

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN072224 SAS No.: BN072224 SDG No.: BN072224
Instrument ID: BNA_N Calibration Date/Time: 7/22/2024 1:10:45
Lab File ID: BN032886.D Init. Calib. Date(s): _____
EPA Sample No.: SSTD0.4273 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.547	0.569	0.010	4.0177	40.0
1,4-Dioxane-d8	0.480	0.485	0.010	0.9651	40.0
Naphthalene	1.074	1.018	0.600	-5.2643	30.0
1-Methylnaphthalene	0.693	0.638	0.300	-7.931	30.0
2-Methylnaphthalene	0.670	0.606	0.300	-9.6557	30.0
Acenaphthylene	1.616	1.682	0.900	4.1174	30.0
Acenaphthene	1.336	1.257	0.500	-5.9247	30.0
Fluorene	1.528	1.267	0.700	-17.0607	30.0
Pentachlorophenol	0.070	0.081	0.010	14.8729	50.0
Phenanthrene	1.089	1.009	0.300	-7.3413	30.0
Anthracene	0.890	0.912	0.400	2.4809	30.0
Fluoranthene	1.626	1.372	0.400	-15.6473	30.0
Pyrene	1.683	1.453	0.500	-13.6773	30.0
Benzo (a) anthracene	1.273	1.312	0.400	3.082	30.0
Chrysene	1.842	1.575	0.400	-14.5181	30.0
Benzo (b) fluoranthene	1.411	1.186	0.200	-15.9413	30.0
Benzo (k) fluoranthene	1.720	1.366	0.200	-20.5717	30.0
Benzo (a) pyrene	1.221	1.073	0.200	-12.1818	30.0
Indeno (1,2,3-cd) pyrene	1.654	1.586	0.200	-4.1249	30.0
Dibenzo (a,h) anthracene	1.282	1.230	0.200	-4.0601	30.0
Benzo (g,h,i) perylene	1.382	1.279	0.200	-7.4835	30.0
Fluoranthene-d10	1.304	1.157	0.400	-11.2335	30.0
2-Methylnaphthalene-d10	0.605	0.563	0.300	-6.798	30.0

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.: BN072224 SAS No.: BN072224 SDG No.: BN072224
 Instrument ID: BNA_N Calibration Date/Time: 7/22/2024 1:17:23
 Lab File ID: BN032897.D Init. Calib. Date(s): _____
 EPA Sample No.: SSTD0.4274 Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.547	0.536	0.010	-2.0198	50.0
1,4-Dioxane-d8	0.480	0.471	0.010	-1.984	50.0
Naphthalene	1.074	1.024	0.600	-4.6333	50.0
1-Methylnaphthalene	0.693	0.631	0.300	-9.0647	50.0
2-Methylnaphthalene	0.670	0.620	0.300	-7.554	50.0
Acenaphthylene	1.616	1.735	0.900	7.3377	50.0
Acenaphthene	1.336	1.251	0.500	-6.3912	50.0
Fluorene	1.528	1.313	0.700	-14.0616	50.0
Pentachlorophenol	0.070	0.094	0.010	33.9166	50.0
Phenanthrene	1.089	1.018	0.300	-6.5106	50.0
Anthracene	0.890	0.944	0.400	6.0613	50.0
Fluoranthene	1.626	1.362	0.400	-16.2436	50.0
Pyrene	1.683	1.449	0.500	-13.9078	50.0
Benzo (a) anthracene	1.273	1.356	0.400	6.5146	50.0
Chrysene	1.842	1.520	0.400	-17.4906	50.0
Benzo (b) fluoranthene	1.411	1.230	0.200	-12.8591	50.0
Benzo (k) fluoranthene	1.720	1.271	0.200	-26.1109	50.0
Benzo (a) pyrene	1.221	1.082	0.200	-11.4269	50.0
Indeno (1,2,3-cd) pyrene	1.654	1.585	0.200	-4.1685	50.0
Dibenzo (a,h) anthracene	1.282	1.264	0.200	-1.4296	50.0
Benzo (g,h,i) perylene	1.382	1.254	0.200	-9.238	50.0
Fluoranthene-d10	1.304	1.149	0.400	-11.8772	50.0
2-Methylnaphthalene-d10	0.605	0.572	0.300	-5.3434	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	7/15/2024 12:00:00 AM
Project:		Date Received:	7/15/2024 12:00:00 AM
Client Sample ID:	SBLK058	SDG No.:	BN072224
Lab Sample ID:	PB162058BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032887.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.1	U	1.1	0	6.7	ug/Kg
91-20-3	Naphthalene	0.37	U	0.37	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	0.85	U	0.85	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	0.34	U	0.34	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	0.47	U	0.47	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	0.39	U	0.39	0.83	3.3	ug/Kg
86-73-7	Fluorene	0.68	U	0.68	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	1.4	U	1.4	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	0.51	U	0.51	0.83	3.3	ug/Kg
120-12-7	Anthracene	0.52	U	0.52	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	0.68	U	0.68	0.83	3.3	ug/Kg
129-00-0	Pyrene	0.52	U	0.52	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	0.42	U	0.42	0.83	3.3	ug/Kg
218-01-9	Chrysene	0.42	U	0.42	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.21	U	0.21	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.39	U	0.39	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	0.36	U	0.36	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.86	U	0.86	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.89	U	0.89	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.98	U	0.98	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.445		15-120		56	SPK: -8
93951-69-0	Fluoranthene-d10	0.205		30-130		51	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.206		20-140		51	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4250		7.523			
1146-65-2	Naphthalene-d8	13497		10.288			
15067-26-2	Acenaphthene-d10	7178		14.174			

Report of Analysis

Client:		Date Collected:	7/15/2024 12:00:00 AM
Project:		Date Received:	7/15/2024 12:00:00 AM
Client Sample ID:	SBLK058	SDG No.:	BN072224
Lab Sample ID:	PB162058BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032887.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12813	16.936				
1719-03-5	Chrysene-d12	10792	21.168				
1520-96-3	Perylene-d12	11248	23.348				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.1	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D24	SDG No.:	BN072224
Lab Sample ID:	P3215-11	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	62.6
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032888.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.9	U	2.9	0	18	ug/Kg
91-20-3	Naphthalene	8.1	J	0.99	2.2	8.8	ug/Kg
90-12-0	1-Methylnaphthalene	2.6	J	2.3	2.2	8.8	ug/Kg
91-57-6	2-Methylnaphthalene	4.1	J	0.91	2.2	8.8	ug/Kg
208-96-8	Acenaphthylene	12		1.3	2.2	8.8	ug/Kg
83-32-9	Acenaphthene	3.8	J	1	2.2	8.8	ug/Kg
86-73-7	Fluorene	6.1	J	1.8	2.2	8.8	ug/Kg
87-86-5	Pentachlorophenol	3.7	U	3.7	4.5	18	ug/Kg
85-01-8	Phenanthrene	48		1.4	2.2	8.8	ug/Kg
120-12-7	Anthracene	16		1.4	2.2	8.8	ug/Kg
206-44-0	Fluoranthene	93		1.8	2.2	8.8	ug/Kg
129-00-0	Pyrene	92		1.4	2.2	8.8	ug/Kg
56-55-3	Benzo(a)anthracene	54		1.1	2.2	8.8	ug/Kg
218-01-9	Chrysene	48		1.1	2.2	8.8	ug/Kg
205-99-2	Benzo(b)fluoranthene	68		0.56	2.2	8.8	ug/Kg
207-08-9	Benzo(k)fluoranthene	20		1	2.2	8.8	ug/Kg
50-32-8	Benzo(a)pyrene	54		0.96	2.2	8.8	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	30		2.3	2.2	8.8	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	9.4		2.4	2.2	8.8	ug/Kg
191-24-2	Benzo(g,h,i)perylene	37		2.6	2.2	8.8	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.595		15-120		32	SPK: -8
93951-69-0	Fluoranthene-d10	0.192		30-130		48	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.183		20-140		46	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4248		7.523			
1146-65-2	Naphthalene-d8	14433		10.288			
15067-26-2	Acenaphthene-d10	8546		14.174			

