

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN121224 SAS No.: BN121224 SDG No.: BN121224

Instrument ID: BNA_N Calibration Date/Time: 12/12/2024 : 10:41

Lab File ID: BN035579.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4363 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.397	0.466	0.010	17.5027	40.0
1,4-Dioxane-d8	0.366	0.410	0.010	12.2518	40.0
Naphthalene	1.008	1.095	0.600	8.6717	30.0
1-Methylnaphthalene	0.705	0.732	0.300	3.8307	30.0
2-Methylnaphthalene	0.699	0.710	0.300	1.5686	30.0
Acenaphthylene	1.587	1.646	0.900	3.7448	30.0
Acenaphthene	1.214	1.279	0.500	5.3603	30.0
Fluorene	1.425	1.424	0.700	-0.0895	30.0
Pentachlorophenol	0.093	0.099	0.010	6.2854	50.0
Phenanthrene	1.057	1.104	0.300	4.4279	30.0
Anthracene	0.981	0.966	0.400	-1.5542	30.0
Fluoranthene	1.393	1.661	0.400	19.2368	30.0
Pyrene	1.449	1.601	0.500	10.4615	30.0
Benzo (a) anthracene	1.388	1.370	0.400	-1.3196	30.0
Chrysene	1.397	1.479	0.400	5.9182	30.0
Benzo (b) fluoranthene	1.322	1.294	0.200	-2.1304	30.0
Benzo (k) fluoranthene	1.363	1.495	0.200	9.638	30.0
Benzo (a) pyrene	1.208	1.209	0.200	0.0555	30.0
Indeno (1,2,3-cd) pyrene	1.632	1.420	0.200	-13.0034	30.0
Dibenzo (a,h) anthracene	1.279	1.068	0.200	-16.5166	30.0
Benzo (g,h,i) perylene	1.287	1.116	0.200	-13.2447	30.0
Fluoranthene-d10	1.104	1.291	0.400	16.961	30.0
2-Methylnaphthalene-d10	0.586	0.595	0.300	1.556	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.: BN121224 SAS No.: BN121224 SDG No.: BN121224

Instrument ID: BNA_N Calibration Date/Time: 12/12/2024 : 16:46

Lab File ID: BN035587.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4364 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.397	0.408	0.010	2.7038	50.0
1,4-Dioxane-d8	0.366	0.337	0.010	-7.8321	50.0
Naphthalene	1.008	0.887	0.600	-11.9919	50.0
1-Methylnaphthalene	0.705	0.632	0.300	-10.3564	50.0
2-Methylnaphthalene	0.699	0.627	0.300	-10.2497	50.0
Acenaphthylene	1.587	1.618	0.900	1.9624	50.0
Acenaphthene	1.214	1.222	0.500	0.6674	50.0
Fluorene	1.425	1.403	0.700	-1.5518	50.0
Pentachlorophenol	0.093	0.123	0.010	32.2127	50.0
Phenanthrene	1.057	1.057	0.300	-0.0694	50.0
Anthracene	0.981	1.066	0.400	8.6579	50.0
Fluoranthene	1.393	1.394	0.400	0.1295	50.0
Pyrene	1.449	1.477	0.500	1.9092	50.0
Benzo (a) anthracene	1.388	1.366	0.400	-1.5528	50.0
Chrysene	1.397	1.375	0.400	-1.5293	50.0
Benzo (b) fluoranthene	1.322	1.286	0.200	-2.7065	50.0
Benzo (k) fluoranthene	1.363	1.334	0.200	-2.1453	50.0
Benzo (a) pyrene	1.208	1.244	0.200	2.9568	50.0
Indeno (1,2,3-cd) pyrene	1.632	1.709	0.200	4.7236	50.0
Dibenzo (a,h) anthracene	1.279	1.145	0.200	-10.5383	50.0
Benzo (g,h,i) perylene	1.287	1.209	0.200	-6.0149	50.0
Fluoranthene-d10	1.104	1.153	0.400	4.5044	50.0
2-Methylnaphthalene-d10	0.586	0.541	0.300	-7.7817	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	12/9/2024 12:00:00 AM
Project:		Date Received:	12/9/2024 12:00:00 AM
Client Sample ID:	SBLK482	SDG No.:	BN121224
Lab Sample ID:	PB165482BL	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
BN035580.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

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	5.583		15-120		70	SPK: -8
93951-69-0	Fluoranthene-d10	0.308		30-130		77	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.246		20-140		62	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3098		7.288			
1146-65-2	Naphthalene-d8	8139		10.031			
15067-26-2	Acenaphthene-d10	5176		13.949			

