.664		0.665	20.0
Dibenzo(a,h)anthracene	1.325	1.330		0.377	20.0
Benzo(g,h,i)perylene	1.437	1.427		-0.696	20.0
1,4-Dioxane	0.455	0.461		1.319	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.: BN091024 SAS No.: BN091024 SDG No.: BN091024

Instrument ID: BNA_N Calibration Date/Time: 9/10/2024 1:15:05

Lab File ID: BN033843.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	0.566	0.545		-3.71	50.0
Fluoranthene-d10	0.987	0.925		-6.282	50.0
n-Nitrosodimethylamine	0.534	0.573		7.303	50.0
2-Fluorophenol	1.225	1.125		-8.163	50.0
Phenol-d6	1.450	1.315		-9.31	50.0
bis(2-Chloroethyl) ether	1.094	1.057		-3.382	50.0
Nitrobenzene-d5	0.341	0.320		-6.158	50.0
Naphthalene	1.068	1.037		-2.903	50.0
Hexachlorobutadiene	0.222	0.221		-0.45	50.0
2-Methylnaphthalene	0.655	0.632		-3.511	50.0
2-Fluorobiphenyl	1.668	1.631		-2.218	50.0
Acenaphthylene	1.729	1.599		-7.519	50.0
Acenaphthene	1.185	1.163		-1.857	50.0
Fluorene	1.462	1.438		-1.642	50.0
4,6-Dinitro-2-methylphenol	0.063	0.059		-6.349	50.0
2,4,6-Tribromophenol	0.202	0.180		-10.891	50.0
4-Bromophenyl-phenylether	0.232	0.226		-2.586	50.0
Hexachlorobenzene	0.266	0.259		-2.632	50.0
Atrazine	0.185	0.172		-7.027	50.0
Pentachlorophenol	0.109	0.088		-19.266	50.0
Phenanthrene	1.102	1.068		-3.085	50.0
Anthracene	0.958	0.893		-6.785	50.0
Fluoranthene	1.235	1.161		-5.992	50.0
Pyrene	1.612	1.652		2.481	50.0
Terphenyl-d14	0.853	0.860		0.821	50.0
Benzo(a)anthracene	1.428	1.369		-4.132	50.0
Chrysene	1.412	1.438		1.841	50.0
Bis(2-ethylhexyl)phthalate	0.779	0.739		-5.135	50.0
Benzo(b)fluoranthene	1.470	1.384		-5.85	50.0
Benzo(k)fluoranthene	1.433	1.468		2.442	50.0
Benzo(a)pyrene	1.229	1.180		-3.987	50.0
Indeno(1,2,3-cd)pyrene	1.653	1.702		2.964	50.0
Dibenzo(a,h)anthracene	1.325	1.353		2.113	50.0
Benzo(g,h,i)perylene	1.437	1.464		1.879	50.0
1,4-Dioxane	0.455	0.453		-0.44	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	9/9/2024 12:00:00 AM
Project:		Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	PB163220BL	SDG No.:	BN091024
Lab Sample ID:	PB163220BL	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
BN033838.D	1	9/9/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163220

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:	9/9/2024 12:00:00 AM
Project:		Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	PB163220BL	SDG No.:	BN091024
Lab Sample ID:	PB163220BL	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
BN033838.D	1	9/9/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163220

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.386		20-139		97	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.398		30-150		100	SPK: -0.4
367-12-4	2-Fluorophenol	0.332		10-100		83	SPK: -0.4
13127-88-3	Phenol-d6	0.316		10-100		79	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.385		27-123		96	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.405		34-132		101	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.262		10-131		65	SPK: -0.4
1718-51-0	Terphenyl-d14	0.432		35-157		108	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4897	7.502				
1146-65-2	Naphthalene-d8	12425	10.261				
15067-26-2	Acenaphthene-d10	5628	14.146				
1517-22-2	Phenanthrene-d10	11008	16.892				
1719-03-5	Chrysene-d12	8239	21.103				
1520-96-3	Perylene-d12	8982	23.259				