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D24	SDG No.:	BN072224
Lab Sample ID:	P3215-11	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	62.6
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032888.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	14702	16.936				
1719-03-5	Chrysene-d12	10773	21.156				
1520-96-3	Perylene-d12	11811	23.345				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	2.9	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D25	SDG No.:	BN072224
Lab Sample ID:	P3215-12	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	62.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032889.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.9	U	2.9	0	18	ug/Kg
91-20-3	Naphthalene	12		0.97	2.2	8.7	ug/Kg
90-12-0	1-Methylnaphthalene	2.3	J	2.2	2.2	8.7	ug/Kg
91-57-6	2-Methylnaphthalene	4.7	J	0.89	2.2	8.7	ug/Kg
208-96-8	Acenaphthylene	18		1.2	2.2	8.7	ug/Kg
83-32-9	Acenaphthene	6.8	J	1	2.2	8.7	ug/Kg
86-73-7	Fluorene	10		1.8	2.2	8.7	ug/Kg
87-86-5	Pentachlorophenol	3.7	U	3.7	4.4	18	ug/Kg
85-01-8	Phenanthrene	58		1.3	2.2	8.7	ug/Kg
120-12-7	Anthracene	31		1.4	2.2	8.7	ug/Kg
206-44-0	Fluoranthene	170	E	1.8	2.2	8.7	ug/Kg
129-00-0	Pyrene	150	E	1.4	2.2	8.7	ug/Kg
56-55-3	Benzo(a)anthracene	110		1.1	2.2	8.7	ug/Kg
218-01-9	Chrysene	88		1.1	2.2	8.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	130		0.55	2.2	8.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	37		1	2.2	8.7	ug/Kg
50-32-8	Benzo(a)pyrene	100		0.95	2.2	8.7	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	54		2.3	2.2	8.7	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	17		2.3	2.2	8.7	ug/Kg
191-24-2	Benzo(g,h,i)perylene	59		2.6	2.2	8.7	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.454		15-120		31	SPK: -8
93951-69-0	Fluoranthene-d10	0.138		30-130		34	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.146		20-140		36	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4095		7.523			
1146-65-2	Naphthalene-d8	12671		10.288			
15067-26-2	Acenaphthene-d10	6901		14.174			

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D25	SDG No.:	BN072224
Lab Sample ID:	P3215-12	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	62.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032889.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	13695	16.936				
1719-03-5	Chrysene-d12	12868	21.156				
1520-96-3	Perylene-d12	13931	23.345				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	2.9	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D23	SDG No.:	BN072224
Lab Sample ID:	P3215-08	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	68.8
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032890.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.5	U	3.5	0	21	ug/Kg
91-20-3	Naphthalene	10	J	1.2	2.6	11	ug/Kg
90-12-0	1-Methylnaphthalene	3.2	J	2.7	2.6	11	ug/Kg
91-57-6	2-Methylnaphthalene	4.7	J	1.1	2.6	11	ug/Kg
208-96-8	Acenaphthylene	22		1.5	2.6	11	ug/Kg
83-32-9	Acenaphthene	5.8	J	1.3	2.6	11	ug/Kg
86-73-7	Fluorene	7.7	J	2.2	2.6	11	ug/Kg
87-86-5	Pentachlorophenol	4.5	U	4.5	5.4	21	ug/Kg
85-01-8	Phenanthrene	87		1.6	2.6	11	ug/Kg
120-12-7	Anthracene	29		1.7	2.6	11	ug/Kg
206-44-0	Fluoranthene	180	E	2.2	2.6	11	ug/Kg
129-00-0	Pyrene	160		1.7	2.6	11	ug/Kg
56-55-3	Benzo(a)anthracene	110		1.3	2.6	11	ug/Kg
218-01-9	Chrysene	100		1.3	2.6	11	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	E	0.67	2.6	11	ug/Kg
207-08-9	Benzo(k)fluoranthene	50		1.3	2.6	11	ug/Kg
50-32-8	Benzo(a)pyrene	120		1.2	2.6	11	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	76		2.8	2.6	11	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	22		2.9	2.6	11	ug/Kg
191-24-2	Benzo(g,h,i)perylene	91		3.1	2.6	11	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.62		15-120		45	SPK: -8
93951-69-0	Fluoranthene-d10	0.221		30-130		55	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.241		20-140		60	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4147		7.523			
1146-65-2	Naphthalene-d8	12043		10.288			
15067-26-2	Acenaphthene-d10	6775		14.174			

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D23	SDG No.:	BN072224
Lab Sample ID:	P3215-08	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	68.8
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032890.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12967	16.936				
1719-03-5	Chrysene-d12	11215	21.156				
1520-96-3	Perylene-d12	11843	23.345				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	3.5	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D23MS	SDG No.:	BN072224
Lab Sample ID:	P3215-09MS	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	68.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	500 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
BN032891.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	100		3.5	0	21	ug/Kg
91-20-3	Naphthalene	32		1.2	2.6	11	ug/Kg
90-12-0	1-Methylnaphthalene	26		2.7	2.6	11	ug/Kg
91-57-6	2-Methylnaphthalene	28		1.1	2.6	11	ug/Kg
208-96-8	Acenaphthylene	42		1.5	2.6	11	ug/Kg
83-32-9	Acenaphthene	29		1.2	2.6	11	ug/Kg
86-73-7	Fluorene	27		2.2	2.6	11	ug/Kg
87-86-5	Pentachlorophenol	69		4.5	5.4	21	ug/Kg
85-01-8	Phenanthrene	86		1.6	2.6	11	ug/Kg
120-12-7	Anthracene	50		1.7	2.6	11	ug/Kg
206-44-0	Fluoranthene	160		2.2	2.6	11	ug/Kg
129-00-0	Pyrene	140		1.7	2.6	11	ug/Kg
56-55-3	Benzo(a)anthracene	110		1.3	2.6	11	ug/Kg
218-01-9	Chrysene	86		1.3	2.6	11	ug/Kg
205-99-2	Benzo(b)fluoranthene	120		0.67	2.6	11	ug/Kg
207-08-9	Benzo(k)fluoranthene	50		1.2	2.6	11	ug/Kg
50-32-8	Benzo(a)pyrene	98		1.2	2.6	11	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	70		2.7	2.6	11	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	37		2.8	2.6	11	ug/Kg
191-24-2	Benzo(g,h,i)perylene	79		3.1	2.6	11	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.383		15-120		48	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.231		30-130		58	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.234		20-140		58	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3718	7.527				
1146-65-2	Naphthalene-d8	11604	10.299				
15067-26-2	Acenaphthene-d10	5888	14.179				

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D23MS	SDG No.:	BN072224
Lab Sample ID:	P3215-09MS	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	68.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	500 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
BN032891.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	11117	16.94				
1719-03-5	Chrysene-d12	10212	21.156				
1520-96-3	Perylene-d12	12736	23.348				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	3.5	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D23MSD	SDG No.:	BN072224
Lab Sample ID:	P3215-10MSD	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	68.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	500 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
BN032892.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	98		3.5	0	21	ug/Kg
91-20-3	Naphthalene	32		1.2	2.6	11	ug/Kg
90-12-0	1-Methylnaphthalene	26		2.7	2.6	11	ug/Kg
91-57-6	2-Methylnaphthalene	28		1.1	2.6	11	ug/Kg
208-96-8	Acenaphthylene	41		1.5	2.6	11	ug/Kg
83-32-9	Acenaphthene	29		1.2	2.6	11	ug/Kg
86-73-7	Fluorene	27		2.2	2.6	11	ug/Kg
87-86-5	Pentachlorophenol	67		4.5	5.4	21	ug/Kg
85-01-8	Phenanthrene	86		1.6	2.6	11	ug/Kg
120-12-7	Anthracene	50		1.7	2.6	11	ug/Kg
206-44-0	Fluoranthene	160		2.2	2.6	11	ug/Kg
129-00-0	Pyrene	150		1.7	2.6	11	ug/Kg
56-55-3	Benzo(a)anthracene	110		1.3	2.6	11	ug/Kg
218-01-9	Chrysene	85		1.3	2.6	11	ug/Kg
205-99-2	Benzo(b)fluoranthene	130		0.67	2.6	11	ug/Kg
207-08-9	Benzo(k)fluoranthene	54		1.2	2.6	11	ug/Kg
50-32-8	Benzo(a)pyrene	99		1.2	2.6	11	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	71		2.8	2.6	11	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	38		2.8	2.6	11	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80		3.1	2.6	11	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.383		15-120		48	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.243		30-130		61	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.234		20-140		58	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3819	7.527				
1146-65-2	Naphthalene-d8	11775	10.299				
15067-26-2	Acenaphthene-d10	6127	14.179				

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D23MSD	SDG No.:	BN072224
Lab Sample ID:	P3215-10MSD	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	68.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	500 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
BN032892.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	11224	16.94				
1719-03-5	Chrysene-d12	9943	21.156				
1520-96-3	Perylene-d12	12664	23.348				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	3.5	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CJ6	SDG No.:	BN072224
Lab Sample ID:	P3215-21	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	22
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032893.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.4	U	1.4	0	8.6	ug/Kg
91-20-3	Naphthalene	9.7		0.47	1.1	4.2	ug/Kg
90-12-0	1-Methylnaphthalene	5.1		1.1	1.1	4.2	ug/Kg
91-57-6	2-Methylnaphthalene	5.5		0.44	1.1	4.2	ug/Kg
208-96-8	Acenaphthylene	17		0.6	1.1	4.2	ug/Kg
83-32-9	Acenaphthene	22		0.5	1.1	4.2	ug/Kg
86-73-7	Fluorene	20		0.87	1.1	4.2	ug/Kg
87-86-5	Pentachlorophenol	1.8	U	1.8	2.1	8.6	ug/Kg
85-01-8	Phenanthrene	240	E	0.65	1.1	4.2	ug/Kg
120-12-7	Anthracene	63		0.67	1.1	4.2	ug/Kg
206-44-0	Fluoranthene	290	E	0.87	1.1	4.2	ug/Kg
129-00-0	Pyrene	240	E	0.67	1.1	4.2	ug/Kg
56-55-3	Benzo(a)anthracene	180	E	0.54	1.1	4.2	ug/Kg
218-01-9	Chrysene	130	E	0.54	1.1	4.2	ug/Kg
205-99-2	Benzo(b)fluoranthene	180	E	0.27	1.1	4.2	ug/Kg
207-08-9	Benzo(k)fluoranthene	60		0.5	1.1	4.2	ug/Kg
50-32-8	Benzo(a)pyrene	92	E	0.46	1.1	4.2	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	61		1.1	1.1	4.2	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	25		1.1	1.1	4.2	ug/Kg
191-24-2	Benzo(g,h,i)perylene	9.7		1.3	1.1	4.2	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.092		15-120		39	SPK: -8
93951-69-0	Fluoranthene-d10	0.183		30-130		46	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.189		20-140		47	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4346		7.523			
1146-65-2	Naphthalene-d8	13346		10.288			
15067-26-2	Acenaphthene-d10	6958		14.174			

