

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN072024 SAS No.: BN072024 SDG No.: BN072024

Instrument ID: BNA_N Calibration Date/Time: 7/20/2024 1:14:10

Lab File ID: BN032875.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	0.612	0.557		-8.987	20.0
Fluoranthene-d10	1.035	1.033		-0.193	20.0
n-Nitrosodimethylamine	0.419	0.421		0.477	20.0
2-Fluorophenol	1.012	1.128		11.462	20.0
Phenol-d6	1.256	1.402		11.624	20.0
bis(2-Chloroethyl) ether	1.050	1.154		9.905	20.0
Nitrobenzene-d5	0.301	0.309		2.658	20.0
Naphthalene	1.108	1.073		-3.159	20.0
Hexachlorobutadiene	0.212	0.224		5.66	20.0
2-Methylnaphthalene	0.724	0.638		-11.878	20.0
2-Fluorobiphenyl	1.489	1.506		1.142	20.0
Acenaphthylene	1.627	1.638		0.676	20.0
Acenaphthene	1.153	1.086		-5.811	20.0
Fluorene	1.541	1.299		-15.704	20.0
4,6-Dinitro-2-methylphenol	0.056	0.001		-98.214	20.0
2,4,6-Tribromophenol	0.171	0.145		-15.205	20.0
4-Bromophenyl-phenylether	0.235	0.238		1.277	20.0
Hexachlorobenzene	0.263	0.273		3.802	20.0
Atrazine	0.173	0.189		9.249	20.0
Pentachlorophenol	0.098	0.091		-7.143	20.0
Phenanthrene	1.093	1.012		-7.411	20.0
Anthracene	0.900	0.846		-6.0	20.0
Fluoranthene	1.323	1.285		-2.872	20.0
Pyrene	1.634	1.404		-14.076	20.0
Terphenyl-d14	0.820	0.748		-8.78	20.0
Benzo(a)anthracene	1.265	1.239		-2.055	20.0
Chrysene	1.504	1.444		-3.989	20.0
Bis(2-ethylhexyl)phthalate	0.700	1.058		51.143	20.0
Benzo(b)fluoranthene	1.393	1.220		-12.419	20.0
Benzo(k)fluoranthene	1.592	1.351		-15.138	20.0
Benzo(a)pyrene	1.256	1.157		-7.882	20.0
Indeno(1,2,3-cd)pyrene	1.577	1.549		-1.776	20.0
Dibenzo(a,h)anthracene	1.245	1.233		-0.964	20.0
Benzo(g,h,i)perylene	1.379	1.304		-5.439	20.0
1,4-Dioxane	0.496	0.486		-2.016	20.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	7/18/2024 12:00:00 AM
Project:		Date Received:	7/18/2024 12:00:00 AM
Client Sample ID:	PB162139BL	SDG No.:	BN072024
Lab Sample ID:	PB162139BL	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
BN032876.D	1	7/18/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162139

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:	7/18/2024 12:00:00 AM
Project:		Date Received:	7/18/2024 12:00:00 AM
Client Sample ID:	PB162139BL	SDG No.:	BN072024
Lab Sample ID:	PB162139BL	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
BN032876.D	1	7/18/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.349		30-150		87	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.388		30-150		97	SPK: -0.4
367-12-4	2-Fluorophenol	0.479	*	10-92		120	SPK: -0.4
13127-88-3	Phenol-d6	0.444	*	10-100		111	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.432		11-175		108	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.351		10-175		88	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.15		24-148		38	SPK: -0.4
1718-51-0	Terphenyl-d14	0.376		54-171		94	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2751	7.545				
1146-65-2	Naphthalene-d8	9067	10.346				
15067-26-2	Acenaphthene-d10	5319	14.199				
1517-22-2	Phenanthrene-d10	8023	16.967				
1719-03-5	Chrysene-d12	8236	21.175				
1520-96-3	Perylene-d12	10172	23.361				

Report of Analysis

Client:		Date Collected:	7/18/2024 12:00:00 AM
Project:		Date Received:	7/18/2024 12:00:00 AM
Client Sample ID:	PB162139BS	SDG No.:	BN072024
Lab Sample ID:	PB162139BS	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
BN032877.D	1	7/18/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.39		0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.43		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	0.41		0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.37		0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.4		0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.38		0.02	0.1	0.1	ug/L
Total PAH	Total PAH	6.01		0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.33		0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.3		0.14	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.42		0.03	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.43		0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.45		0.02	0.1	0.1	ug/L
87-86-5	Pentachlorophenol	0.33		0.09	0.2	0.2	ug/L
85-01-8	Phenanthrene	0.37		0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.37		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	0.36		0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.41		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	0.62		0.14	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.36		0.03	0.1	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.34		0.03	0.1	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.37		0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.39		0.04	0.1	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.4		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	0.35		0.07	0.2	0.2	ug/L