Report of Analysis

Client:		Date Collected:	12/9/2024 12:00:00 AM
Project:		Date Received:	12/9/2024 12:00:00 AM
Client Sample ID:	SBLK482	SDG No.:	BN121224
Lab Sample ID:	PB165482BL	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
BN035580.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	10673	16.717				
1719-03-5	Chrysene-d12	7546	20.964				
1520-96-3	Perylene-d12	7772	23.051				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.1	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/4/2024 12:00:00 AM
Project:		Date Received:	12/4/2024 12:00:00 AM
Client Sample ID:	E28P4DL	SDG No.:	BN121224
Lab Sample ID:	P5153-06DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	14.3
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
BN035581.D	5	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.4	U	6.4	0	39	ug/Kg
91-20-3	Naphthalene	2.2	U	2.2	4.8	19	ug/Kg
90-12-0	1-Methylnaphthalene	5.8	JD	4.9	4.8	19	ug/Kg
91-57-6	2-Methylnaphthalene	7.8	JD	2	4.8	19	ug/Kg
208-96-8	Acenaphthylene	2.7	U	2.7	4.8	19	ug/Kg
83-32-9	Acenaphthene	27	D	2.3	4.8	19	ug/Kg
86-73-7	Fluorene	29	D	4	4.8	19	ug/Kg
87-86-5	Pentachlorophenol	8.1	U	8.1	9.7	39	ug/Kg
85-01-8	Phenanthrene	200	D	3	4.8	19	ug/Kg
120-12-7	Anthracene	56	D	3	4.8	19	ug/Kg
206-44-0	Fluoranthene	220	D	4	4.8	19	ug/Kg
129-00-0	Pyrene	160	D	3	4.8	19	ug/Kg
56-55-3	Benzo(a)anthracene	69	D	2.4	4.8	19	ug/Kg
218-01-9	Chrysene	71	D	2.4	4.8	19	ug/Kg
205-99-2	Benzo(b)fluoranthene	77	D	1.2	4.8	19	ug/Kg
207-08-9	Benzo(k)fluoranthene	31	D	2.3	4.8	19	ug/Kg
50-32-8	Benzo(a)pyrene	63	D	2.1	4.8	19	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	22	D	5	4.8	19	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	5.2	U	5.2	4.8	19	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29	D	5.7	4.8	19	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.495		15-120		44	SPK: -8
93951-69-0	Fluoranthene-d10	0.385		30-130		96	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.23		20-140		57	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3311		7.284			
1146-65-2	Naphthalene-d8	9459		10.031			
15067-26-2	Acenaphthene-d10	6426		13.949			

Report of Analysis

Client:		Date Collected:	12/4/2024 12:00:00 AM
Project:		Date Received:	12/4/2024 12:00:00 AM
Client Sample ID:	E28P4DL	SDG No.:	BN121224
Lab Sample ID:	P5153-06DL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	14.3
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
BN035581.D	5	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	13741	16.717				
1719-03-5	Chrysene-d12	10688	20.964				
1520-96-3	Perylene-d12	9720	23.057				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	6.4	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28P8	SDG No.:	BN121224
Lab Sample ID:	P5153-11	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	27.8
Sample Wt/Vol:	30	Units:	g
Soil Aliquot Vol:		Final Vol:	500
		Test:	uL
Extraction Type :		Decanted :	Level :
			LOW
Injection Volume :		GPC Factor :	GPC Cleanup :
			PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035582.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.5	U	1.5	0	9.3	ug/Kg
91-20-3	Naphthalene	7.9		0.51	1.1	4.6	ug/Kg
90-12-0	1-Methylnaphthalene	4.6		1.2	1.1	4.6	ug/Kg
91-57-6	2-Methylnaphthalene	6.9		0.47	1.1	4.6	ug/Kg
208-96-8	Acenaphthylene	2.8	J	0.65	1.1	4.6	ug/Kg
83-32-9	Acenaphthene	0.92	J	0.54	1.1	4.6	ug/Kg
86-73-7	Fluorene	1.4	J	0.94	1.1	4.6	ug/Kg
87-86-5	Pentachlorophenol	1.9	U	1.9	2.3	9.3	ug/Kg
85-01-8	Phenanthrene	19		0.71	1.1	4.6	ug/Kg
120-12-7	Anthracene	5.1		0.72	1.1	4.6	ug/Kg
206-44-0	Fluoranthene	41		0.94	1.1	4.6	ug/Kg
129-00-0	Pyrene	34		0.72	1.1	4.6	ug/Kg
56-55-3	Benzo(a)anthracene	17		0.58	1.1	4.6	ug/Kg
218-01-9	Chrysene	25		0.58	1.1	4.6	ug/Kg
205-99-2	Benzo(b)fluoranthene	35		0.29	1.1	4.6	ug/Kg
207-08-9	Benzo(k)fluoranthene	11		0.54	1.1	4.6	ug/Kg
50-32-8	Benzo(a)pyrene	23		0.5	1.1	4.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	14		1.2	1.1	4.6	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	4.2	J	1.2	1.1	4.6	ug/Kg
191-24-2	Benzo(g,h,i)perylene	20		1.4	1.1	4.6	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.41		15-120		43	SPK: -8
93951-69-0	Fluoranthene-d10	0.179		30-130		45	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.181		20-140		45	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2985		7.288			
1146-65-2	Naphthalene-d8	8354		10.031			
15067-26-2	Acenaphthene-d10	5235		13.949			