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CJ6	SDG No.:	BN072224
Lab Sample ID:	P3215-21	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	22
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032893.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	13816	16.936				
1719-03-5	Chrysene-d12	10782	21.153				
1520-96-3	Perylene-d12	11657	23.345				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.4	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CJ4	SDG No.:	BN072224
Lab Sample ID:	P3215-19	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	28.8
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032894.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.5	U	1.5	0	9.4	ug/Kg
91-20-3	Naphthalene	33		0.52	1.2	4.6	ug/Kg
90-12-0	1-Methylnaphthalene	13		1.2	1.2	4.6	ug/Kg
91-57-6	2-Methylnaphthalene	18		0.48	1.2	4.6	ug/Kg
208-96-8	Acenaphthylene	45		0.66	1.2	4.6	ug/Kg
83-32-9	Acenaphthene	61		0.55	1.2	4.6	ug/Kg
86-73-7	Fluorene	61		0.95	1.2	4.6	ug/Kg
87-86-5	Pentachlorophenol	2.3	J	2	2.3	9.4	ug/Kg
85-01-8	Phenanthrene	870	E	0.71	1.2	4.6	ug/Kg
120-12-7	Anthracene	210	E	0.73	1.2	4.6	ug/Kg
206-44-0	Fluoranthene	1100	E	0.95	1.2	4.6	ug/Kg
129-00-0	Pyrene	830	E	0.73	1.2	4.6	ug/Kg
56-55-3	Benzo(a)anthracene	700	E	0.59	1.2	4.6	ug/Kg
218-01-9	Chrysene	510	E	0.59	1.2	4.6	ug/Kg
205-99-2	Benzo(b)fluoranthene	670	E	0.29	1.2	4.6	ug/Kg
207-08-9	Benzo(k)fluoranthene	200	E	0.55	1.2	4.6	ug/Kg
50-32-8	Benzo(a)pyrene	330	E	0.5	1.2	4.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	220	E	1.2	1.2	4.6	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	E	1.2	1.2	4.6	ug/Kg
191-24-2	Benzo(g,h,i)perylene	35		1.4	1.2	4.6	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.371		15-120		42	SPK: -8
93951-69-0	Fluoranthene-d10	0.23		30-130		57	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.214		20-140		53	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4361		7.523			
1146-65-2	Naphthalene-d8	13474		10.288			
15067-26-2	Acenaphthene-d10	7295		14.174			

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CJ4	SDG No.:	BN072224
Lab Sample ID:	P3215-19	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	28.8
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032894.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12701	16.936				
1719-03-5	Chrysene-d12	10313	21.153				
1520-96-3	Perylene-d12	13126	23.342				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.5	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D26	SDG No.:	BN072224
Lab Sample ID:	P3215-13	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	5.5
Sample Wt/Vol:	30	Units:	g
Soil Aliquot Vol:		Final Vol:	500
		Test:	
Extraction Type :		Decanted :	Level :
Injection Volume :		GPC Factor :	Level :
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN032895.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.2	U	1.2	0	7.1	ug/Kg
91-20-3	Naphthalene	46		0.39	0.87	3.5	ug/Kg
90-12-0	1-Methylnaphthalene	68	E	0.9	0.87	3.5	ug/Kg
91-57-6	2-Methylnaphthalene	68	E	0.36	0.87	3.5	ug/Kg
208-96-8	Acenaphthylene	36		0.5	0.87	3.5	ug/Kg
83-32-9	Acenaphthene	8		0.41	0.87	3.5	ug/Kg
86-73-7	Fluorene	8		0.72	0.87	3.5	ug/Kg
87-86-5	Pentachlorophenol	1.5	U	1.5	1.8	7.1	ug/Kg
85-01-8	Phenanthrene	240	E	0.54	0.87	3.5	ug/Kg
120-12-7	Anthracene	41		0.55	0.87	3.5	ug/Kg
206-44-0	Fluoranthene	300	E	0.72	0.87	3.5	ug/Kg
129-00-0	Pyrene	170	E	0.55	0.87	3.5	ug/Kg
56-55-3	Benzo(a)anthracene	190	E	0.44	0.87	3.5	ug/Kg
218-01-9	Chrysene	200	E	0.44	0.87	3.5	ug/Kg
205-99-2	Benzo(b)fluoranthene	220	E	0.22	0.87	3.5	ug/Kg
207-08-9	Benzo(k)fluoranthene	54		0.41	0.87	3.5	ug/Kg
50-32-8	Benzo(a)pyrene	65	E	0.38	0.87	3.5	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	51		0.91	0.87	3.5	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	36		0.94	0.87	3.5	ug/Kg
191-24-2	Benzo(g,h,i)perylene	10		1	0.87	3.5	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.111		15-120		39	SPK: -8
93951-69-0	Fluoranthene-d10	0.196		30-130		49	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.218		20-140		54	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4041		7.523			
1146-65-2	Naphthalene-d8	13187		10.288			
15067-26-2	Acenaphthene-d10	8526		14.174			

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4D26	SDG No.:	BN072224
Lab Sample ID:	P3215-13	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	5.5
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032895.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	14973	16.931				
1719-03-5	Chrysene-d12	13777	21.153				
1520-96-3	Perylene-d12	17829	23.345				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.2	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CJ8	SDG No.:	BN072224
Lab Sample ID:	P3215-23	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	10.3
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032896.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.2	U	1.2	0	7.4	ug/Kg
91-20-3	Naphthalene	17		0.41	0.92	3.7	ug/Kg
90-12-0	1-Methylnaphthalene	8.9		0.94	0.92	3.7	ug/Kg
91-57-6	2-Methylnaphthalene	13		0.38	0.92	3.7	ug/Kg
208-96-8	Acenaphthylene	34		0.52	0.92	3.7	ug/Kg
83-32-9	Acenaphthene	21		0.43	0.92	3.7	ug/Kg
86-73-7	Fluorene	19		0.76	0.92	3.7	ug/Kg
87-86-5	Pentachlorophenol	8		1.6	1.9	7.4	ug/Kg
85-01-8	Phenanthrene	280	E	0.57	0.92	3.7	ug/Kg
120-12-7	Anthracene	83	E	0.58	0.92	3.7	ug/Kg
206-44-0	Fluoranthene	400	E	0.76	0.92	3.7	ug/Kg
129-00-0	Pyrene	300	E	0.58	0.92	3.7	ug/Kg
56-55-3	Benzo(a)anthracene	260	E	0.47	0.92	3.7	ug/Kg
218-01-9	Chrysene	200	E	0.47	0.92	3.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	290	E	0.23	0.92	3.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	86	E	0.43	0.92	3.7	ug/Kg
50-32-8	Benzo(a)pyrene	140	E	0.4	0.92	3.7	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94	E	0.96	0.92	3.7	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	44		0.99	0.92	3.7	ug/Kg
191-24-2	Benzo(g,h,i)perylene	18		1.1	0.92	3.7	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.581		15-120		32	SPK: -8
93951-69-0	Fluoranthene-d10	0.185		30-130		46	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.196		20-140		49	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4224		7.523			
1146-65-2	Naphthalene-d8	13358		10.287			
15067-26-2	Acenaphthene-d10	7476		14.173			

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CJ8	SDG No.:	BN072224
Lab Sample ID:	P3215-23	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	10.3
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032896.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	12894	16.934				
1719-03-5	Chrysene-d12	10675	21.155				
1520-96-3	Perylene-d12	12480	23.344				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.2	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/15/2024 12:00:00 AM
Project:		Date Received:	7/15/2024 12:00:00 AM
Client Sample ID:	SBLK058	SDG No.:	BN072224
Lab Sample ID:	PB162058BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032898.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.1	U	1.1	0	6.7	ug/Kg
91-20-3	Naphthalene	0.37	U	0.37	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	0.85	U	0.85	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	0.34	U	0.34	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	0.47	U	0.47	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	0.39	U	0.39	0.83	3.3	ug/Kg
86-73-7	Fluorene	0.68	U	0.68	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	1.4	U	1.4	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	0.51	U	0.51	0.83	3.3	ug/Kg
120-12-7	Anthracene	0.52	U	0.52	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	0.68	U	0.68	0.83	3.3	ug/Kg
129-00-0	Pyrene	0.52	U	0.52	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	0.42	U	0.42	0.83	3.3	ug/Kg
218-01-9	Chrysene	0.42	U	0.42	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.21	U	0.21	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.39	U	0.39	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	0.36	U	0.36	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.86	U	0.86	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.89	U	0.89	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.98	U	0.98	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.472		15-120		56	SPK: -8
93951-69-0	Fluoranthene-d10	0.215		30-130		54	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.229		20-140		57	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4592		7.523			
1146-65-2	Naphthalene-d8	15161		10.288			
15067-26-2	Acenaphthene-d10	8191		14.174			