Report of Analysis

Client:		Date Collected:	7/18/2024 12:00:00 AM
Project:		Date Received:	7/18/2024 12:00:00 AM
Client Sample ID:	PB162139BS	SDG No.:	BN072024
Lab Sample ID:	PB162139BS	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
BN032877.D	1	7/18/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.387		30-150		97	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.368		30-150		92	SPK: -0.4
367-12-4	2-Fluorophenol	0.435	*	10-92		109	SPK: -0.4
13127-88-3	Phenol-d6	0.461	*	10-100		115	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.407		11-175		102	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.413		10-175		103	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.307		24-148		77	SPK: -0.4
1718-51-0	Terphenyl-d14	0.388		54-171		97	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4569	7.53				
1146-65-2	Naphthalene-d8	15725	10.304				
15067-26-2	Acenaphthene-d10	8472	14.178				
1517-22-2	Phenanthrene-d10	13032	16.954				
1719-03-5	Chrysene-d12	10747	21.166				
1520-96-3	Perylene-d12	12947	23.358				

Report of Analysis

Client:		Date Collected:	7/18/2024 12:00:00 AM
Project:		Date Received:	7/18/2024 12:00:00 AM
Client Sample ID:	PB162139BSD	SDG No.:	BN072024
Lab Sample ID:	PB162139BSD	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
BN032878.D	1	7/18/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.36		0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.44		0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.38		0.02	0.1	0.1	ug/L
87-68-3	Hexachlorobutadiene	0.41		0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.36		0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.41		0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.37		0.02	0.1	0.1	ug/L
Total PAH	Total PAH	5.98		0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.33		0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.3		0.14	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.42		0.03	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.41		0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.44		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	0.37		0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.37		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	0.36		0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.41		0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.39		0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.62		0.14	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.35		0.03	0.1	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.34		0.03	0.1	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.37		0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.39		0.04	0.1	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.4		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:	7/18/2024 12:00:00 AM
Project:		Date Received:	7/18/2024 12:00:00 AM
Client Sample ID:	PB162139BSD	SDG No.:	BN072024
Lab Sample ID:	PB162139BSD	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
BN032878.D	1	7/18/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.378		30-150		94	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.375		30-150		94	SPK: -0.4
367-12-4	2-Fluorophenol	0.411	*	10-92		103	SPK: -0.4
13127-88-3	Phenol-d6	0.445	*	10-100		111	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.401		11-175		100	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.427		10-175		107	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.324		24-148		81	SPK: -0.4
1718-51-0	Terphenyl-d14	0.377		54-171		94	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4999	7.53				
1146-65-2	Naphthalene-d8	15991	10.304				
15067-26-2	Acenaphthene-d10	8061	14.178				
1517-22-2	Phenanthrene-d10	13204	16.954				
1719-03-5	Chrysene-d12	11265	21.157				
1520-96-3	Perylene-d12	13591	23.355				

Report of Analysis

Client:		Date Collected:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	IDW-T1-01	SDG No.:	BN072024
Lab Sample ID:	P3282-04	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	990 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
BN032879.D	1	7/18/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162139

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	0.09	J	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	0.15		0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.03	J	0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.09	J	0.02	0.1	0.1	ug/L
Total PAH	Total PAH	1.12	J	0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.13		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	0.41		0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.08	J	0.02	0.1	0.1	ug/L
206-44-0	Fluoranthene	0.1		0.02	0.1	0.1	ug/L
129-00-0	Pyrene	0.09	J	0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.05	J	0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.05	J	0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.77		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:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	IDW-T1-01	SDG No.:	BN072024
Lab Sample ID:	P3282-04	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	990 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
BN032879.D	1	7/18/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.307		30-150		77	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.385		30-150		96	SPK: -0.4
367-12-4	2-Fluorophenol	0.218		10-92		54	SPK: -0.4
13127-88-3	Phenol-d6	0.134		10-100		34	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.278		11-175		69	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.338		10-175		84	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.363		24-148		91	SPK: -0.4
1718-51-0	Terphenyl-d14	0.426		54-171		106	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3406	7.53				
1146-65-2	Naphthalene-d8	10478	10.304				
15067-26-2	Acenaphthene-d10	5828	14.178				
1517-22-2	Phenanthrene-d10	10307	16.942				
1719-03-5	Chrysene-d12	9821	21.157				
1520-96-3	Perylene-d12	10918	23.352				

Report of Analysis

Client:		Date Collected:	7/19/2024 12:00:00 AM
Project:		Date Received:	7/19/2024 12:00:00 AM
Client Sample ID:	PB162161BL	SDG No.:	BN072024
Lab Sample ID:	PB162161BL	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
BN032880.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

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:	7/19/2024 12:00:00 AM
Project:		Date Received:	7/19/2024 12:00:00 AM
Client Sample ID:	PB162161BL	SDG No.:	BN072024
Lab Sample ID:	PB162161BL	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
BN032880.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.291		30-150		73	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.355		30-150		89	SPK: -0.4
367-12-4	2-Fluorophenol	0.394	*	10-92		98	SPK: -0.4
13127-88-3	Phenol-d6	0.336		10-100		84	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.334		11-175		83	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.305		10-175		76	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.201		24-148		50	SPK: -0.4
1718-51-0	Terphenyl-d14	0.351		54-171		88	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2752	7.538				
1146-65-2	Naphthalene-d8	8423	10.325				
15067-26-2	Acenaphthene-d10	5008	14.189				
1517-22-2	Phenanthrene-d10	8449	16.954				
1719-03-5	Chrysene-d12	8921	21.166				
1520-96-3	Perylene-d12	10758	23.361				