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28P8	SDG No.:	BN121224
Lab Sample ID:	P5153-11	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	27.8
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
BN035582.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	10351	16.713				
1719-03-5	Chrysene-d12	7033	20.961				
1520-96-3	Perylene-d12	7352	23.051				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.5	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28P9	SDG No.:	BN121224
Lab Sample ID:	P5153-12	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	18.6
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500
		Test:	
Extraction Type :		Decanted :	Level :
Injection Volume :		GPC Factor :	LOW
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035583.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.3	U	1.3	0	8.2	ug/Kg
91-20-3	Naphthalene	34		0.45	1	4	ug/Kg
90-12-0	1-Methylnaphthalene	12		1	1	4	ug/Kg
91-57-6	2-Methylnaphthalene	19		0.42	1	4	ug/Kg
208-96-8	Acenaphthylene	14		0.58	1	4	ug/Kg
83-32-9	Acenaphthene	2.3	J	0.48	1	4	ug/Kg
86-73-7	Fluorene	6.1		0.83	1	4	ug/Kg
87-86-5	Pentachlorophenol	1.7	U	1.7	2.1	8.2	ug/Kg
85-01-8	Phenanthrene	84	E	0.62	1	4	ug/Kg
120-12-7	Anthracene	27		0.64	1	4	ug/Kg
206-44-0	Fluoranthene	130	E	0.83	1	4	ug/Kg
129-00-0	Pyrene	100	E	0.64	1	4	ug/Kg
56-55-3	Benzo(a)anthracene	77	E	0.51	1	4	ug/Kg
218-01-9	Chrysene	130	E	0.51	1	4	ug/Kg
205-99-2	Benzo(b)fluoranthene	180	E	0.26	1	4	ug/Kg
207-08-9	Benzo(k)fluoranthene	46		0.48	1	4	ug/Kg
50-32-8	Benzo(a)pyrene	89	E	0.44	1	4	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	68	E	1.1	1	4	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29		1.1	1	4	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	E	1.2	1	4	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.981		15-120		75	SPK: -8
93951-69-0	Fluoranthene-d10	0.434		30-130		108	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.359		20-140		90	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2705		7.288			
1146-65-2	Naphthalene-d8	7246		10.031			
15067-26-2	Acenaphthene-d10	4654		13.949			

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28P9	SDG No.:	BN121224
Lab Sample ID:	P5153-12	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	18.6
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
BN035583.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	9182	16.713				
1719-03-5	Chrysene-d12	6707	20.967				
1520-96-3	Perylene-d12	7497	23.068				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.3	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28Q0	SDG No.:	BN121224
Lab Sample ID:	P5153-13	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	31.2
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:		Final Vol:	500
		Test:	uL
Extraction Type :		Decanted :	Level :
			LOW
Injection Volume :		GPC Factor :	GPC Cleanup :
			PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035584.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.6	U	1.6	0	9.7	ug/Kg
91-20-3	Naphthalene	17		0.54	1.2	4.8	ug/Kg
90-12-0	1-Methylnaphthalene	15		1.2	1.2	4.8	ug/Kg
91-57-6	2-Methylnaphthalene	19		0.49	1.2	4.8	ug/Kg
208-96-8	Acenaphthylene	12		0.68	1.2	4.8	ug/Kg
83-32-9	Acenaphthene	1.2	J	0.56	1.2	4.8	ug/Kg
86-73-7	Fluorene	4.1	J	0.99	1.2	4.8	ug/Kg
87-86-5	Pentachlorophenol	2	U	2	2.4	9.7	ug/Kg
85-01-8	Phenanthrene	33		0.74	1.2	4.8	ug/Kg
120-12-7	Anthracene	19		0.75	1.2	4.8	ug/Kg
206-44-0	Fluoranthene	380	E	0.99	1.2	4.8	ug/Kg
129-00-0	Pyrene	350	E	0.75	1.2	4.8	ug/Kg
56-55-3	Benzo(a)anthracene	330	E	0.61	1.2	4.8	ug/Kg
218-01-9	Chrysene	260	E	0.61	1.2	4.8	ug/Kg
205-99-2	Benzo(b)fluoranthene	440	E	0.3	1.2	4.8	ug/Kg
207-08-9	Benzo(k)fluoranthene	130	E	0.56	1.2	4.8	ug/Kg
50-32-8	Benzo(a)pyrene	310	E	0.52	1.2	4.8	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	E	1.2	1.2	4.8	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	56		1.3	1.2	4.8	ug/Kg
191-24-2	Benzo(g,h,i)perylene	190	E	1.4	1.2	4.8	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.102		15-120		51	SPK: -8
93951-69-0	Fluoranthene-d10	0.176		30-130		44	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	2970		7.289			
1146-65-2	Naphthalene-d8	8533		10.037			
15067-26-2	Acenaphthene-d10	5329		13.949			