Report of Analysis

Client:		Date Collected:	9/6/2024 12:00:00 AM
Project:		Date Received:	9/6/2024 12:00:00 AM
Client Sample ID:	PB163188BSD	SDG No.:	BN091024
Lab Sample ID:	PB163188BSD	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
BN033839.D	1	9/6/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.43		0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.39		0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.39		0.02	0.1	0.1	ug/L
87-68-3	Hexachlorobutadiene	0.39		0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.39		0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.38		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	6.33		0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.4		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	0.39		0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.4		0.02	0.1	0.1	ug/L
87-86-5	Pentachlorophenol	0.36		0.09	0.2	0.2	ug/L
85-01-8	Phenanthrene	0.39		0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.38		0.02	0.1	0.1	ug/L
206-44-0	Fluoranthene	0.38		0.02	0.1	0.1	ug/L
129-00-0	Pyrene	0.41		0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.39		0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.4		0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.39		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	0.39		0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.41		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	0.41		0.04	0.1	0.1	ug/L
123-91-1	1,4-Dioxane	0.4		0.07	0.2	0.2	ug/L

Report of Analysis

Client:		Date Collected:	9/6/2024 12:00:00 AM
Project:		Date Received:	9/6/2024 12:00:00 AM
Client Sample ID:	PB163188BSD	SDG No.:	BN091024
Lab Sample ID:	PB163188BSD	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
BN033839.D	1	9/6/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.386		20-139		97	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.38		30-150		95	SPK: -0.4
367-12-4	2-Fluorophenol	0.374		10-100		94	SPK: -0.4
13127-88-3	Phenol-d6	0.371		10-100		93	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.378		27-123		94	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.39		34-132		97	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.374		10-131		94	SPK: -0.4
1718-51-0	Terphenyl-d14	0.404		35-157		101	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4763	7.502				
1146-65-2	Naphthalene-d8	12303	10.261				
15067-26-2	Acenaphthene-d10	5800	14.135				
1517-22-2	Phenanthrene-d10	11594	16.892				
1719-03-5	Chrysene-d12	8473	21.112				
1520-96-3	Perylene-d12	9138	23.265				

Report of Analysis

Client:		Date Collected:	9/6/2024 12:00:00 AM
Project:		Date Received:	9/6/2024 12:00:00 AM
Client Sample ID:	BR-01-190-090624DL	SDG No.:	BN091024
Lab Sample ID:	P3886-04DL	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
BN033840.D	2	9/9/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163220

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.06	U	0.06	0.41	0.41	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.06	U	0.06	0.2	0.2	ug/L
91-20-3	Naphthalene	0.05	U	0.05	0.2	0.2	ug/L
87-68-3	Hexachlorobutadiene	0.05	U	0.05	0.2	0.2	ug/L
91-57-6	2-Methylnaphthalene	0.06	U	0.06	0.2	0.2	ug/L
208-96-8	Acenaphthylene	0.04	U	0.04	0.2	0.2	ug/L
83-32-9	Acenaphthene	0.04	U	0.04	0.2	0.2	ug/L
Total PAH	Total PAH	0.93	U	0.93	0.2	3.2	ug/L
86-73-7	Fluorene	0.04	U	0.04	0.2	0.2	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.41	0.41	ug/L
101-55-3	4-Bromophenyl-phenylether	0.05	U	0.05	0.2	0.2	ug/L
118-74-1	Hexachlorobenzene	0.06	U	0.06	0.2	0.2	ug/L
1912-24-9	Atrazine	0.05	U	0.05	0.2	0.2	ug/L
87-86-5	Pentachlorophenol	0.18	U	0.18	0.41	0.41	ug/L
85-01-8	Phenanthrene	0.04	U	0.04	0.2	0.2	ug/L
120-12-7	Anthracene	0.05	U	0.05	0.2	0.2	ug/L
206-44-0	Fluoranthene	0.05	U	0.05	0.2	0.2	ug/L
129-00-0	Pyrene	0.04	U	0.04	0.2	0.2	ug/L
56-55-3	Benzo(a)anthracene	0.04	U	0.04	0.2	0.2	ug/L
218-01-9	Chrysene	0.05	U	0.05	0.2	0.2	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.29	U	0.29	0.41	0.41	ug/L
205-99-2	Benzo(b)fluoranthene	0.07	U	0.07	0.2	0.2	ug/L
207-08-9	Benzo(k)fluoranthene	0.07	U	0.07	0.2	0.2	ug/L
50-32-8	Benzo(a)pyrene	0.11	U	0.11	0.2	0.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.08	U	0.08	0.2	0.2	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.08	U	0.08	0.2	0.2	ug/L
191-24-2	Benzo(g,h,i)perylene	0.08	U	0.08	0.2	0.2	ug/L
123-91-1	1,4-Dioxane	6.3	D	0.14	0.41	0.41	ug/L