Report of Analysis

Client:		Date Collected:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	SP-100-20240717	SDG No.:	BN072024
Lab Sample ID:	P3299-01	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
BN032881.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

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	J	0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.03	J	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	4.9		0.07	0.2	0.2	ug/L

Report of Analysis

Client:		Date Collected:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	SP-100-20240717	SDG No.:	BN072024
Lab Sample ID:	P3299-01	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
BN032881.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.299		30-150		75	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.381		30-150		95	SPK: -0.4
367-12-4	2-Fluorophenol	0.148		10-92		37	SPK: -0.4
13127-88-3	Phenol-d6	0.105		10-100		26	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.33		11-175		83	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.299		10-175		75	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.266		24-148		67	SPK: -0.4
1718-51-0	Terphenyl-d14	0.429		54-171		107	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2793	7.538				
1146-65-2	Naphthalene-d8	9084	10.325				
15067-26-2	Acenaphthene-d10	5584	14.189				
1517-22-2	Phenanthrene-d10	9129	16.954				
1719-03-5	Chrysene-d12	8890	21.166				
1520-96-3	Perylene-d12	10149	23.358				

Report of Analysis

Client:		Date Collected:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	SP-201-20240717	SDG No.:	BN072024
Lab Sample ID:	P3299-02	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
BN032882.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

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	J	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:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	SP-201-20240717	SDG No.:	BN072024
Lab Sample ID:	P3299-02	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
BN032882.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.255		30-150		64	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.331		30-150		83	SPK: -0.4
367-12-4	2-Fluorophenol	0.183		10-92		46	SPK: -0.4
13127-88-3	Phenol-d6	0.091		10-100		23	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.28		11-175		70	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.239		10-175		60	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.223		24-148		56	SPK: -0.4
1718-51-0	Terphenyl-d14	0.379		54-171		95	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2928	7.538				
1146-65-2	Naphthalene-d8	8488	10.336				
15067-26-2	Acenaphthene-d10	5564	14.189				
1517-22-2	Phenanthrene-d10	10392	16.954				
1719-03-5	Chrysene-d12	10088	21.166				
1520-96-3	Perylene-d12	11205	23.361				

Report of Analysis

Client:		Date Collected:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	SP-303-20240717	SDG No.:	BN072024
Lab Sample ID:	P3299-03	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	990 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
BN032883.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

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
Total PAH	Total PAH	0.45	U	0.45	0.1	1.6	ug/L
83-32-9	Acenaphthene	0.02	U	0.02	0.1	0.1	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	J	0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.03	J	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:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	SP-303-20240717	SDG No.:	BN072024
Lab Sample ID:	P3299-03	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	990 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
BN032883.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.291		30-150		73	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.358		30-150		90	SPK: -0.4
367-12-4	2-Fluorophenol	0.231		10-92		58	SPK: -0.4
13127-88-3	Phenol-d6	0.115		10-100		29	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.341		11-175		85	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.291		10-175		73	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.264		24-148		66	SPK: -0.4
1718-51-0	Terphenyl-d14	0.399		54-171		100	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2633	7.538				
1146-65-2	Naphthalene-d8	8318	10.346				
15067-26-2	Acenaphthene-d10	5175	14.199				
1517-22-2	Phenanthrene-d10	8883	16.967				
1719-03-5	Chrysene-d12	8609	21.166				
1520-96-3	Perylene-d12	9663	23.361				

Report of Analysis

Client:		Date Collected:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	VPB189-HYD-20240717	SDG No.:	BN072024
Lab Sample ID:	P3307-02	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	880 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
BN032884.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.09	J	0.03	0.23	0.23	ug/L
111-44-4	bis(2-Chloroethyl)ether	10	E	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	0.03	J	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	0.52	U	0.52	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	0.16	U	0.16	0.23	0.23	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	0.23	0.23	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	0.04	J	0.03	0.11	0.11	ug/L
129-00-0	Pyrene	0.03	U	0.03	0.11	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.04	J	0.03	0.11	0.11	ug/L
218-01-9	Chrysene	0.07	J	0.03	0.11	0.11	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.16	U	0.16	0.23	0.23	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	1.1		0.08	0.23	0.23	ug/L

Report of Analysis

Client:		Date Collected:	7/17/2024 12:00:00 AM
Project:		Date Received:	7/17/2024 12:00:00 AM
Client Sample ID:	VPB189-HYD-20240717	SDG No.:	BN072024
Lab Sample ID:	P3307-02	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	880 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
BN032884.D	1	7/19/2024 12:00:00 AM	7/20/2024 12:00:00 AM	PB162161