Report of Analysis

Client:		Date Collected:	7/15/2024 12:00:00 AM
Project:		Date Received:	7/15/2024 12:00:00 AM
Client Sample ID:	SBLK058	SDG No.:	BN072224
Lab Sample ID:	PB162058BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	Final Vol:	500 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
BN032898.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	13621	16.936				
1719-03-5	Chrysene-d12	11386	21.168				
1520-96-3	Perylene-d12	12135	23.351				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.1	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4BD4	SDG No.:	BN072224
Lab Sample ID:	P3215-02	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	12.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032899.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.2	U	1.2	0	7.6	ug/Kg
91-20-3	Naphthalene	0.42	U	0.42	0.94	3.7	ug/Kg
90-12-0	1-Methylnaphthalene	0.96	U	0.96	0.94	3.7	ug/Kg
91-57-6	2-Methylnaphthalene	0.39	U	0.39	0.94	3.7	ug/Kg
208-96-8	Acenaphthylene	0.53	U	0.53	0.94	3.7	ug/Kg
83-32-9	Acenaphthene	0.44	U	0.44	0.94	3.7	ug/Kg
86-73-7	Fluorene	0.77	U	0.77	0.94	3.7	ug/Kg
87-86-5	Pentachlorophenol	1.6	U	1.6	1.9	7.6	ug/Kg
85-01-8	Phenanthrene	0.58	U	0.58	0.94	3.7	ug/Kg
120-12-7	Anthracene	0.59	U	0.59	0.94	3.7	ug/Kg
206-44-0	Fluoranthene	2.6	J	0.77	0.94	3.7	ug/Kg
129-00-0	Pyrene	2	J	0.59	0.94	3.7	ug/Kg
56-55-3	Benzo(a)anthracene	1.1	J	0.48	0.94	3.7	ug/Kg
218-01-9	Chrysene	0.94	J	0.48	0.94	3.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	1.9	J	0.24	0.94	3.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.44	U	0.44	0.94	3.7	ug/Kg
50-32-8	Benzo(a)pyrene	0.41	U	0.41	0.94	3.7	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.98	U	0.98	0.94	3.7	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1	U	1	0.94	3.7	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1.1	U	1.1	0.94	3.7	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.272		15-120		53	SPK: -8
93951-69-0	Fluoranthene-d10	0.36		30-130		90	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.348		20-140		87	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4159		7.519			
1146-65-2	Naphthalene-d8	13662		10.288			
15067-26-2	Acenaphthene-d10	8241		14.174			

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4BD4	SDG No.:	BN072224
Lab Sample ID:	P3215-02	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	12.1
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032899.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	13204	16.936				
1719-03-5	Chrysene-d12	10114	21.162				
1520-96-3	Perylene-d12	10352	23.345				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.2	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4BD3	SDG No.:	BN072224
Lab Sample ID:	P3215-01	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	11.5
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032900.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.2	U	1.2	0	7.5	ug/Kg
91-20-3	Naphthalene	2.6	J	0.42	0.93	3.7	ug/Kg
90-12-0	1-Methylnaphthalene	1.8	J	0.96	0.93	3.7	ug/Kg
91-57-6	2-Methylnaphthalene	1.9	J	0.38	0.93	3.7	ug/Kg
208-96-8	Acenaphthylene	8.5		0.53	0.93	3.7	ug/Kg
83-32-9	Acenaphthene	6.4		0.44	0.93	3.7	ug/Kg
86-73-7	Fluorene	7.1		0.77	0.93	3.7	ug/Kg
87-86-5	Pentachlorophenol	1.6	U	1.6	1.9	7.5	ug/Kg
85-01-8	Phenanthrene	140	E	0.57	0.93	3.7	ug/Kg
120-12-7	Anthracene	33		0.59	0.93	3.7	ug/Kg
206-44-0	Fluoranthene	260	E	0.77	0.93	3.7	ug/Kg
129-00-0	Pyrene	150	E	0.59	0.93	3.7	ug/Kg
56-55-3	Benzo(a)anthracene	140	E	0.47	0.93	3.7	ug/Kg
218-01-9	Chrysene	110	E	0.47	0.93	3.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	E	0.24	0.93	3.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	54		0.44	0.93	3.7	ug/Kg
50-32-8	Benzo(a)pyrene	53		0.41	0.93	3.7	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46		0.97	0.93	3.7	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	23		1	0.93	3.7	ug/Kg
191-24-2	Benzo(g,h,i)perylene	7.2		1.1	0.93	3.7	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.952		15-120		37	SPK: -8
93951-69-0	Fluoranthene-d10	0.227		30-130		57	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.226		20-140		56	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4452		7.523			
1146-65-2	Naphthalene-d8	15096		10.288			
15067-26-2	Acenaphthene-d10	9033		14.174			

Report of Analysis

Client:		Date Collected:	7/10/2024 12:00:00 AM
Project:		Date Received:	7/10/2024 12:00:00 AM
Client Sample ID:	A4BD3	SDG No.:	BN072224
Lab Sample ID:	P3215-01	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	11.5
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032900.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	14651	16.936				
1719-03-5	Chrysene-d12	10598	21.153				
1520-96-3	Perylene-d12	12116	23.345				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.2	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CJ5	SDG No.:	BN072224
Lab Sample ID:	P3215-20	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	35.4
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032901.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.7	U	1.7	0	10	ug/Kg
91-20-3	Naphthalene	7.9		0.57	1.3	5.1	ug/Kg
90-12-0	1-Methylnaphthalene	2.7	J	1.3	1.3	5.1	ug/Kg
91-57-6	2-Methylnaphthalene	4.1	J	0.52	1.3	5.1	ug/Kg
208-96-8	Acenaphthylene	15		0.73	1.3	5.1	ug/Kg
83-32-9	Acenaphthene	9.5		0.6	1.3	5.1	ug/Kg
86-73-7	Fluorene	14		1	1.3	5.1	ug/Kg
87-86-5	Pentachlorophenol	2.2	U	2.2	2.6	10	ug/Kg
85-01-8	Phenanthrene	270	E	0.79	1.3	5.1	ug/Kg
120-12-7	Anthracene	51		0.8	1.3	5.1	ug/Kg
206-44-0	Fluoranthene	1	U	1	1.3	5.1	ug/Kg
129-00-0	Pyrene	0.8	U	0.8	1.3	5.1	ug/Kg
56-55-3	Benzo(a)anthracene	0.65	U	0.65	1.3	5.1	ug/Kg
218-01-9	Chrysene	0.65	U	0.65	1.3	5.1	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.32	U	0.32	1.3	5.1	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.6	U	0.6	1.3	5.1	ug/Kg
50-32-8	Benzo(a)pyrene	0.56	U	0.56	1.3	5.1	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	U	1.3	1.3	5.1	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1.4	U	1.4	1.3	5.1	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1.5	U	1.5	1.3	5.1	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.4		15-120		30	SPK: -8
93951-69-0	Fluoranthene-d10	0	U	30-130		0	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.177		20-140		44	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4412		7.523			
1146-65-2	Naphthalene-d8	15314		10.288			
15067-26-2	Acenaphthene-d10	9232		14.174			

Report of Analysis

Client:		Date Collected:	7/12/2024 12:00:00 AM
Project:		Date Received:	7/12/2024 12:00:00 AM
Client Sample ID:	A4CJ5	SDG No.:	BN072224
Lab Sample ID:	P3215-20	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	35.4
Sample Wt/Vol:	30.1 Units: g	Final Vol:	500 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
BN032901.D	1	7/15/2024 12:00:00 AM	7/22/2024 12:00:00 AM	PB162058