Report of Analysis

Client:		Date Collected:	9/6/2024 12:00:00 AM
Project:		Date Received:	9/6/2024 12:00:00 AM
Client Sample ID:	BR-01-190-090624DL	SDG No.:	BN091024
Lab Sample ID:	P3886-04DL	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
BN033840.D	2	9/9/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163220

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.332		20-139		83	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.426		30-150		106	SPK: -0.4
367-12-4	2-Fluorophenol	0.134		10-100		34	SPK: -0.4
13127-88-3	Phenol-d6	0.086		10-100		22	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.362		27-123		90	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.334		34-132		83	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.334		10-131		83	SPK: -0.4
1718-51-0	Terphenyl-d14	0.442		35-157		111	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4805	7.502				
1146-65-2	Naphthalene-d8	12261	10.261				
15067-26-2	Acenaphthene-d10	5794	14.135				
1517-22-2	Phenanthrene-d10	11750	16.892				
1719-03-5	Chrysene-d12	9327	21.103				
1520-96-3	Perylene-d12	10281	23.259				

Report of Analysis

Client:		Date Collected:	9/4/2024 12:00:00 AM
Project:		Date Received:	9/4/2024 12:00:00 AM
Client Sample ID:	TT189D1-HYD-20240904RE	SDG No.:	BN091024
Lab Sample ID:	P3874-02RE	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	910 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
BN033841.D	1	9/6/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.03	U	0.03	0.22	0.22	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.03	U	0.03	0.11	0.11	ug/L
91-20-3	Naphthalene	0.03	U	0.03	0.11	0.11	ug/L
87-68-3	Hexachlorobutadiene	0.03	U	0.03	0.11	0.11	ug/L
91-57-6	2-Methylnaphthalene	0.03	U	0.03	0.11	0.11	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.11	0.11	ug/L
83-32-9	Acenaphthene	0.02	U	0.02	0.11	0.11	ug/L
Total PAH	Total PAH	0.5	U	0.5	0.11	1.76	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.11	0.11	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.15	U	0.15	0.22	0.22	ug/L
101-55-3	4-Bromophenyl-phenylether	0.03	U	0.03	0.11	0.11	ug/L
118-74-1	Hexachlorobenzene	0.03	U	0.03	0.11	0.11	ug/L
1912-24-9	Atrazine	0.03	U	0.03	0.11	0.11	ug/L
87-86-5	Pentachlorophenol	0.1	U	0.1	0.22	0.22	ug/L
85-01-8	Phenanthrene	0.02	U	0.02	0.11	0.11	ug/L
120-12-7	Anthracene	0.03	U	0.03	0.11	0.11	ug/L
206-44-0	Fluoranthene	0.03	U	0.03	0.11	0.11	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.11	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.11	0.11	ug/L
218-01-9	Chrysene	0.03	U	0.03	0.11	0.11	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.15	U	0.15	0.22	0.22	ug/L
205-99-2	Benzo(b)fluoranthene	0.04	U	0.04	0.11	0.11	ug/L
207-08-9	Benzo(k)fluoranthene	0.04	U	0.04	0.11	0.11	ug/L
50-32-8	Benzo(a)pyrene	0.06	U	0.06	0.11	0.11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.04	U	0.04	0.11	0.11	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.04	U	0.04	0.11	0.11	ug/L
191-24-2	Benzo(g,h,i)perylene	0.04	U	0.04	0.11	0.11	ug/L
123-91-1	1,4-Dioxane	0.8		0.07	0.22	0.22	ug/L