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28Q0	SDG No.:	BN121224
Lab Sample ID:	P5153-13	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	31.2
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
BN035584.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	9947	16.717				
1719-03-5	Chrysene-d12	7536	20.964				
1520-96-3	Perylene-d12	8814	23.054				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.6	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28Q1	SDG No.:	BN121224
Lab Sample ID:	P5153-14	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	12.5
Sample Wt/Vol:	30.1	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
BN035585.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.3	U	1.3	0	7.6	ug/Kg
91-20-3	Naphthalene	16		0.42	0.94	3.8	ug/Kg
90-12-0	1-Methylnaphthalene	9.1		0.97	0.94	3.8	ug/Kg
91-57-6	2-Methylnaphthalene	15		0.39	0.94	3.8	ug/Kg
208-96-8	Acenaphthylene	7.9		0.54	0.94	3.8	ug/Kg
83-32-9	Acenaphthene	1.1	J	0.44	0.94	3.8	ug/Kg
86-73-7	Fluorene	2.9	J	0.77	0.94	3.8	ug/Kg
87-86-5	Pentachlorophenol	1.6	U	1.6	1.9	7.6	ug/Kg
85-01-8	Phenanthrene	33		0.58	0.94	3.8	ug/Kg
120-12-7	Anthracene	16		0.59	0.94	3.8	ug/Kg
206-44-0	Fluoranthene	46		0.77	0.94	3.8	ug/Kg
129-00-0	Pyrene	38		0.59	0.94	3.8	ug/Kg
56-55-3	Benzo(a)anthracene	20		0.48	0.94	3.8	ug/Kg
218-01-9	Chrysene	36		0.48	0.94	3.8	ug/Kg
205-99-2	Benzo(b)fluoranthene	48		0.24	0.94	3.8	ug/Kg
207-08-9	Benzo(k)fluoranthene	15		0.44	0.94	3.8	ug/Kg
50-32-8	Benzo(a)pyrene	25		0.41	0.94	3.8	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	21		0.98	0.94	3.8	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1	U	1	0.94	3.8	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33		1.1	0.94	3.8	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.228		15-120		53	SPK: -8
93951-69-0	Fluoranthene-d10	0.329		30-130		82	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.266		20-140		67	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3546		7.288			
1146-65-2	Naphthalene-d8	10091		10.036			
15067-26-2	Acenaphthene-d10	6343		13.949			

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28Q1	SDG No.:	BN121224
Lab Sample ID:	P5153-14	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	12.5
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
BN035585.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	11429	16.717				
1719-03-5	Chrysene-d12	7962	20.973				
1520-96-3	Perylene-d12	8238	23.086				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.3	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28Q2	SDG No.:	BN121224
Lab Sample ID:	P5153-15	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	16.4
Sample Wt/Vol:	30.1	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
BN035586.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.3	U	1.3	0	8	ug/Kg
91-20-3	Naphthalene	12		0.44	0.98	3.9	ug/Kg
90-12-0	1-Methylnaphthalene	8		1	0.98	3.9	ug/Kg
91-57-6	2-Methylnaphthalene	11		0.41	0.98	3.9	ug/Kg
208-96-8	Acenaphthylene	8.7		0.56	0.98	3.9	ug/Kg
83-32-9	Acenaphthene	8.9		0.46	0.98	3.9	ug/Kg
86-73-7	Fluorene	10		0.81	0.98	3.9	ug/Kg
87-86-5	Pentachlorophenol	1.7	U	1.7	2	8	ug/Kg
85-01-8	Phenanthrene	130	E	0.61	0.98	3.9	ug/Kg
120-12-7	Anthracene	45		0.62	0.98	3.9	ug/Kg
206-44-0	Fluoranthene	170	E	0.81	0.98	3.9	ug/Kg
129-00-0	Pyrene	130	E	0.62	0.98	3.9	ug/Kg
56-55-3	Benzo(a)anthracene	73	E	0.5	0.98	3.9	ug/Kg
218-01-9	Chrysene	83	E	0.5	0.98	3.9	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	E	0.25	0.98	3.9	ug/Kg
207-08-9	Benzo(k)fluoranthene	38		0.46	0.98	3.9	ug/Kg
50-32-8	Benzo(a)pyrene	80	E	0.43	0.98	3.9	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	47		1	0.98	3.9	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	16		1.1	0.98	3.9	ug/Kg
191-24-2	Benzo(g,h,i)perylene	67	E	1.2	0.98	3.9	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.097		15-120		51	SPK: -8
93951-69-0	Fluoranthene-d10	0.291		30-130		73	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.261		20-140		65	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2178		7.293			
1146-65-2	Naphthalene-d8	6280		10.037			
15067-26-2	Acenaphthene-d10	3827		13.954			

Report of Analysis

Client:		Date Collected:	12/5/2024 12:00:00 AM
Project:		Date Received:	12/5/2024 12:00:00 AM
Client Sample ID:	E28Q2	SDG No.:	BN121224
Lab Sample ID:	P5153-15	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	16.4
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
BN035586.D	1	12/9/2024 12:00:00 AM	12/12/2024 12:00:00 AM	PB165482