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	16859	16.931				
1719-03-5	Chrysene-d12	0	0				
1520-96-3	Perylene-d12	0	0				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.7	U			99	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN072224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : A4BD3								
P3215-01	A4BD3	Solid	Total Alkanes	*	0.000	1.2	7.5	ug/Kg
			Total Tics :			0.00		
P3215-01	A4BD3	Solid	1-Methylnaphthalene		1.800 J	0.96	3.7	ug/Kg
P3215-01	A4BD3	Solid	2-Methylnaphthalene		1.900 J	0.38	3.7	ug/Kg
P3215-01	A4BD3	Solid	Acenaphthene		6.400	0.44	3.7	ug/Kg
P3215-01	A4BD3	Solid	Acenaphthylene		8.500	0.53	3.7	ug/Kg
P3215-01	A4BD3	Solid	Anthracene		33.000	0.59	3.7	ug/Kg
P3215-01	A4BD3	Solid	Benzo(a)anthracene		140.000 E	0.47	3.7	ug/Kg
P3215-01	A4BD3	Solid	Benzo(a)pyrene		53.000	0.41	3.7	ug/Kg
P3215-01	A4BD3	Solid	Benzo(b)fluoranthene		170.000 E	0.24	3.7	ug/Kg
P3215-01	A4BD3	Solid	Benzo(g,h,i)perylene		7.200	1.1	3.7	ug/Kg
P3215-01	A4BD3	Solid	Benzo(k)fluoranthene		54.000	0.44	3.7	ug/Kg
P3215-01	A4BD3	Solid	Chrysene		110.000 E	0.47	3.7	ug/Kg
P3215-01	A4BD3	Solid	Dibenzo(a,h)anthracene		23.000	1	3.7	ug/Kg
P3215-01	A4BD3	Solid	Fluoranthene		260.000 E	0.77	3.7	ug/Kg
P3215-01	A4BD3	Solid	Fluorene		7.100	0.77	3.7	ug/Kg
P3215-01	A4BD3	Solid	Indeno(1,2,3-cd)pyrene		46.000	0.97	3.7	ug/Kg
P3215-01	A4BD3	Solid	Naphthalene		2.600 J	0.42	3.7	ug/Kg
P3215-01	A4BD3	Solid	Phenanthrene		140.000 E	0.57	3.7	ug/Kg
P3215-01	A4BD3	Solid	Pyrene		150.000 E	0.59	3.7	ug/Kg
			Total Svoc :			1,214.50		
			Total Concentration:			1,214.50		
Client ID : A4BD4								
P3215-02	A4BD4	Solid	Total Alkanes	*	0.000	1.2	7.6	ug/Kg
			Total Tics :			0.00		
P3215-02	A4BD4	Solid	Benzo(a)anthracene		1.100 J	0.48	3.7	ug/Kg
P3215-02	A4BD4	Solid	Benzo(b)fluoranthene		1.900 J	0.24	3.7	ug/Kg
P3215-02	A4BD4	Solid	Chrysene		0.940 J	0.48	3.7	ug/Kg
P3215-02	A4BD4	Solid	Fluoranthene		2.600 J	0.77	3.7	ug/Kg
P3215-02	A4BD4	Solid	Pyrene		2.000 J	0.59	3.7	ug/Kg
			Total Svoc :			8.54		
			Total Concentration:			8.54		
Client ID : A4D23								
P3215-08	A4D23	Solid	Total Alkanes	*	0.000	3.5	21	ug/Kg
			Total Tics :			0.00		
P3215-08	A4D23	Solid	1-Methylnaphthalene		3.200 J	2.7	11	ug/Kg
P3215-08	A4D23	Solid	2-Methylnaphthalene		4.700 J	1.1	11	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN072224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3215-08	A4D23	Solid	Acenaphthene	5.800	J	1.3	11	ug/Kg
P3215-08	A4D23	Solid	Acenaphthylene	22.000		1.5	11	ug/Kg
P3215-08	A4D23	Solid	Anthracene	29.000		1.7	11	ug/Kg
P3215-08	A4D23	Solid	Benzo(a)anthracene	110.000		1.3	11	ug/Kg
P3215-08	A4D23	Solid	Benzo(a)pyrene	120.000		1.2	11	ug/Kg
P3215-08	A4D23	Solid	Benzo(b)fluoranthene	170.000	E	0.67	11	ug/Kg
P3215-08	A4D23	Solid	Benzo(g,h,i)perylene	91.000		3.1	11	ug/Kg
P3215-08	A4D23	Solid	Benzo(k)fluoranthene	50.000		1.3	11	ug/Kg
P3215-08	A4D23	Solid	Chrysene	100.000		1.3	11	ug/Kg
P3215-08	A4D23	Solid	Dibenzo(a,h)anthracene	22.000		2.9	11	ug/Kg
P3215-08	A4D23	Solid	Fluoranthene	180.000	E	2.2	11	ug/Kg
P3215-08	A4D23	Solid	Fluorene	7.700	J	2.2	11	ug/Kg
P3215-08	A4D23	Solid	Indeno(1,2,3-cd)pyrene	76.000		2.8	11	ug/Kg
P3215-08	A4D23	Solid	Naphthalene	10.000	J	1.2	11	ug/Kg
P3215-08	A4D23	Solid	Phenanthrene	87.000		1.6	11	ug/Kg
P3215-08	A4D23	Solid	Pyrene	160.000		1.7	11	ug/Kg
Total Svoc :				1,248.40				
Total Concentration:				1,248.40				

Client ID : A4D24

P3215-11	A4D24	Solid	Total Alkanes	*	0.000	2.9	18	ug/Kg
Total Tics :					0.00			
P3215-11	A4D24	Solid	1-Methylnaphthalene		2.600	J 2.3	8.8	ug/Kg
P3215-11	A4D24	Solid	2-Methylnaphthalene		4.100	J 0.91	8.8	ug/Kg
P3215-11	A4D24	Solid	Acenaphthene		3.800	J 1	8.8	ug/Kg
P3215-11	A4D24	Solid	Acenaphthylene		12.000	1.3	8.8	ug/Kg
P3215-11	A4D24	Solid	Anthracene		16.000	1.4	8.8	ug/Kg
P3215-11	A4D24	Solid	Benzo(a)anthracene		54.000	1.1	8.8	ug/Kg
P3215-11	A4D24	Solid	Benzo(a)pyrene		54.000	0.96	8.8	ug/Kg
P3215-11	A4D24	Solid	Benzo(b)fluoranthene		68.000	0.56	8.8	ug/Kg
P3215-11	A4D24	Solid	Benzo(g,h,i)perylene		37.000	2.6	8.8	ug/Kg
P3215-11	A4D24	Solid	Benzo(k)fluoranthene		20.000	1	8.8	ug/Kg
P3215-11	A4D24	Solid	Chrysene		48.000	1.1	8.8	ug/Kg
P3215-11	A4D24	Solid	Dibenzo(a,h)anthracene		9.400	2.4	8.8	ug/Kg
P3215-11	A4D24	Solid	Fluoranthene		93.000	1.8	8.8	ug/Kg
P3215-11	A4D24	Solid	Fluorene		6.100	J 1.8	8.8	ug/Kg
P3215-11	A4D24	Solid	Indeno(1,2,3-cd)pyrene		30.000	2.3	8.8	ug/Kg
P3215-11	A4D24	Solid	Naphthalene		8.100	J 0.99	8.8	ug/Kg
P3215-11	A4D24	Solid	Phenanthrene		48.000	1.4	8.8	ug/Kg
P3215-11	A4D24	Solid	Pyrene		92.000	1.4	8.8	ug/Kg
Total Svoc :					606.10			