Report of Analysis

Client:		Date Collected:	9/4/2024 12:00:00 AM
Project:		Date Received:	9/4/2024 12:00:00 AM
Client Sample ID:	TT189D1-HYD-20240904RE	SDG No.:	BN091024
Lab Sample ID:	P3874-02RE	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	910 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
BN033841.D	1	9/6/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.005	*	20-139		1	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.296		30-150		74	SPK: -0.4
367-12-4	2-Fluorophenol	0.048		10-100		12	SPK: -0.4
13127-88-3	Phenol-d6	0.001	*	10-100		0	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.313		27-123		78	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.324		34-132		81	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.224		10-131		56	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	5080	7.501				
1146-65-2	Naphthalene-d8	13022	10.261				
15067-26-2	Acenaphthene-d10	6071	14.135				
1517-22-2	Phenanthrene-d10	12039	16.892				
1719-03-5	Chrysene-d12	9041	21.103				
1520-96-3	Perylene-d12	8233	23.259				

Report of Analysis

Client:		Date Collected:	9/4/2024 12:00:00 AM
Project:		Date Received:	9/4/2024 12:00:00 AM
Client Sample ID:	BPOW6-8-HYD-20240904RE	SDG No.:	BN091024
Lab Sample ID:	P3874-03RE	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	960 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
BN033842.D	1	9/6/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.03	U	0.03	0.21	0.21	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.03	U	0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.04	J	0.03	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	0.48	U	0.48	0.1	1.6	ug/L
86-73-7	Fluorene	0.03	J	0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.15	U	0.15	0.21	0.21	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	0.21	0.21	ug/L
85-01-8	Phenanthrene	0.03	J	0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.03	U	0.03	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	0.15	U	0.15	0.21	0.21	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	0.04	U	0.04	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	0.21	0.21	ug/L

Report of Analysis

Client:		Date Collected:	9/4/2024 12:00:00 AM
Project:		Date Received:	9/4/2024 12:00:00 AM
Client Sample ID:	BPOW6-8-HYD-20240904RE	SDG No.:	BN091024
Lab Sample ID:	P3874-03RE	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	960 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
BN033842.D	1	9/6/2024 12:00:00 AM	9/10/2024 12:00:00 AM	PB163188

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.017	*	20-139		4	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.242		30-150		60	SPK: -0.4
367-12-4	2-Fluorophenol	0.054		10-100		14	SPK: -0.4
13127-88-3	Phenol-d6	0.001	*	10-100		0	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.365		27-123		91	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.386		34-132		97	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.201		10-131		50	SPK: -0.4
1718-51-0	Terphenyl-d14	0.431		35-157		108	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4933	7.502				
1146-65-2	Naphthalene-d8	12627	10.261				
15067-26-2	Acenaphthene-d10	5697	14.135				
1517-22-2	Phenanthrene-d10	11317	16.892				
1719-03-5	Chrysene-d12	8818	21.112				
1520-96-3	Perylene-d12	9104	23.262				



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

Hit Summary Sheet SW-846

SDG No.: BN091024

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TT189D1-HYD-20240904RE							
P3874-02RE	TT189D1-HYD-2024090 Water	1,4-Dioxane	0.800		0.07	0.22	ug/L
		Total Svoc :			0.80		
		Total Concentration:			0.80		
Client ID : BPOW6-8-HYD-20240904RE							
P3874-03RE	BPOW6-8-HYD-202409(Water	Fluorene	0.030	J	0.02	0.1	ug/L
P3874-03RE	BPOW6-8-HYD-202409(Water	Naphthalene	0.040	J	0.03	0.1	ug/L
P3874-03RE	BPOW6-8-HYD-202409(Water	Phenanthrene	0.030	J	0.02	0.1	ug/L
		Total Svoc :			0.10		
		Total Concentration:			0.10		
Client ID : BR-01-190-090624DL							
P3886-04DL	BR-01-190-090624DL Water	1,4-Dioxane	6.300	D	0.14	0.41	ug/L
		Total Svoc :			6.30		
		Total Concentration:			6.30		