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	7478	16.722				
1719-03-5	Chrysene-d12	6082	20.97				
1520-96-3	Perylene-d12	6460	23.063				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.3	U			99	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN121224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : E28P4DL								
P5153-06DL	E28P4DL	Solid	Total Alkanes	*	0.000	D 6.4	39	ug/Kg
			Total Tics :			0.00		
P5153-06DL	E28P4DL	Solid	1-Methylnaphthalene		5.800	JD 4.9	19	ug/Kg
P5153-06DL	E28P4DL	Solid	2-Methylnaphthalene		7.800	JD 2	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Acenaphthene		27.000	D 2.3	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Anthracene		56.000	D 3	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Benzo(a)anthracene		69.000	D 2.4	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Benzo(a)pyrene		63.000	D 2.1	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Benzo(b)fluoranthene		77.000	D 1.2	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Benzo(g,h,i)perylene		29.000	D 5.7	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Benzo(k)fluoranthene		31.000	D 2.3	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Chrysene		71.000	D 2.4	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Fluoranthene		220.000	D 4	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Fluorene		29.000	D 4	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Indeno(1,2,3-cd)pyrene		22.000	D 5	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Phenanthrene		200.000	D 3	19	ug/Kg
P5153-06DL	E28P4DL	Solid	Pyrene		160.000	D 3	19	ug/Kg
			Total Svoc :			1,067.60		
			Total Concentration:			1,067.60		
Client ID : E28P8								
P5153-11	E28P8	Solid	Total Alkanes	*	0.000	1.5	9.3	ug/Kg
			Total Tics :			0.00		
P5153-11	E28P8	Solid	1-Methylnaphthalene		4.600	1.2	4.6	ug/Kg
P5153-11	E28P8	Solid	2-Methylnaphthalene		6.900	0.47	4.6	ug/Kg
P5153-11	E28P8	Solid	Acenaphthene		0.920	J 0.54	4.6	ug/Kg
P5153-11	E28P8	Solid	Acenaphthylene		2.800	J 0.65	4.6	ug/Kg
P5153-11	E28P8	Solid	Anthracene		5.100	0.72	4.6	ug/Kg
P5153-11	E28P8	Solid	Benzo(a)anthracene		17.000	0.58	4.6	ug/Kg
P5153-11	E28P8	Solid	Benzo(a)pyrene		23.000	0.5	4.6	ug/Kg
P5153-11	E28P8	Solid	Benzo(b)fluoranthene		35.000	0.29	4.6	ug/Kg
P5153-11	E28P8	Solid	Benzo(g,h,i)perylene		20.000	1.4	4.6	ug/Kg
P5153-11	E28P8	Solid	Benzo(k)fluoranthene		11.000	0.54	4.6	ug/Kg
P5153-11	E28P8	Solid	Chrysene		25.000	0.58	4.6	ug/Kg
P5153-11	E28P8	Solid	Dibenzo(a,h)anthracene		4.200	J 1.2	4.6	ug/Kg
P5153-11	E28P8	Solid	Fluoranthene		41.000	0.94	4.6	ug/Kg
P5153-11	E28P8	Solid	Fluorene		1.400	J 0.94	4.6	ug/Kg
P5153-11	E28P8	Solid	Indeno(1,2,3-cd)pyrene		14.000	1.2	4.6	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN121224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5153-11	E28P8	Solid	Naphthalene	7.900		0.51	4.6	ug/Kg
P5153-11	E28P8	Solid	Phenanthrene	19.000		0.71	4.6	ug/Kg
P5153-11	E28P8	Solid	Pyrene	34.000		0.72	4.6	ug/Kg
Total Svoc :				272.82				
Total Concentration:				272.82				
Client ID : E28P9								
P5153-12	E28P9	Solid	Total Alkanes	*	0.000	1.3	8.2	ug/Kg
Total Tics :				0.00				
P5153-12	E28P9	Solid	1-Methylnaphthalene	12.000		1	4	ug/Kg
P5153-12	E28P9	Solid	2-Methylnaphthalene	19.000		0.42	4	ug/Kg
P5153-12	E28P9	Solid	Acenaphthene	2.300	J	0.48	4	ug/Kg
P5153-12	E28P9	Solid	Acenaphthylene	14.000		0.58	4	ug/Kg
P5153-12	E28P9	Solid	Anthracene	27.000		0.64	4	ug/Kg
P5153-12	E28P9	Solid	Benzo(a)anthracene	77.000	E	0.51	4	ug/Kg
P5153-12	E28P9	Solid	Benzo(a)pyrene	89.000	E	0.44	4	ug/Kg
P5153-12	E28P9	Solid	Benzo(b)fluoranthene	180.000	E	0.26	4	ug/Kg
P5153-12	E28P9	Solid	Benzo(g,h,i)perylene	110.000	E	1.2	4	ug/Kg
P5153-12	E28P9	Solid	Benzo(k)fluoranthene	46.000		0.48	4	ug/Kg
P5153-12	E28P9	Solid	Chrysene	130.000	E	0.51	4	ug/Kg
P5153-12	E28P9	Solid	Dibenzo(a,h)anthracene	29.000		1.1	4	ug/Kg
P5153-12	E28P9	Solid	Fluoranthene	130.000	E	0.83	4	ug/Kg
P5153-12	E28P9	Solid	Fluorene	6.100		0.83	4	ug/Kg
P5153-12	E28P9	Solid	Indeno(1,2,3-cd)pyrene	68.000	E	1.1	4	ug/Kg
P5153-12	E28P9	Solid	Naphthalene	34.000		0.45	4	ug/Kg
P5153-12	E28P9	Solid	Phenanthrene	84.000	E	0.62	4	ug/Kg
P5153-12	E28P9	Solid	Pyrene	100.000	E	0.64	4	ug/Kg
Total Svoc :				1,157.40				
Total Concentration:				1,157.40				
Client ID : E28Q0								
P5153-13	E28Q0	Solid	Total Alkanes	*	0.000	1.6	9.7	ug/Kg
Total Tics :				0.00				
P5153-13	E28Q0	Solid	1-Methylnaphthalene	15.000		1.2	4.8	ug/Kg
P5153-13	E28Q0	Solid	2-Methylnaphthalene	19.000		0.49	4.8	ug/Kg
P5153-13	E28Q0	Solid	Acenaphthene	1.200	J	0.56	4.8	ug/Kg
P5153-13	E28Q0	Solid	Acenaphthylene	12.000		0.68	4.8	ug/Kg
P5153-13	E28Q0	Solid	Anthracene	19.000		0.75	4.8	ug/Kg
P5153-13	E28Q0	Solid	Benzo(a)anthracene	330.000	E	0.61	4.8	ug/Kg
P5153-13	E28Q0	Solid	Benzo(a)pyrene	310.000	E	0.52	4.8	ug/Kg
P5153-13	E28Q0	Solid	Benzo(b)fluoranthene	440.000	E	0.3	4.8	ug/Kg
P5153-13	E28Q0	Solid	Benzo(g,h,i)perylene	190.000	E	1.4	4.8	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN121224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5153-13	E28Q0	Solid	Benzo(k)fluoranthene	130.000	E	0.56	4.8	ug/Kg
P5153-13	E28Q0	Solid	Chrysene	260.000	E	0.61	4.8	ug/Kg
P5153-13	E28Q0	Solid	Dibenzo(a,h)anthracene	56.000		1.3	4.8	ug/Kg
P5153-13	E28Q0	Solid	Fluoranthene	380.000	E	0.99	4.8	ug/Kg
P5153-13	E28Q0	Solid	Fluorene	4.100	J	0.99	4.8	ug/Kg
P5153-13	E28Q0	Solid	Indeno(1,2,3-cd)pyrene	170.000	E	1.2	4.8	ug/Kg
P5153-13	E28Q0	Solid	Naphthalene	17.000		0.54	4.8	ug/Kg
P5153-13	E28Q0	Solid	Phenanthrene	33.000		0.74	4.8	ug/Kg
P5153-13	E28Q0	Solid	Pyrene	350.000	E	0.75	4.8	ug/Kg