Hit Summary Sheet SW-846

SDG No.: BN072224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:				606.10				
Client ID :	A4D25							
P3215-12	A4D25	Solid	Total Alkanes	*	0.000	2.9	18	ug/Kg
Total Tics :				0.00				
P3215-12	A4D25	Solid	1-Methylnaphthalene		2.300	J 2.2	8.7	ug/Kg
P3215-12	A4D25	Solid	2-Methylnaphthalene		4.700	J 0.89	8.7	ug/Kg
P3215-12	A4D25	Solid	Acenaphthene		6.800	J 1	8.7	ug/Kg
P3215-12	A4D25	Solid	Acenaphthylene		18.000	1.2	8.7	ug/Kg
P3215-12	A4D25	Solid	Anthracene		31.000	1.4	8.7	ug/Kg
P3215-12	A4D25	Solid	Benzo(a)anthracene		110.000	1.1	8.7	ug/Kg
P3215-12	A4D25	Solid	Benzo(a)pyrene		100.000	0.95	8.7	ug/Kg
P3215-12	A4D25	Solid	Benzo(b)fluoranthene		130.000	0.55	8.7	ug/Kg
P3215-12	A4D25	Solid	Benzo(g,h,i)perylene		59.000	2.6	8.7	ug/Kg
P3215-12	A4D25	Solid	Benzo(k)fluoranthene		37.000	1	8.7	ug/Kg
P3215-12	A4D25	Solid	Chrysene		88.000	1.1	8.7	ug/Kg
P3215-12	A4D25	Solid	Dibenzo(a,h)anthracene		17.000	2.3	8.7	ug/Kg
P3215-12	A4D25	Solid	Fluoranthene		170.000	E 1.8	8.7	ug/Kg
P3215-12	A4D25	Solid	Fluorene		10.000	1.8	8.7	ug/Kg
P3215-12	A4D25	Solid	Indeno(1,2,3-cd)pyrene		54.000	2.3	8.7	ug/Kg
P3215-12	A4D25	Solid	Naphthalene		12.000	0.97	8.7	ug/Kg
P3215-12	A4D25	Solid	Phenanthrene		58.000	1.3	8.7	ug/Kg
P3215-12	A4D25	Solid	Pyrene		150.000	E 1.4	8.7	ug/Kg
Total Svoc :				1,057.80				
Total Concentration:				1,057.80				
Client ID :	A4D26							
P3215-13	A4D26	Solid	Total Alkanes	*	0.000	1.2	7.1	ug/Kg
Total Tics :				0.00				
P3215-13	A4D26	Solid	1-Methylnaphthalene		68.000	E 0.9	3.5	ug/Kg
P3215-13	A4D26	Solid	2-Methylnaphthalene		68.000	E 0.36	3.5	ug/Kg
P3215-13	A4D26	Solid	Acenaphthene		8.000	0.41	3.5	ug/Kg
P3215-13	A4D26	Solid	Acenaphthylene		36.000	0.5	3.5	ug/Kg
P3215-13	A4D26	Solid	Anthracene		41.000	0.55	3.5	ug/Kg
P3215-13	A4D26	Solid	Benzo(a)anthracene		190.000	E 0.44	3.5	ug/Kg
P3215-13	A4D26	Solid	Benzo(a)pyrene		65.000	E 0.38	3.5	ug/Kg
P3215-13	A4D26	Solid	Benzo(b)fluoranthene		220.000	E 0.22	3.5	ug/Kg
P3215-13	A4D26	Solid	Benzo(g,h,i)perylene		10.000	1	3.5	ug/Kg
P3215-13	A4D26	Solid	Benzo(k)fluoranthene		54.000	0.41	3.5	ug/Kg
P3215-13	A4D26	Solid	Chrysene		200.000	E 0.44	3.5	ug/Kg
P3215-13	A4D26	Solid	Dibenzo(a,h)anthracene		36.000	0.94	3.5	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN072224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3215-13	A4D26	Solid	Fluoranthene	300.000	E	0.72	3.5	ug/Kg
P3215-13	A4D26	Solid	Fluorene	8.000		0.72	3.5	ug/Kg
P3215-13	A4D26	Solid	Indeno(1,2,3-cd)pyrene	51.000		0.91	3.5	ug/Kg
P3215-13	A4D26	Solid	Naphthalene	46.000		0.39	3.5	ug/Kg
P3215-13	A4D26	Solid	Phenanthrene	240.000	E	0.54	3.5	ug/Kg
P3215-13	A4D26	Solid	Pyrene	170.000	E	0.55	3.5	ug/Kg
Total Svoc :				1,811.00				
Total Concentration:				1,811.00				
Client ID : A4CJ4								
P3215-19	A4CJ4	Solid	Total Alkanes	*	0.000	1.5	9.4	ug/Kg
Total Tics :				0.00				
P3215-19	A4CJ4	Solid	1-Methylnaphthalene	13.000		1.2	4.6	ug/Kg
P3215-19	A4CJ4	Solid	2-Methylnaphthalene	18.000		0.48	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Acenaphthene	61.000		0.55	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Acenaphthylene	45.000		0.66	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Anthracene	210.000	E	0.73	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Benzo(a)anthracene	700.000	E	0.59	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Benzo(a)pyrene	330.000	E	0.5	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Benzo(b)fluoranthene	670.000	E	0.29	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Benzo(g,h,i)perylene	35.000		1.4	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Benzo(k)fluoranthene	200.000	E	0.55	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Chrysene	510.000	E	0.59	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Dibenzo(a,h)anthracene	100.000	E	1.2	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Fluoranthene	1,100.000	E	0.95	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Fluorene	61.000		0.95	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Indeno(1,2,3-cd)pyrene	220.000	E	1.2	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Naphthalene	33.000		0.52	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Pentachlorophenol	2.300	J	2	9.4	ug/Kg
P3215-19	A4CJ4	Solid	Phenanthrene	870.000	E	0.71	4.6	ug/Kg
P3215-19	A4CJ4	Solid	Pyrene	830.000	E	0.73	4.6	ug/Kg
Total Svoc :				6,008.30				
Total Concentration:				6,008.30				
Client ID : A4CJ5								
P3215-20	A4CJ5	Solid	Total Alkanes	*	0.000	1.7	10	ug/Kg
Total Tics :				0.00				
P3215-20	A4CJ5	Solid	1-Methylnaphthalene	2.700	J	1.3	5.1	ug/Kg
P3215-20	A4CJ5	Solid	2-Methylnaphthalene	4.100	J	0.52	5.1	ug/Kg
P3215-20	A4CJ5	Solid	Acenaphthene	9.500		0.6	5.1	ug/Kg
P3215-20	A4CJ5	Solid	Acenaphthylene	15.000		0.73	5.1	ug/Kg
P3215-20	A4CJ5	Solid	Anthracene	51.000		0.8	5.1	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN072224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3215-20	A4CJ5	Solid	Fluorene	14.000		1	5.1	ug/Kg
P3215-20	A4CJ5	Solid	Naphthalene	7.900		0.57	5.1	ug/Kg
P3215-20	A4CJ5	Solid	Phenanthrene	270.000	E	0.79	5.1	ug/Kg
Total Svoc :				374.20				
Total Concentration:				374.20				
Client ID : A4CJ6								
P3215-21	A4CJ6	Solid	Total Alkanes	*	0.000	1.4	8.6	ug/Kg
Total Tics :				0.00				
P3215-21	A4CJ6	Solid	1-Methylnaphthalene	5.100		1.1	4.2	ug/Kg
P3215-21	A4CJ6	Solid	2-Methylnaphthalene	5.500		0.44	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Acenaphthene	22.000		0.5	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Acenaphthylene	17.000		0.6	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Anthracene	63.000		0.67	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Benzo(a)anthracene	180.000	E	0.54	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Benzo(a)pyrene	92.000	E	0.46	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Benzo(b)fluoranthene	180.000	E	0.27	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Benzo(g,h,i)perylene	9.700		1.3	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Benzo(k)fluoranthene	60.000		0.5	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Chrysene	130.000	E	0.54	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Dibenzo(a,h)anthracene	25.000		1.1	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Fluoranthene	290.000	E	0.87	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Fluorene	20.000		0.87	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Indeno(1,2,3-cd)pyrene	61.000		1.1	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Naphthalene	9.700		0.47	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Phenanthrene	240.000	E	0.65	4.2	ug/Kg
P3215-21	A4CJ6	Solid	Pyrene	240.000	E	0.67	4.2	ug/Kg
Total Svoc :				1,650.00				
Total Concentration:				1,650.00				
Client ID : A4CJ8								
P3215-23	A4CJ8	Solid	Total Alkanes	*	0.000	1.2	7.4	ug/Kg
Total Tics :				0.00				
P3215-23	A4CJ8	Solid	1-Methylnaphthalene	8.900		0.94	3.7	ug/Kg
P3215-23	A4CJ8	Solid	2-Methylnaphthalene	13.000		0.38	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Acenaphthene	21.000		0.43	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Acenaphthylene	34.000		0.52	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Anthracene	83.000	E	0.58	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Benzo(a)anthracene	260.000	E	0.47	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Benzo(a)pyrene	140.000	E	0.4	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Benzo(b)fluoranthene	290.000	E	0.23	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Benzo(g,h,i)perylene	18.000		1.1	3.7	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN072224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3215-23	A4CJ8	Solid	Benzo(k)fluoranthene	86.000	E	0.43	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Chrysene	200.000	E	0.47	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Dibenzo(a,h)anthracene	44.000		0.99	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Fluoranthene	400.000	E	0.76	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Fluorene	19.000		0.76	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Indeno(1,2,3-cd)pyrene	94.000	E	0.96	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Naphthalene	17.000		0.41	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Pentachlorophenol	8.000		1.6	7.4	ug/Kg
P3215-23	A4CJ8	Solid	Phenanthrene	280.000	E	0.57	3.7	ug/Kg
P3215-23	A4CJ8	Solid	Pyrene	300.000	E	0.58	3.7	ug/Kg
Total Svoc :				2,315.90				
Total Concentration:				2,315.90				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN071224 SAS No.: BN071224 SDG No.: BN071224
Instrument ID: _____ Calibration Date(s): 7/11/2024 : _____
Calibration Time(s): 09:16 _____

LAB FILE ID:		RRFAL1 = BN032626.D			RRFAL2 = BN032627.D		RRFAL3 = BN032628.D	
		RRFAL4 = BN032629.D			RRFAL5 = BN032630.D		RRFAL6 = BN032631.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.583	0.585	0.560	0.504	0.503	0.547	7.4
1,4-Dioxane-d8		0.487	0.508	0.500	0.455	0.452	0.480	5.3
Naphthalene	1.103	1.068	1.065	1.090	1.044		1.074	2.1
1-Methylnaphthalene	0.608	0.672	0.696	0.750	0.739		0.693	8.2
2-Methylnaphthalene	0.591	0.643	0.683	0.725	0.711		0.670	8.1
Acenaphthylene	1.531	1.588	1.592	1.694	1.675		1.616	4.2
Acenaphthene	1.329	1.334	1.326	1.378	1.314		1.336	1.8
Fluorene	1.455	1.510	1.525	1.604	1.544		1.528	3.6
Pentachlorophenol		0.063	0.061	0.067	0.073	0.087	0.070	15.2
Phenanthrene	1.075	1.056	1.067	1.135	1.114		1.089	3.1
Anthracene	0.784	0.849	0.880	0.956	0.981		0.890	9.0
Fluoranthene	1.713	1.614	1.561	1.637	1.607		1.626	3.4
Pyrene	1.816	1.681	1.614	1.673	1.632		1.683	4.7
Benzo(a)anthracene	1.224	1.233	1.200	1.340	1.369		1.273	5.9
Chrysene	2.127	1.907	1.780	1.791	1.605		1.842	10.4
Benzo(b)fluoranthene	1.363	1.381	1.309	1.503	1.501		1.411	6.1
Benzo(k)fluoranthene	1.903	1.659	1.680	1.708	1.650		1.720	6.1
Benzo(a)pyrene	1.271	1.199	1.172	1.243	1.222		1.221	3.2
Indeno(1,2,3-cd)pyrene	1.792	1.641	1.539	1.694	1.602		1.654	5.8
Dibenzo(a,h)anthracene	1.406	1.265	1.191	1.311	1.236		1.282	6.4
Benzo(g,h,i)perylene	1.587	1.388	1.281	1.378	1.276		1.382	9.1
Fluoranthene-d10	1.390	1.300	1.252	1.304	1.272		1.304	4.1
2-Methylnaphthalene-d10	0.622	0.569	0.598	0.626	0.607		0.605	3.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN072224 SAS No.: BN072224 SDG NO.: BN072224