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN090424SAS No.: BN090424SDG No.: BN090424

Instrument ID: _____

Calibration Date(s): 9/4/2024 1: _____Calibration Time(s): 13:30 _____

LAB FILE ID:		RRF0.1 = BN033750.D			RRF0.2 = BN033751.D		RRF0.4 = BN033752.D	
		RRF0.8 = BN033753.D			RRF1.6 = BN033754.D		RRF3.2 = BN033755.D	
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.573	0.547	0.537	0.598	0.591	0.543	0.566	4.2
Fluoranthene-d10	0.968	0.945	0.950	1.014	1.051	0.967	0.987	4.0
n-Nitrosodimethylamine	0.534	0.497	0.513	0.586	0.570	0.521	0.534	6.0
2-Fluorophenol	1.299	1.249	1.168	1.286	1.248	1.155	1.225	4.9
Phenol-d6	1.565	1.451	1.356	1.504	1.486	1.381	1.450	5.1
bis(2-Chloroethyl)ether	1.134	1.085	1.066	1.175	1.136	1.031	1.094	5.1
Nitrobenzene-d5	0.339	0.337	0.321	0.358	0.351	0.332	0.341	3.7
Naphthalene	1.077	1.043	1.023	1.134	1.108	1.032	1.068	3.8
Hexachlorobutadiene	0.222	0.222	0.216	0.237	0.230	0.213	0.222	3.8
2-Methylnaphthalene	0.655	0.633	0.621	0.694	0.686	0.636	0.655	4.2
2-Fluorobiphenyl	1.639	1.647	1.629	1.764	1.723	1.622	1.668	3.2
Acenaphthylene	1.619	1.603	1.617	1.793	1.826	1.774	1.729	6.5
Acenaphthene	1.154	1.143	1.139	1.254	1.230	1.169	1.185	3.8
Fluorene	1.433	1.393	1.390	1.531	1.538	1.443	1.462	4.3
4,6-Dinitro-2-methylphenol		0.054	0.051	0.060	0.068	0.068	0.063	15.8
2,4,6-Tribromophenol	0.203	0.194	0.186	0.201	0.210	0.200	0.202	5.3
4-Bromophenyl-phenylether	0.227	0.223	0.226	0.239	0.243	0.227	0.232	3.3
Hexachlorobenzene	0.264	0.260	0.266	0.275	0.273	0.258	0.266	2.4
Atrazine	0.179	0.175	0.179	0.190	0.198	0.182	0.185	4.6
Pentachlorophenol	0.101	0.095	0.098	0.109	0.116	0.115	0.109	10.3
Phenanthrene	1.086	1.050	1.076	1.142	1.158	1.083	1.102	3.5
Anthracene	0.918	0.888	0.919	0.974	1.012	0.973	0.958	5.3
Fluoranthene	1.185	1.150	1.175	1.279	1.337	1.236	1.235	5.5
Pyrene	1.639	1.564	1.648	1.654	1.626	1.550	1.612	2.6
Terphenyl-d14	0.868	0.824	0.869	0.884	0.862	0.819	0.853	2.9
Benzo (a) anthracene	1.440	1.344	1.416	1.480	1.483	1.390	1.428	3.5
Chrysene	1.419	1.339	1.411	1.471	1.458	1.368	1.412	3.3
Bis(2-ethylhexyl)phthalate		0.843	0.775	0.776	0.766	0.728	0.779	4.8
Benzo (b) fluoranthene	1.406	1.373	1.465	1.548	1.548	1.431	1.470	4.8
Benzo (k) fluoranthene	1.371	1.334	1.407	1.503	1.513	1.413	1.433	4.9
Benzo (a) pyrene	1.196	1.131	1.198	1.278	1.288	1.224	1.229	4.8
Indeno (1,2,3-cd) pyrene	1.551	1.568	1.627	1.760	1.748	1.640	1.653	4.9
Dibenzo (a,h) anthracene	1.241	1.229	1.312	1.413	1.407	1.321	1.325	5.5
Benzo (g,h,i) perylene	1.358	1.362	1.444	1.533	1.513	1.410	1.437	4.7
1,4-Dioxane	0.454	0.463	0.437	0.489	0.464	0.447	0.455	4.3