Total Svoc :

2,736.30

Total Concentration:

2,736.30

Client ID : E28Q1

P5153-14	E28Q1	Solid	Total Alkanes	*	0.000	1.3	7.6	ug/Kg
Total Tics :					0.00			
P5153-14	E28Q1	Solid	1-Methylnaphthalene		9.100	0.97	3.8	ug/Kg
P5153-14	E28Q1	Solid	2-Methylnaphthalene		15.000	0.39	3.8	ug/Kg
P5153-14	E28Q1	Solid	Acenaphthene		1.100	J 0.44	3.8	ug/Kg
P5153-14	E28Q1	Solid	Acenaphthylene		7.900	0.54	3.8	ug/Kg
P5153-14	E28Q1	Solid	Anthracene		16.000	0.59	3.8	ug/Kg
P5153-14	E28Q1	Solid	Benzo(a)anthracene		20.000	0.48	3.8	ug/Kg
P5153-14	E28Q1	Solid	Benzo(a)pyrene		25.000	0.41	3.8	ug/Kg
P5153-14	E28Q1	Solid	Benzo(b)fluoranthene		48.000	0.24	3.8	ug/Kg
P5153-14	E28Q1	Solid	Benzo(g,h,i)perylene		33.000	1.1	3.8	ug/Kg
P5153-14	E28Q1	Solid	Benzo(k)fluoranthene		15.000	0.44	3.8	ug/Kg
P5153-14	E28Q1	Solid	Chrysene		36.000	0.48	3.8	ug/Kg
P5153-14	E28Q1	Solid	Fluoranthene		46.000	0.77	3.8	ug/Kg
P5153-14	E28Q1	Solid	Fluorene		2.900	J 0.77	3.8	ug/Kg
P5153-14	E28Q1	Solid	Indeno(1,2,3-cd)pyrene		21.000	0.98	3.8	ug/Kg
P5153-14	E28Q1	Solid	Naphthalene		16.000	0.42	3.8	ug/Kg
P5153-14	E28Q1	Solid	Phenanthrene		33.000	0.58	3.8	ug/Kg
P5153-14	E28Q1	Solid	Pyrene		38.000	0.59	3.8	ug/Kg