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.002	*	30-150		1	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.232		30-150		58	SPK: -0.4
367-12-4	2-Fluorophenol	0.019	*	10-92		5	SPK: -0.4
13127-88-3	Phenol-d6	0.002	*	10-100		1	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.004	*	11-175		1	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.293		10-175		73	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.026	*	24-148		6	SPK: -0.4
1718-51-0	Terphenyl-d14	0.41		54-171		102	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	476		7.538			
1146-65-2	Naphthalene-d8	1384		10.336			
15067-26-2	Acenaphthene-d10	901		14.199			
1517-22-2	Phenanthrene-d10	1564		16.967			
1719-03-5	Chrysene-d12	1326		21.175			
1520-96-3	Perylene-d12	1200		23.364			



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

Hit Summary Sheet SW-846

SDG No.: BN072024

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : IDW-T1-01								
P3282-04	IDW-T1-01	Water	2-Methylnaphthalene	0.150		0.03	0.1	ug/L
P3282-04	IDW-T1-01	Water	Acenaphthene	0.090	J	0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Acenaphthylene	0.030	J	0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Anthracene	0.080	J	0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Benzo(a)anthracene	0.050	J	0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Bis(2-ethylhexyl)phthalate	0.770		0.14	0.2	ug/L
P3282-04	IDW-T1-01	Water	Chrysene	0.050	J	0.03	0.1	ug/L
P3282-04	IDW-T1-01	Water	Fluoranthene	0.100		0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Fluorene	0.130		0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Naphthalene	0.090	J	0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Phenanthrene	0.410		0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Pyrene	0.090	J	0.02	0.1	ug/L
P3282-04	IDW-T1-01	Water	Total PAH	1.120	J	0.45	1.6	ug/L
Total Svoc :				3.16				
Total Concentration:				3.16				
Client ID : SP-100-20240717								
P3299-01	SP-100-20240717	Water	1,4-Dioxane	4.900		0.07	0.2	ug/L
P3299-01	SP-100-20240717	Water	Benzo(a)anthracene	0.020	J	0.02	0.1	ug/L
P3299-01	SP-100-20240717	Water	Chrysene	0.030	J	0.03	0.1	ug/L
Total Svoc :				4.95				
Total Concentration:				4.95				
Client ID : SP-201-20240717								
P3299-02	SP-201-20240717	Water	Chrysene	0.030	J	0.03	0.1	ug/L
Total Svoc :				0.03				
Total Concentration:				0.03				
Client ID : SP-303-20240717								
P3299-03	SP-303-20240717	Water	Benzo(a)anthracene	0.020	J	0.02	0.1	ug/L
P3299-03	SP-303-20240717	Water	Chrysene	0.030	J	0.03	0.1	ug/L
Total Svoc :				0.05				
Total Concentration:				0.05				
Client ID : VPB189-HYD-20240717								
P3307-02	VPB189-HYD-20240717	Water	1,4-Dioxane	1.100		0.08	0.23	ug/L
P3307-02	VPB189-HYD-20240717	Water	Acenaphthylene	0.030	J	0.02	0.11	ug/L
P3307-02	VPB189-HYD-20240717	Water	Benzo(a)anthracene	0.040	J	0.03	0.11	ug/L
P3307-02	VPB189-HYD-20240717	Water	bis(2-Chloroethyl)ether	10.000	E	0.03	0.11	ug/L
P3307-02	VPB189-HYD-20240717	Water	Chrysene	0.070	J	0.03	0.11	ug/L



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Hit Summary Sheet
SW-846

SDG No.: BN072024

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
P3307-02	VPB189-HYD-20240717 Water	Fluoranthene	0.040	J	0.03	0.11	ug/L
P3307-02	VPB189-HYD-20240717 Water	n-Nitrosodimethylamine	0.090	J	0.03	0.23	ug/L
Total Svoc :			11.37				
Total Concentration:			11.37				

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN071124 SAS No.: BN071124 SDG No.: BN071124