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.: BN091024 SAS No.: BN091024 SDG NO.: BN091024

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Sep 10 2024 12:00AM

Lab File ID: BN033752.D Time Analyzed: 11:53

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	5895	7.516	15185	10.27	6901	14.16
UPPER LIMIT	11790	8.016	30370	10.772	13802	14.657
LOWER LIMIT	2947.5	7.016	7592.5	9.772	3450.5	13.657
EPA SAMPLE NO.						
01 PB163220BL	4897	7.50	12425	10.26	5628	14.15
02 PB163188BSD	4763	7.50	12303	10.26	5800	14.14
03 BR-01-190-090624DL	4805	7.50	12261	10.26	5794	14.14
04 TT189D1-HYD-20240904RE	5080	7.50	13022	10.26	6071	14.14
05 BPOW6-8-HYD-20240904RE	4933	7.50	12627	10.26	5697	14.14

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.: BN091024 SAS No.: BN091024 SDG NO.: BN091024

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Sep 10 2024 12:00AM

Lab File ID: BN033837.D Time Analyzed: 11:53

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	5140	7.502	13251	10.26	6138	14.14
UPPER LIMIT	10280	8.002	26502	10.761	12276	14.635
LOWER LIMIT	2570	7.002	6625.5	9.761	3069	13.635
EPA SAMPLE NO.						
01 PB163220BL	4897	7.50	12425	10.26	5628	14.15
02 PB163188BSD	4763	7.50	12303	10.26	5800	14.14
03 BR-01-190-090624DL	4805	7.50	12261	10.26	5794	14.14
04 TT189D1-HYD-20240904RE	5080	7.50	13022	10.26	6071	14.14
05 BPOW6-8-HYD-20240904RE	4933	7.50	12627	10.26	5697	14.14

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.: BN091024 SAS No.: BN091024 SDG NO.: BN091024

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Sep 10 2024 12:00AM

Lab File ID: BN033752.D Time Analyzed: 11:53

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	12880	16.905	9360	21.113	9625	23.271
UPPER LIMIT	25760	17.405	18720	21.613	19250	23.771
LOWER LIMIT	6440	16.405	4680	20.613	4812.5	22.771
EPA SAMPLE NO.						
01 PB163220BL	11008	16.89	8239	21.10	8982	23.26
02 PB163188BSD	11594	16.89	8473	21.11	9138	23.27
03 BR-01-190-090624DL	11750	16.89	9327	21.10	10281	23.26
04 TT189D1-HYD-20240904RE	12039	16.89	9041	21.10	8233	23.26
05 BPOW6-8-HYD-20240904RE	11317	16.89	8818	21.11	9104	23.26

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.: BN091024 SAS No.: BN091024 SDG NO.: BN091024

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Sep 10 2024 12:00AM

Lab File ID: BN033837.D Time Analyzed: 11:53

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	12309	16.892	10987	21.103	11688	23.262
UPPER LIMIT	24618	17.392	21974	21.603	23376	23.762
LOWER LIMIT	6154.5	16.392	5493.5	20.603	5844	22.762
EPA SAMPLE NO.						
01 PB163220BL	11008	16.89	8239	21.10	8982	23.26
02 PB163188BSD	11594	16.89	8473	21.11	9138	23.27
03 BR-01-190-090624DL	11750	16.89	9327	21.10	10281	23.26
04 TT189D1-HYD-20240904RE	12039	16.89	9041	21.10	8233	23.26
05 BPOW6-8-HYD-20240904RE	11317	16.89	8818	21.11	9104	23.26