Total Svoc :

383.00

Total Concentration:

383.00

Client ID : E28Q2

P5153-15	E28Q2	Solid	Total Alkanes	*	0.000	1.3	8	ug/Kg
Total Tics :					0.00			
P5153-15	E28Q2	Solid	1-Methylnaphthalene		8.000	1	3.9	ug/Kg
P5153-15	E28Q2	Solid	2-Methylnaphthalene		11.000	0.41	3.9	ug/Kg
P5153-15	E28Q2	Solid	Acenaphthene		8.900	0.46	3.9	ug/Kg
P5153-15	E28Q2	Solid	Acenaphthylene		8.700	0.56	3.9	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN121224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5153-15	E28Q2	Solid	Anthracene	45.000		0.62	3.9	ug/Kg
P5153-15	E28Q2	Solid	Benzo(a)anthracene	73.000	E	0.5	3.9	ug/Kg
P5153-15	E28Q2	Solid	Benzo(a)pyrene	80.000	E	0.43	3.9	ug/Kg
P5153-15	E28Q2	Solid	Benzo(b)fluoranthene	110.000	E	0.25	3.9	ug/Kg
P5153-15	E28Q2	Solid	Benzo(g,h,i)perylene	67.000	E	1.2	3.9	ug/Kg
P5153-15	E28Q2	Solid	Benzo(k)fluoranthene	38.000		0.46	3.9	ug/Kg
P5153-15	E28Q2	Solid	Chrysene	83.000	E	0.5	3.9	ug/Kg
P5153-15	E28Q2	Solid	Dibenzo(a,h)anthracene	16.000		1.1	3.9	ug/Kg
P5153-15	E28Q2	Solid	Fluoranthene	170.000	E	0.81	3.9	ug/Kg
P5153-15	E28Q2	Solid	Fluorene	10.000		0.81	3.9	ug/Kg
P5153-15	E28Q2	Solid	Indeno(1,2,3-cd)pyrene	47.000		1	3.9	ug/Kg
P5153-15	E28Q2	Solid	Naphthalene	12.000		0.44	3.9	ug/Kg
P5153-15	E28Q2	Solid	Phenanthrene	130.000	E	0.61	3.9	ug/Kg
P5153-15	E28Q2	Solid	Pyrene	130.000	E	0.62	3.9	ug/Kg
Total Svoc :						1,047.60		
Total Concentration:						1,047.60		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN111624 SAS No.: BN111624 SDG No.: BN111624
Instrument ID: _____ Calibration Date(s): 11/16/2024
Calibration Time(s): 12:26

LAB FILE ID:		RRFAL1 = BN035134.D			RRFAL2 = BN035135.D		RRFAL3 = BN035136.D	
		RRFAL4 = BN035137.D			RRFAL5 = BN035138.D		RRFAL6 = BN035139.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.425	0.424	0.381	0.380	0.374	0.397	6.4
1,4-Dioxane-d8		0.385	0.398	0.347	0.350	0.347	0.366	6.6
Naphthalene	1.030	1.015	1.057	0.976	0.961		1.008	3.9
1-Methylnaphthalene	0.723	0.695	0.740	0.684	0.685		0.705	3.5
2-Methylnaphthalene	0.705	0.695	0.737	0.680	0.677		0.699	3.5
Acenaphthylene	1.595	1.597	1.638	1.568	1.536		1.587	2.4
Acenaphthene	1.241	1.225	1.246	1.197	1.161		1.214	2.9
Fluorene	1.444	1.422	1.476	1.410	1.373		1.425	2.7
Pentachlorophenol		0.079	0.087	0.088	0.099	0.113	0.093	14.2
Phenanthrene	1.071	1.063	1.088	1.043	1.023		1.057	2.4
Anthracene	0.998	0.971	1.004	0.969	0.966		0.981	1.8
Fluoranthene	1.393	1.361	1.470	1.388	1.353		1.393	3.3
Pyrene	1.466	1.429	1.530	1.433	1.388		1.449	3.7
Benzo (a) anthracene	1.404	1.387	1.441	1.367	1.342		1.388	2.7
Chrysene	1.420	1.402	1.456	1.377	1.330		1.397	3.4
Benzo (b) fluoranthene	1.355	1.307	1.371	1.289	1.290		1.322	2.9
Benzo (k) fluoranthene	1.336	1.401	1.421	1.345	1.313		1.363	3.3
Benzo (a) pyrene	1.242	1.203	1.244	1.182	1.170		1.208	2.8
Indeno (1,2,3-cd) pyrene	1.631	1.626	1.714	1.609	1.579		1.632	3.1
Dibenzo (a,h) anthracene	1.270	1.273	1.348	1.264	1.241		1.279	3.2
Benzo (g,h,i) perylene	1.286	1.305	1.348	1.261	1.233		1.287	3.4
Fluoranthene-d10	1.120	1.083	1.165	1.089	1.060		1.104	3.7
2-Methylnaphthalene-d10	0.600	0.583	0.614	0.569	0.565		0.586	3.5