Instrument ID: _____ Calibration Date(s): 7/10/2024 : _____

Calibration Time(s): 15:54 _____

LAB FILE ID:		RRF0.1 = BN032616.D			RRF0.2 = BN032617.D		RRF0.4 = BN032618.D	
		RRF0.8 = BN032619.D			RRF1.6 = BN032620.D		RRF3.2 = BN032621.D	
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.594	0.576	0.597	0.657	0.650	0.596	0.612	5.0
Fluoranthene-d10	1.009	0.987	0.986	1.101	1.097	1.018	1.035	4.7
n-Nitrosodimethylamine	0.451	0.408	0.421	0.441	0.428	0.400	0.419	5.7
2-Fluorophenol	1.089	0.979	1.038	1.043	1.009	0.974	1.012	4.8
Phenol-d6	1.214	1.102	1.258	1.297	1.331	1.282	1.256	6.2
bis(2-Chloroethyl)ether	0.977	0.841	1.059	1.258	1.054	1.062	1.050	12.0
Nitrobenzene-d5	0.268	0.271	0.291	0.331	0.328	0.310	0.301	8.5
Naphthalene	1.116	1.074	1.103	1.173	1.147	1.071	1.108	3.7
Hexachlorobutadiene	0.228	0.216	0.214	0.222	0.212	0.197	0.212	5.9
2-Methylnaphthalene	0.677	0.665	0.697	0.784	0.785	0.720	0.724	6.6
2-Fluorobiphenyl	1.471	1.388	1.485	1.608	1.547	1.475	1.489	4.7
Acenaphthylene	1.493	1.457	1.495	1.715	1.765	1.718	1.627	8.5
Acenaphthene	1.117	1.088	1.142	1.251	1.212	1.134	1.153	5.0
Fluorene	1.504	1.473	1.523	1.674	1.635	1.470	1.541	5.2
4,6-Dinitro-2-methylphenol		0.028	0.034	0.053	0.065	0.071	0.056	39.5
2,4,6-Tribromophenol	0.168	0.150	0.153	0.174	0.183	0.173	0.171	9.4
4-Bromophenyl-phenylether	0.235	0.219	0.231	0.245	0.244	0.237	0.235	3.8
Hexachlorobenzene	0.270	0.254	0.258	0.277	0.272	0.262	0.263	3.9
Atrazine	0.164	0.156	0.155	0.182	0.188	0.177	0.173	8.6
Pentachlorophenol	0.113	0.080	0.081	0.093	0.100	0.103	0.098	14.1
Phenanthrene	1.036	0.986	1.058	1.197	1.172	1.108	1.093	6.8
Anthracene	0.760	0.742	0.789	0.963	1.024	1.001	0.900	14.4
Fluoranthene	1.263	1.235	1.250	1.418	1.430	1.316	1.323	6.0
Pyrene	1.719	1.569	1.692	1.772	1.676	1.506	1.634	6.6
Terphenyl-d14	0.861	0.794	0.846	0.886	0.841	0.744	0.820	6.4
Benzo (a) anthracene	1.224	1.077	1.198	1.352	1.336	1.313	1.265	8.2
Chrysene	1.490	1.507	1.549	1.597	1.576	1.397	1.504	5.2
Bis(2-ethylhexyl)phthalate	0.701	0.684	0.604	0.695	0.711	0.703	0.700	8.3
Benzo (b) fluoranthene	1.190	1.195	1.313	1.544	1.566	1.434	1.393	11.5
Benzo (k) fluoranthene	1.502	1.528	1.587	1.770	1.684	1.561	1.592	6.3
Benzo (a) pyrene	1.200	1.142	1.203	1.362	1.344	1.272	1.256	6.4
Indeno (1,2,3-cd) pyrene	1.547	1.410	1.534	1.674	1.629	1.704	1.577	6.4
Dibenzo (a,h) anthracene	1.180	1.116	1.215	1.323	1.294	1.362	1.245	6.9
Benzo (g,h,i) perylene	1.374	1.288	1.378	1.459	1.394	1.470	1.379	5.2
1,4-Dioxane	0.613	0.525	0.495	0.515	0.476	0.434	0.496	13.4

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.: BN072024 SAS No.: BN072024 SDG NO.: BN072024

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jul 20 2024 12:00AM

Lab File ID: BN032618.D Time Analyzed: 14:46

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	4288	7.567	13064	10.36	8572	14.21
UPPER LIMIT	8576	8.067	26128	10.857	17144	14.71
LOWER LIMIT	2144	7.067	6532	9.857	4286	13.71
EPA SAMPLE NO.						
01 PB162139BL	2751	7.55	9067	10.35	5319	14.20
02 PB162139BS	4569	7.53	15725	10.30	8472	14.18
03 PB162139BSD	4999	7.53	15991	10.30	8061	14.18
04 IDW-T1-01	3406	7.53	10478	10.30	5828	14.18
05 PB162161BL	2752	7.54	8423	10.33	5008	14.19
06 SP-100-20240717	2793	7.54	9084	10.33	5584	14.19
07 SP-201-20240717	2928	7.54	8488	10.34	5564	14.19
08 SP-303-20240717	2633	7.54	8318	10.35	5175	14.20
09 VPB189-HYD-20240717	476 *	7.54	1384 *	10.34	901 *	14.20

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN072024 SAS No.: BN072024 SDG NO.: BN072024

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Jul 20 2024 12:00AM

Lab File ID: BN032875.D Time Analyzed: 14:46

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	3657	7.531	11775	10.30	6208	14.18
UPPER LIMIT	7314	8.031	23550	10.804	12416	14.678
LOWER LIMIT	1828.5	7.031	5887.5	9.804	3104	13.678
EPA SAMPLE NO.						
01 PB162139BL	2751	7.55	9067	10.35	5319	14.20
02 PB162139BS	4569	7.53	15725	10.30	8472	14.18
03 PB162139BSD	4999	7.53	15991	10.30	8061	14.18
04 IDW-T1-01	3406	7.53	10478	10.30	5828	14.18
05 PB162161BL	2752	7.54	8423	10.33	5008	14.19
06 SP-100-20240717	2793	7.54	9084	10.33	5584	14.19
07 SP-201-20240717	2928	7.54	8488	10.34	5564	14.19
08 SP-303-20240717	2633	7.54	8318	10.35	5175	14.20
09 VPB189-HYD-20240717	476 *	7.54	1384 *	10.34	901 *	14.20