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.: BN091024

Client: _____

Analytical Method: **8270-Modified**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
PB163188BSD	n-Nitrosodimethylamine	0.4	0.43	ug/L	108	5			33	130	20
	bis(2-Chloroethyl)ether	0.4	0.39	ug/L	98	7			55	118	20
	Naphthalene	0.4	0.39	ug/L	98	5			67	120	20
	Hexachlorobutadiene	0.4	0.39	ug/L	98	5			33	114	20
	2-Methylnaphthalene	0.4	0.39	ug/L	98	5			50	122	20
	Acenaphthylene	0.4	0.38	ug/L	95	15			60	119	20
	Acenaphthene	0.4	0.4	ug/L	100	10			65	119	20
	Total PAH	6.4	6.33	ug/L	99	8			65	119	20
	Fluorene	0.4	0.4	ug/L	100	7			58	122	20
	4,6-Dinitro-2-methylphenol	0.4	0.37	ug/L	93	5			20	150	20
	4-Bromophenyl-phenylether	0.4	0.38	ug/L	95	10			20	150	20
	Hexachlorobenzene	0.4	0.39	ug/L	98	7			62	127	20
	Atrazine	0.4	0.4	ug/L	100	0			20	150	20
	Pentachlorophenol	0.8	0.36	ug/L	45	65		*	10	137	20
	Phenanthrene	0.4	0.39	ug/L	98	10			65	117	20
	Anthracene	0.4	0.38	ug/L	95	15			57	118	20
	Fluoranthene	0.4	0.38	ug/L	95	8			53	126	20
	Pyrene	0.4	0.41	ug/L	103	2			54	124	20
	Benzo(a)anthracene	0.4	0.39	ug/L	98	3			54	130	20
	Chrysene	0.4	0.4	ug/L	100	7			64	126	20
	bis(2-Ethylhexyl)phthalate	0.4	0.39	ug/L	98	5			40	137	20
	Benzo(b)fluoranthene	0.4	0.39	ug/L	98	10			65	121	20
	Benzo(k)fluoranthene	0.4	0.4	ug/L	100	12			72	119	20
	Benzo(a)pyrene	0.4	0.39	ug/L	98	16			68	120	20
	Indeno(1,2,3-cd)pyrene	0.4	0.41	ug/L	103	7			70	127	20
	Dibenz(a,h)anthracene	0.4	0.41	ug/L	103	5			65	121	20
	Benzo(g,h,i)perylene	0.4	0.41	ug/L	103	2			76	117	20
	1,4-Dioxane	0.4	0.4	ug/L	100	13			42	127	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163188BSD

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN091024

SAS No.: BN091024 SDG NO.: BN091024

Lab File ID: BN033839.D

Lab Sample ID: PB163188BSD

Instrument ID: BNA_N

Date Extracted: 09/06/2024

Matrix: (soil/water) Water

Date Analyzed: 09/10/2024

Level: (low/med) LOW

Time Analyzed: 12:29

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB163188BSD	PB163188BSD	BN033839.D	09/10/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163220BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN091024