EPA Sample No.: SSTD0.4239 Date Analyzed: Jul 22 2024 12:00AM

Lab File ID: BN032628.D Time Analyzed: 11:21

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	4009	7.578	13071	10.36	8475	14.22
UPPER LIMIT	8018	8.078	26142	10.86	16950	14.716
LOWER LIMIT	2004.5	7.078	6535.5	9.86	4237.5	13.716
EPA SAMPLE NO.						
01 SBLK058	4250	7.52	13497	10.29	7178	14.17
02 A4D24	4248	7.52	14433	10.29	8546	14.17
03 A4D25	4095	7.52	12671	10.29	6901	14.17
04 A4D23	4147	7.52	12043	10.29	6775	14.17
05 A4D23MS	3718	7.53	11604	10.30	5888	14.18
06 A4D23MSD	3819	7.53	11775	10.30	6127	14.18
07 A4CJ6	4346	7.52	13346	10.29	6958	14.17
08 A4CJ4	4361	7.52	13474	10.29	7295	14.17
09 A4D26	4041	7.52	13187	10.29	8526	14.17
10 A4CJ8	4224	7.52	13358	10.29	7476	14.17
11 SBLK058	4592	7.52	15161	10.29	8191	14.17
12 A4BD4	4159	7.52	13662	10.29	8241	14.17
13 A4BD3	4452	7.52	15096	10.29	9033	14.17
14 A4CJ5	4412	7.52	15314	10.29	9232	14.17

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.: BN072224 SAS No.: BN072224 SDG NO.: BN072224

EPA Sample No.: SSTD0.4273 Date Analyzed: Jul 22 2024 12:00AM

Lab File ID: BN032886.D Time Analyzed: 11:21

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	3151	7.536	9740	10.31	5096	14.18
	UPPER LIMIT	6302	8.036	19480	10.805	10192	14.679
	LOWER LIMIT	1575.5	7.036	4870	9.805	2548	13.679
	EPA SAMPLE NO.						
01	SBLK058	4250	7.52	13497	10.29	7178	14.17
02	A4D24	4248	7.52	14433	10.29	8546	14.17
03	A4D25	4095	7.52	12671	10.29	6901	14.17
04	A4D23	4147	7.52	12043	10.29	6775	14.17
05	A4D23MS	3718	7.53	11604	10.30	5888	14.18
06	A4D23MSD	3819	7.53	11775	10.30	6127	14.18
07	A4CJ6	4346	7.52	13346	10.29	6958	14.17
08	A4CJ4	4361	7.52	13474	10.29	7295	14.17
09	A4D26	4041	7.52	13187	10.29	8526	14.17
10	A4CJ8	4224	7.52	13358	10.29	7476	14.17

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.: BN072224 SAS No.: BN072224 SDG NO.: BN072224

EPA Sample No.: SSTD0.4274 Date Analyzed: Jul 22 2024 12:00AM

Lab File ID: BN032897.D Time Analyzed: 17:59

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	3403	7.532	11219	10.30	5609	14.18
UPPER LIMIT	6806	8.032	22438	10.804	11218	14.682
LOWER LIMIT	1701.5	7.032	5609.5	9.804	2804.5	13.682
EPA SAMPLE NO.						
01 SBLK058	4592	7.52	15161	10.29	8191	14.17
02 A4BD4	4159	7.52	13662	10.29	8241	14.17
03 A4BD3	4452	7.52	15096	10.29	9033	14.17
04 A4CJ5	4412	7.52	15314	10.29	9232	14.17

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.: BN072224 SAS No.: BN072224 SDG NO.: BN072224

EPA Sample No.: SSTD0.4239 Date Analyzed: Jul 22 2024 12:00AM

Lab File ID: BN032628.D Time Analyzed: 11:21

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	18870	16.991	15447	21.194	15389	23.398
	UPPER LIMIT	37740	17.491	30894	21.694	30778	23.898
	LOWER LIMIT	9435	16.491	7723.5	20.694	7694.5	22.898
	EPA SAMPLE NO.						
01	SBLK058	12813	16.94	10792	21.17	11248	23.35
02	A4D24	14702	16.94	10773	21.16	11811	23.35
03	A4D25	13695	16.94	12868	21.16	13931	23.35
04	A4D23	12967	16.94	11215	21.16	11843	23.35
05	A4D23MS	11117	16.94	10212	21.16	12736	23.35
06	A4D23MSD	11224	16.94	9943	21.16	12664	23.35
07	A4CJ6	13816	16.94	10782	21.15	11657	23.35
08	A4CJ4	12701	16.94	10313	21.15	13126	23.34
09	A4D26	14973	16.93	13777	21.15	17829	23.35
10	A4CJ8	12894	16.93	10675	21.16	12480	23.34
11	SBLK058	13621	16.94	11386	21.17	12135	23.35
12	A4BD4	13204	16.94	10114	21.16	10352	23.35
13	A4BD3	14651	16.94	10598	21.15	12116	23.35
14	A4CJ5	16859	16.93	0 *	0.00 *	0 *	0.00

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.: BN072224 SAS No.: BN072224 SDG NO.: BN072224

EPA Sample No.: SSTD0.4273 Date Analyzed: Jul 22 2024 12:00AM

Lab File ID: BN032886.D Time Analyzed: 11:21

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
01	12 HOUR STD	8621	16.953	7885	21.162	10002	23.354
	UPPER LIMIT	17242	17.453	15770	21.662	20004	23.854
	LOWER LIMIT	4310.5	16.453	3942.5	20.662	5001	22.854
	EPA SAMPLE NO.						
	SBLK058	12813	16.94	10792	21.17	11248	23.35
	A4D24	14702	16.94	10773	21.16	11811	23.35
	A4D25	13695	16.94	12868	21.16	13931	23.35
	A4D23	12967	16.94	11215	21.16	11843	23.35
	A4D23MS	11117	16.94	10212	21.16	12736	23.35
	A4D23MSD	11224	16.94	9943	21.16	12664	23.35
07	A4CJ6	13816	16.94	10782	21.15	11657	23.35
08	A4CJ4	12701	16.94	10313	21.15	13126	23.34
09	A4D26	14973	16.93	13777	21.15	17829	23.35
10	A4CJ8	12894	16.93	10675	21.16	12480	23.34

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.: BN072224 SAS No.: BN072224 SDG NO.: BN072224

EPA Sample No.: SSTD0.4274 Date Analyzed: Jul 22 2024 12:00AM

Lab File ID: BN032897.D Time Analyzed: 17:59

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	9704	16.951	8908	21.163	11124	23.358
UPPER LIMIT	19408	17.451	17816	21.663	22248	23.858
LOWER LIMIT	4852	16.451	4454	20.663	5562	22.858
EPA SAMPLE NO.						
01 SBLK058	13621	16.94	11386	21.17	12135	23.35
02 A4BD4	13204	16.94	10114	21.16	10352	23.35
03 A4BD3	14651	16.94	10598	21.15	12116	23.35
04 A4CJ5	16859	16.93	0 *	0.00 *	0 *	0.00 *

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK058

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN072224

SAS No.: BN072224 SDG NO.: BN072224

Lab File ID: BN032887.D

Lab Sample ID: PB162058BL

Instrument ID: BNA_N

Date Extracted: 07/15/2024

Matrix: (soil/water) Solid

Date Analyzed: 07/22/2024

Level: (low/med) LOW

Time Analyzed: 11:21

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
A4BD4	P3215-02	BN032899.D	07/22/2024
A4BD3	P3215-01	BN032900.D	07/22/2024
A4CJ5	P3215-20	BN032901.D	07/22/2024
A4D24	P3215-11	BN032888.D	07/22/2024
A4D25	P3215-12	BN032889.D	07/22/2024
A4D23	P3215-08	BN032890.D	07/22/2024
A4D23MS	P3215-09MS	BN032891.D	07/22/2024
A4D23MSD	P3215-10MSD	BN032892.D	07/22/2024
A4CJ6	P3215-21	BN032893.D	07/22/2024
A4CJ4	P3215-19	BN032894.D	07/22/2024
A4D26	P3215-13	BN032895.D	07/22/2024
A4CJ8	P3215-23	BN032896.D	07/22/2024