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN072024 SAS No.: BN072024 SDG NO.: BN072024

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jul 20 2024 12:00AM

Lab File ID: BN032618.D Time Analyzed: 14:46

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	18433	16.979	13897	21.193	13224	23.402
UPPER LIMIT	36866	17.479	27794	21.693	26448	23.902
LOWER LIMIT	9216.5	16.479	6948.5	20.693	6612	22.902
EPA SAMPLE NO.						
01 PB162139BL	8023 *	16.97	8236	21.18	10172	23.36
02 PB162139BS	13032	16.95	10747	21.17	12947	23.36
03 PB162139BSD	13204	16.95	11265	21.16	13591	23.36
04 IDW-T1-01	10307	16.94	9821	21.16	10918	23.35
05 PB162161BL	8449 *	16.95	8921	21.17	10758	23.36
06 SP-100-20240717	9129 *	16.95	8890	21.17	10149	23.36
07 SP-201-20240717	10392	16.95	10088	21.17	11205	23.36
08 SP-303-20240717	8883 *	16.97	8609	21.17	9663	23.36
09 VPB189-HYD-20240717	1564 *	16.97	1326 *	21.18	1200 *	23.36

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.: BN072024 SAS No.: BN072024 SDG NO.: BN072024

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Jul 20 2024 12:00AM

Lab File ID: BN032875.D Time Analyzed: 14:46

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	10388	16.954	9912	21.166	11334	23.358
UPPER LIMIT	20776	17.454	19824	21.666	22668	23.858
LOWER LIMIT	5194	16.454	4956	20.666	5667	22.858
EPA SAMPLE NO.						
01 PB162139BL	8023	16.97	8236	21.18	10172	23.36
02 PB162139BS	13032	16.95	10747	21.17	12947	23.36
03 PB162139BSD	13204	16.95	11265	21.16	13591	23.36
04 IDW-T1-01	10307	16.94	9821	21.16	10918	23.35
05 PB162161BL	8449	16.95	8921	21.17	10758	23.36
06 SP-100-20240717	9129	16.95	8890	21.17	10149	23.36
07 SP-201-20240717	10392	16.95	10088	21.17	11205	23.36
08 SP-303-20240717	8883	16.97	8609	21.17	9663	23.36
09 VPB189-HYD-20240717	1564 *	16.97	1326 *	21.18	1200 *	23.36

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.: BN072024

Client: _____

Analytical Method: **8270-Modified**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB162139BS	n-Nitrosodimethylamine	0.4	0.39	ug/L	98				33	130		
	bis(2-Chloroethyl)ether	0.4	0.43	ug/L	108				55	118		
	Naphthalene	0.4	0.39	ug/L	98				67	120		
	Hexachlorobutadiene	0.4	0.41	ug/L	103				33	114		
	2-Methylnaphthalene	0.4	0.37	ug/L	93				50	122		
	Acenaphthylene	0.4	0.4	ug/L	100				60	119		
	Acenaphthene	0.4	0.38	ug/L	95				65	119		
	Total PAH	6.4	6.01	ug/L	94				65	119		
	Fluorene	0.4	0.33	ug/L	83				58	122		
	4,6-Dinitro-2-methylphenol	0.4	0.3	ug/L	75				20	150		
	4-Bromophenyl-phenylether	0.4	0.42	ug/L	105				20	150		
	Hexachlorobenzene	0.4	0.43	ug/L	108				62	127		
	Atrazine	0.4	0.45	ug/L	113				20	150		
	Pentachlorophenol	0.8	0.33	ug/L	41				10	137		
	Phenanthrene	0.4	0.37	ug/L	93				65	117		
	Anthracene	0.4	0.37	ug/L	93				57	118		
	Fluoranthene	0.4	0.36	ug/L	90				53	126		
	Pyrene	0.4	0.36	ug/L	90				54	124		
	Benzo(a)anthracene	0.4	0.41	ug/L	103				54	130		
	Chrysene	0.4	0.4	ug/L	100				64	126		
	bis(2-Ethylhexyl)phthalate	0.4	0.62	ug/L	155		*		40	137		
	Benzo(b)fluoranthene	0.4	0.36	ug/L	90				65	121		
	Benzo(k)fluoranthene	0.4	0.34	ug/L	85				72	119		
	Benzo(a)pyrene	0.4	0.37	ug/L	93				68	120		
	Indeno(1,2,3-cd)pyrene	0.4	0.39	ug/L	98				70	127		
	Dibenz(a,h)anthracene	0.4	0.4	ug/L	100				65	121		
	Benzo(g,h,i)perylene	0.4	0.38	ug/L	95				76	117		
	1,4-Dioxane	0.4	0.35	ug/L	88				60	132		
PB162139BSD	n-Nitrosodimethylamine	0.4	0.36	ug/L	90				33	130	20	
	bis(2-Chloroethyl)ether	0.4	0.44	ug/L	110				55	118	20	
	Naphthalene	0.4	0.38	ug/L	95				67	120	20	
	Hexachlorobutadiene	0.4	0.41	ug/L	103				33	114	20	
	2-Methylnaphthalene	0.4	0.36	ug/L	90				50	122	20	
	Acenaphthylene	0.4	0.41	ug/L	103				60	119	20	
	Acenaphthene	0.4	0.37	ug/L	93				65	119	20	
	Total PAH	6.4	5.98	ug/L	93				65	119	20	
	Fluorene	0.4	0.33	ug/L	83				58	122	20	
	4,6-Dinitro-2-methylphenol	0.4	0.3	ug/L	75				20	150	20	
	4-Bromophenyl-phenylether	0.4	0.42	ug/L	105				20	150	20	
	Hexachlorobenzene	0.4	0.41	ug/L	103				62	127	20	
	Atrazine	0.4	0.44	ug/L	110				20	150	20	
	Pentachlorophenol	0.8	0.35	ug/L	44				10	137	20	
	Phenanthrene	0.4	0.37	ug/L	93				65	117	20	
	Anthracene	0.4	0.37	ug/L	93				57	118	20	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BN072024