SAS No.: BN091024 SDG NO.: BN091024

Lab File ID: BN033838.D

Lab Sample ID: PB163220BL

Instrument ID: BNA_N

Date Extracted: 09/09/2024

Matrix: (soil/water) Water

Date Analyzed: 09/10/2024

Level: (low/med) LOW

Time Analyzed: 11:53

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.: BN091024

Client: _____

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3874-02RE	TT189D1-HYD-20BN033841.D		2-Methylnaphthalene-d10	0.4	0.01	1	*	20	139
			Fluoranthene-d10	0.4	0.30	74		30	150
			2-Fluorophenol	0.4	0.05	12		10	100
			Phenol-d6	0.4	0.00	0	*	10	100
			Nitrobenzene-d5	0.4	0.31	78		27	123
			2-Fluorobiphenyl	0.4	0.32	81		34	132
			2,4,6-Tribromophenol	0.4	0.22	56		10	131
			Terphenyl-d14	0.4	0.43	107		35	157
P3874-03RE	BPOW6-8-HYD-20BN033842.D		2-Methylnaphthalene-d10	0.4	0.02	4	*	20	139
			Fluoranthene-d10	0.4	0.24	60		30	150
			2-Fluorophenol	0.4	0.05	14		10	100
			Phenol-d6	0.4	0.00	0	*	10	100
			Nitrobenzene-d5	0.4	0.37	91		27	123
			2-Fluorobiphenyl	0.4	0.39	97		34	132
			2,4,6-Tribromophenol	0.4	0.20	50		10	131
			Terphenyl-d14	0.4	0.43	108		35	157
PB163188BSD	PB163188BSD	BN033839.D	2-Methylnaphthalene-d10	0.4	0.39	97		20	139
			Fluoranthene-d10	0.4	0.38	95		30	150
			2-Fluorophenol	0.4	0.37	94		10	100
			Phenol-d6	0.4	0.37	93		10	100
			Nitrobenzene-d5	0.4	0.38	94		27	123
			2-Fluorobiphenyl	0.4	0.39	97		34	132
			2,4,6-Tribromophenol	0.4	0.37	94		10	131
			Terphenyl-d14	0.4	0.40	101		35	157

Surrogate Summary

SW-846

SDG No.: BN091024

Client: _____

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3886-04DL	BR-01-190-090624\BN033840.D		2-Methylnaphthalene-d10	0.4	0.33	83		20	139
			Fluoranthene-d10	0.4	0.43	106		30	150
			2-Fluorophenol	0.4	0.13	34		10	100
			Phenol-d6	0.4	0.09	22		10	100
			Nitrobenzene-d5	0.4	0.36	90		27	123
			2-Fluorobiphenyl	0.4	0.33	83		34	132
			2,4,6-Tribromophenol	0.4	0.33	83		10	131
			Terphenyl-d14	0.4	0.44	111		35	157
PB163220BL	PB163220BL	BN033838.D	2-Methylnaphthalene-d10	0.4	0.39	97		20	139
			Fluoranthene-d10	0.4	0.40	100		30	150
			2-Fluorophenol	0.4	0.33	83		10	100
			Phenol-d6	0.4	0.32	79		10	100
			Nitrobenzene-d5	0.4	0.39	96		27	123
			2-Fluorobiphenyl	0.4	0.41	101		34	132
			2,4,6-Tribromophenol	0.4	0.26	65		10	131
			Terphenyl-d14	0.4	0.43	108		35	157

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN091024

Lab Code: CHEM

SAS No.: BN091024

SDG NO.: BN091024

Lab File ID: BN033836.D

DFTPP Injection Date: 09/10/2024

Instrument ID: BNA_N

DFTPP Injection Time: 10:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.1
68	Less than 2.0% of mass 69	0.7 (1.6) 1
69	Mass 69 relative abundance	42.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	50.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11
442	Greater than 50% of mass 198	72.5
443	15.0 - 24.0% of mass 442	13.5 (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	BN033837.D	09/10/2024	11:17
PB163220BL	PB163220BL	BN033838.D	09/10/2024	11:53
PB163188BSD	PB163188BSD	BN033839.D	09/10/2024	12:29
BR-01-190-090624DL	P3886-04DL	BN033840.D	09/10/2024	13:05
TT189D1-HYD-20240904RE	P3874-02RE	BN033841.D	09/10/2024	13:42
BPOW6-8-HYD-20240904RE	P3874-03RE	BN033842.D	09/10/2024	14:18
SSTDCCC0.4EC	SSTDCCC0.4	BN033843.D	09/10/2024	15:05