COMMENTS: _____

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BN072224

Client: _____

Analytical Method: SFAM_SVOASIM

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P3215-09MS	Client Sample ID:	A4D23MS					DataFile:	BN032891.D		
1,4-Dioxane	210		100	ug/Kg	48				15	120	
Naphthalene	42.6	10	32	ug/Kg	52				0	0	
1-Methylnaphthalene	42.6	3.2	26	ug/Kg	54				0	0	
2-Methylnaphthalene	42.6	4.7	28	ug/Kg	55				0	0	
Acenaphthylene	42.6	22	42	ug/Kg	47				0	0	
Acenaphthene	42.6	5.8	29	ug/Kg	54				31	137	
Fluorene	42.6	7.7	27	ug/Kg	45				0	0	
Pentachlorophenol	85.3		69	ug/Kg	81				17	109	
Phenanthrene	42.6	87	86	ug/Kg	-2				0	0	
Anthracene	42.6	29	50	ug/Kg	49				0	0	
Fluoranthene	42.6	180	160	ug/Kg	-47				0	0	
Pyrene	42.6	160	140	ug/Kg	-47	*			35	142	
Benzo(a)anthracene	42.6	110	110	ug/Kg	0				0	0	
Chrysene	42.6	100	86	ug/Kg	-33				0	0	
Benzo(b)fluoranthene	42.6	170	120	ug/Kg	-117				0	0	
Benzo(k)fluoranthene	42.6	50	50	ug/Kg	0				0	0	
Benzo(a)pyrene	42.6	120	98	ug/Kg	-52				0	0	
Indeno(1,2,3-cd)pyrene	42.6	76	70	ug/Kg	-14				0	0	
Dibenzo(a,h)anthracene	42.6	22	37	ug/Kg	35				0	0	
Benzo(g,h,i)perylene	42.6	91	79	ug/Kg	-28				0	0	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BN072224

Client: _____

Analytical Method: SFAM_SVOASIM

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P3215-10MSD	Client Sample ID:	A4D23MSD					DataFile:	BN032892.D		
1,4-Dioxane	210		98	ug/Kg	47		2		15	120	50
Naphthalene	42.6	10	32	ug/Kg	52		0		0	0	0
1-Methylnaphthalene	42.6	3.2	26	ug/Kg	54		0		0	0	0
2-Methylnaphthalene	42.6	4.7	28	ug/Kg	55		0		0	0	0
Acenaphthylene	42.6	22	41	ug/Kg	45		4	*	0	0	0
Acenaphthene	42.6	5.8	29	ug/Kg	54		0		31	137	19
Fluorene	42.6	7.7	27	ug/Kg	45		0		0	0	0
Pentachlorophenol	85.3		67	ug/Kg	79		3		17	109	47
Phenanthrene	42.6	87	86	ug/Kg	-2		0		0	0	0
Anthracene	42.6	29	50	ug/Kg	49		0		0	0	0
Fluoranthene	42.6	180	160	ug/Kg	-47		0		0	0	0
Pyrene	42.6	160	150	ug/Kg	-23	*	69	*	35	142	36
Benzo(a)anthracene	42.6	110	110	ug/Kg	0				0	0	0
Chrysene	42.6	100	85	ug/Kg	-35		6	*	0	0	0
Benzo(b)fluoranthene	42.6	170	130	ug/Kg	-94		22	*	0	0	0
Benzo(k)fluoranthene	42.6	50	54	ug/Kg	9		200	*	0	0	0
Benzo(a)pyrene	42.6	120	99	ug/Kg	-49		6	*	0	0	0
Indeno(1,2,3-cd)pyrene	42.6	76	71	ug/Kg	-12		15	*	0	0	0
Dibenzo(a,h)anthracene	42.6	22	38	ug/Kg	38		8	*	0	0	0
Benzo(g,h,i)perylene	42.6	91	80	ug/Kg	-26		7	*	0	0	0

Surrogate Summary

SW-846

SDG No.: **BN072224**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3215-01	A4BD3	BN032900.D	1,4-Dioxane-d8	8	2.95	37		15	120
			Fluoranthene-d10	0.4	0.23	57		30	130
			2-Methylnaphthalene-d10	0.4	0.23	56		20	140
P3215-02	A4BD4	BN032899.D	1,4-Dioxane-d8	8	4.27	53		15	120
			Fluoranthene-d10	0.4	0.36	90		30	130
			2-Methylnaphthalene-d10	0.4	0.35	87		20	140
P3215-08	A4D23	BN032890.D	1,4-Dioxane-d8	8	3.62	45		15	120
			Fluoranthene-d10	0.4	0.22	55		30	130
			2-Methylnaphthalene-d10	0.4	0.24	60		20	140
P3215-09MS	A4D23MS	BN032891.D	1,4-Dioxane-d8	0.8	0.38	48		15	120
			Fluoranthene-d10	0.4	0.23	58		30	130
			2-Methylnaphthalene-d10	0.4	0.23	58		20	140
P3215-10MSD	A4D23MSD	BN032892.D	1,4-Dioxane-d8	0.8	0.38	48		15	120
			Fluoranthene-d10	0.4	0.24	61		30	130
			2-Methylnaphthalene-d10	0.4	0.23	58		20	140
P3215-11	A4D24	BN032888.D	1,4-Dioxane-d8	8	2.60	32		15	120
			Fluoranthene-d10	0.4	0.19	48		30	130
			2-Methylnaphthalene-d10	0.4	0.18	46		20	140
P3215-12	A4D25	BN032889.D	1,4-Dioxane-d8	8	2.45	31		15	120
			Fluoranthene-d10	0.4	0.14	34		30	130
			2-Methylnaphthalene-d10	0.4	0.15	36		20	140
P3215-13	A4D26	BN032895.D	1,4-Dioxane-d8	8	3.11	39		15	120
			Fluoranthene-d10	0.4	0.20	49		30	130
			2-Methylnaphthalene-d10	0.4	0.22	54		20	140
P3215-19	A4CJ4	BN032894.D	1,4-Dioxane-d8	8	3.37	42		15	120
			Fluoranthene-d10	0.4	0.23	57		30	130
			2-Methylnaphthalene-d10	0.4	0.21	53		20	140
P3215-20	A4CJ5	BN032901.D	1,4-Dioxane-d8	8	2.40	30		15	120
			Fluoranthene-d10	0.4	0.00	0	*	30	130
			2-Methylnaphthalene-d10	0.4	0.18	44		20	140
P3215-21	A4CJ6	BN032893.D	1,4-Dioxane-d8	8	3.09	39		15	120
			Fluoranthene-d10	0.4	0.18	46		30	130
			2-Methylnaphthalene-d10	0.4	0.19	47		20	140
P3215-23	A4CJ8	BN032896.D	1,4-Dioxane-d8	8	2.58	32		15	120
			Fluoranthene-d10	0.4	0.19	46		30	130
			2-Methylnaphthalene-d10	0.4	0.20	49		20	140
PB162058BL	PB162058BL	BN032898.D	1,4-Dioxane-d8	8	4.47	56		15	120
		BN032887.D	1,4-Dioxane-d8	8	4.45	56		15	120
			Fluoranthene-d10	0.4	0.21	51		30	130
		BN032898.D	Fluoranthene-d10	0.4	0.22	54		30	130
			2-Methylnaphthalene-d10	0.4	0.23	57		20	140
		BN032887.D	2-Methylnaphthalene-d10	0.4	0.21	51		20	140

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN072224

Lab Code: CHEM

SAS No.: BN072224

SDG NO.: BN072224

Lab File ID: BN032885.D

DFTPP Injection Date: 07/22/2024

Instrument ID: BNA_N

DFTPP Injection Time: 10:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.5
68	Less than 2.0% of mass 69	0.4 (1.2) 1
69	Mass 69 relative abundance	34.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.3
197	Less than 2.0% of mass 198	0.3
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	27.4
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	10.3
442	Greater than 50% of mass 198	65.1
443	15.0 - 24.0% of mass 442	11.8 (18.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.4273	SSTDCCC0.4	BN032886.D	07/22/2024	10:45
SBLK058	PB162058BL	BN032887.D	07/22/2024	11:21
A4D24	P3215-11	BN032888.D	07/22/2024	11:58
A4D25	P3215-12	BN032889.D	07/22/2024	12:33
A4D23	P3215-08	BN032890.D	07/22/2024	13:10
A4D23MS	P3215-09MS	BN032891.D	07/22/2024	13:46
A4D23MSD	P3215-10MSD	BN032892.D	07/22/2024	14:22
A4CJ6	P3215-21	BN032893.D	07/22/2024	14:58
A4CJ4	P3215-19	BN032894.D	07/22/2024	15:35
A4D26	P3215-13	BN032895.D	07/22/2024	16:11
A4CJ8	P3215-23	BN032896.D	07/22/2024	16:47
SSTD0.4274	SSTDCCC0.4EC	BN032897.D	07/22/2024	17:23
SBLK058	PB162058BL	BN032898.D	07/22/2024	17:59
A4BD4	P3215-02	BN032899.D	07/22/2024	18:35
A4BD3	P3215-01	BN032900.D	07/22/2024	19:11
A4CJ5	P3215-20	BN032901.D	07/22/2024	19:47