Client: _____

Analytical Method: **8270-Modified**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB162139BSD	Fluoranthene	0.4	0.36	ug/L	90				53	126	20
	Pyrene	0.4	0.36	ug/L	90				54	124	20
	Benzo(a)anthracene	0.4	0.41	ug/L	103				54	130	20
	Chrysene	0.4	0.39	ug/L	98				64	126	20
	bis(2-Ethylhexyl)phthalate	0.4	0.62	ug/L	155		*		40	137	20
	Benzo(b)fluoranthene	0.4	0.35	ug/L	88				65	121	20
	Benzo(k)fluoranthene	0.4	0.34	ug/L	85				72	119	20
	Benzo(a)pyrene	0.4	0.37	ug/L	93				68	120	20
	Indeno(1,2,3-cd)pyrene	0.4	0.39	ug/L	98				70	127	20
	Dibenz(a,h)anthracene	0.4	0.4	ug/L	100				65	121	20
	Benzo(g,h,i)perylene	0.4	0.38	ug/L	95				76	117	20
	1,4-Dioxane	0.4	0.33	ug/L	83				60	132	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162139BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN072024

SAS No.: BN072024 SDG NO.: BN072024

Lab File ID: BN032876.D

Lab Sample ID: PB162139BL

Instrument ID: BNA_N

Date Extracted: 07/18/2024

Matrix: (soil/water) Water

Date Analyzed: 07/20/2024

Level: (low/med) LOW

Time Analyzed: 14:46

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162139BS	PB162139BS	BN032877.D	07/20/2024
PB162139BSD	PB162139BSD	BN032878.D	07/20/2024
IDW-T1-01	P3282-04	BN032879.D	07/20/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162161BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN072024

SAS No.: BN072024 SDG NO.: BN072024

Lab File ID: BN032880.D

Lab Sample ID: PB162161BL

Instrument ID: BNA_N

Date Extracted: 07/19/2024

Matrix: (soil/water) Water

Date Analyzed: 07/20/2024

Level: (low/med) LOW

Time Analyzed: 17:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SP-303-20240717	P3299-03	BN032883.D	07/20/2024
VPB189-HYD-20240717	P3307-02	BN032884.D	07/20/2024
SP-100-20240717	P3299-01	BN032881.D	07/20/2024
SP-201-20240717	P3299-02	BN032882.D	07/20/2024

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: **BN072024**

Client: _____

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3282-04	IDW-T1-01	BN032879.D	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
			Fluoranthene-d10	0.4	0.39	96		30	150
			2-Fluorophenol	0.4	0.22	54		10	92
			Phenol-d6	0.4	0.13	34		10	100
			Nitrobenzene-d5	0.4	0.28	69		11	175
			2-Fluorobiphenyl	0.4	0.34	84		10	175
			2,4,6-Tribromophenol	0.4	0.36	91		24	148
			Terphenyl-d14	0.4	0.43	106		54	171
PB162139BL	PB162139BL	BN032876.D	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
			Fluoranthene-d10	0.4	0.39	97		30	150
			2-Fluorophenol	0.4	0.48	120	*	10	92
			Phenol-d6	0.4	0.44	111	*	10	100
			Nitrobenzene-d5	0.4	0.43	108		11	175
			2-Fluorobiphenyl	0.4	0.35	88		10	175
			2,4,6-Tribromophenol	0.4	0.15	38		24	148
			Terphenyl-d14	0.4	0.38	94		54	171
PB162139BS	PB162139BS	BN032877.D	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
			Fluoranthene-d10	0.4	0.37	92		30	150
			2-Fluorophenol	0.4	0.44	109	*	10	92
			Phenol-d6	0.4	0.46	115	*	10	100
			Nitrobenzene-d5	0.4	0.41	102		11	175
			2-Fluorobiphenyl	0.4	0.41	103		10	175
			2,4,6-Tribromophenol	0.4	0.31	77		24	148
			Terphenyl-d14	0.4	0.39	97		54	171
PB162139BSD	PB162139BSD	BN032878.D	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
			Fluoranthene-d10	0.4	0.38	94		30	150
			2-Fluorophenol	0.4	0.41	103	*	10	92
			Phenol-d6	0.4	0.45	111	*	10	100
			Nitrobenzene-d5	0.4	0.40	100		11	175
			2-Fluorobiphenyl	0.4	0.43	107		10	175
			2,4,6-Tribromophenol	0.4	0.32	81		24	148
			Terphenyl-d14	0.4	0.38	94		54	171

Surrogate Summary

SW-846

SDG No.: **BN072024**

Client: _____

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3299-01	SP-100-20240717	BN032881.D	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
			Fluoranthene-d10	0.4	0.38	95		30	150
			2-Fluorophenol	0.4	0.15	37		10	92
			Phenol-d6	0.4	0.11	26		10	100
			Nitrobenzene-d5	0.4	0.33	83		11	175
			2-Fluorobiphenyl	0.4	0.30	75		10	175
			2,4,6-Tribromophenol	0.4	0.27	67		24	148
			Terphenyl-d14	0.4	0.43	107		54	171
P3299-02	SP-201-20240717	BN032882.D	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
			Fluoranthene-d10	0.4	0.33	83		30	150
			2-Fluorophenol	0.4	0.18	46		10	92
			Phenol-d6	0.4	0.09	23		10	100
			Nitrobenzene-d5	0.4	0.28	70		11	175
			2-Fluorobiphenyl	0.4	0.24	60		10	175
			2,4,6-Tribromophenol	0.4	0.22	56		24	148
			Terphenyl-d14	0.4	0.38	95		54	171
P3299-03	SP-303-20240717	BN032883.D	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
			Fluoranthene-d10	0.4	0.36	90		30	150
			2-Fluorophenol	0.4	0.23	58		10	92
			Phenol-d6	0.4	0.12	29		10	100
			Nitrobenzene-d5	0.4	0.34	85		11	175
			2-Fluorobiphenyl	0.4	0.29	73		10	175
			2,4,6-Tribromophenol	0.4	0.26	66		24	148
			Terphenyl-d14	0.4	0.40	100		54	171
P3307-02	VPB189-HYD-2024	BN032884.D	2-Methylnaphthalene-d10	0.4	0.00	1	*	30	150
			Fluoranthene-d10	0.4	0.23	58		30	150
			2-Fluorophenol	0.4	0.02	5	*	10	92
			Phenol-d6	0.4	0.00	1	*	10	100
			Nitrobenzene-d5	0.4	0.00	1	*	11	175
			2-Fluorobiphenyl	0.4	0.29	73		10	175
			2,4,6-Tribromophenol	0.4	0.03	6	*	24	148
			Terphenyl-d14	0.4	0.41	102		54	171
PB162161BL	PB162161BL	BN032880.D	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
			Fluoranthene-d10	0.4	0.36	89		30	150
			2-Fluorophenol	0.4	0.39	98	*	10	92
			Phenol-d6	0.4	0.34	84		10	100
			Nitrobenzene-d5	0.4	0.33	83		11	175
			2-Fluorobiphenyl	0.4	0.31	76		10	175
			2,4,6-Tribromophenol	0.4	0.20	50		24	148
			Terphenyl-d14	0.4	0.35	88		54	171

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN072024

Lab Code: CHEM

SAS No.: BN072024 SDG NO.: BN072024

Lab File ID: BN032874.D

DFTPP Injection Date: 07/20/2024

Instrument ID: BNA_N

DFTPP Injection Time: 12:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.9
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.2
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	27.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	11.6
442	Greater than 50% of mass 198	70.3
443	15.0 - 24.0% of mass 442	14.4 (20.4) 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	BN032875.D	07/20/2024	14:10
PB162139BL	PB162139BL	BN032876.D	07/20/2024	14:46
PB162139BS	PB162139BS	BN032877.D	07/20/2024	15:22
PB162139BSD	PB162139BSD	BN032878.D	07/20/2024	15:58
IDW-T1-01	P3282-04	BN032879.D	07/20/2024	16:34
PB162161BL	PB162161BL	BN032880.D	07/20/2024	17:11
SP-100-20240717	P3299-01	BN032881.D	07/20/2024	17:47
SP-201-20240717	P3299-02	BN032882.D	07/20/2024	18:23
SP-303-20240717	P3299-03	BN032883.D	07/20/2024	18:59
VPB189-HYD-20240717	P3307-02	BN032884.D	07/20/2024	19:35