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.: BN121224 SAS No.: BN121224 SDG NO.: BN121224

EPA Sample No.: SSTD0.4225 Date Analyzed: Dec 12 2024 12:00AM

Lab File ID: BN035136.D Time Analyzed: 11:17

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	2538	7.55	5912	10.31	3911	14.19
UPPER LIMIT	5076	8.05	11824	10.812	7822	14.689
LOWER LIMIT	1269	7.05	2956	9.812	1955.5	13.689
EPA SAMPLE NO.						
01 SBLK482	3098	7.29	8139	10.03	5176	13.95
02 E28P4DL	3311	7.28	9459	10.03	6426	13.95
03 E28P8	2985	7.29	8354	10.03	5235	13.95
04 E28P9	2705	7.29	7246	10.03	4654	13.95
05 E28Q0	2970	7.29	8533	10.04	5329	13.95
06 E28Q1	3546	7.29	10091	10.04	6343	13.95
07 E28Q2	2178	7.29	6280	10.04	3827	13.95

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.: BN121224 SAS No.: BN121224 SDG NO.: BN121224

EPA Sample No.: SSTD0.4363 Date Analyzed: Dec 12 2024 12:00AM

Lab File ID: BN035579.D Time Analyzed: 11:17

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	2466	7.284	6679	10.03	4482	13.95
UPPER LIMIT	4932	7.784	13358	10.531	8964	14.449
LOWER LIMIT	1233	6.784	3339.5	9.531	2241	13.449
EPA SAMPLE NO.						
01 SBLK482	3098	7.29	8139	10.03	5176	13.95
02 E28P4DL	3311	7.28	9459	10.03	6426	13.95
03 E28P8	2985	7.29	8354	10.03	5235	13.95
04 E28P9	2705	7.29	7246	10.03	4654	13.95
05 E28Q0	2970	7.29	8533	10.04	5329	13.95
06 E28Q1	3546	7.29	10091	10.04	6343	13.95
07 E28Q2	2178	7.29	6280	10.04	3827	13.95

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.: BN121224 SAS No.: BN121224 SDG NO.: BN121224

EPA Sample No.: SSTD0.4225 Date Analyzed: Dec 12 2024 12:00AM

Lab File ID: BN035136.D Time Analyzed: 11:17

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	8422	16.941	7282	21.154	7906	23.331
UPPER LIMIT	16844	17.441	14564	21.654	15812	23.831
LOWER LIMIT	4211	16.441	3641	20.654	3953	22.831
EPA SAMPLE NO.						
01 SBLK482	10673	16.72	7546	20.96	7772	23.05
02 E28P4DL	13741	16.72	10688	20.96	9720	23.06
03 E28P8	10351	16.71	7033	20.96	7352	23.05
04 E28P9	9182	16.71	6707	20.97	7497	23.07
05 E28Q0	9947	16.72	7536	20.96	8814	23.05
06 E28Q1	11429	16.72	7962	20.97	8238	23.09
07 E28Q2	7478	16.72	6082	20.97	6460	23.06

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.: BN121224 SAS No.: BN121224 SDG NO.: BN121224

EPA Sample No.: SSTD0.4363 Date Analyzed: Dec 12 2024 12:00AM

Lab File ID: BN035579.D Time Analyzed: 11:17

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	9503	16.717	7359	20.964	7541	23.054
UPPER LIMIT	19006	17.217	14718	21.464	15082	23.554
LOWER LIMIT	4751.5	16.217	3679.5	20.464	3770.5	22.554
EPA SAMPLE NO.						
01 SBLK482	10673	16.72	7546	20.96	7772	23.05
02 E28P4DL	13741	16.72	10688	20.96	9720	23.06
03 E28P8	10351	16.71	7033	20.96	7352	23.05
04 E28P9	9182	16.71	6707	20.97	7497	23.07
05 E28Q0	9947	16.72	7536	20.96	8814	23.05
06 E28Q1	11429	16.72	7962	20.97	8238	23.09
07 E28Q2	7478	16.72	6082	20.97	6460	23.06

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.

SBLK482

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN121224

SAS No.: BN121224 SDG NO.: BN121224

Lab File ID: BN035580.D

Lab Sample ID: PB165482BL

Instrument ID: BNA_N

Date Extracted: 12/09/2024

Matrix: (soil/water) Solid

Date Analyzed: 12/12/2024

Level: (low/med) LOW

Time Analyzed: 11:17

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
E28P8	P5153-11	BN035582.D	12/12/2024
E28P9	P5153-12	BN035583.D	12/12/2024
E28Q0	P5153-13	BN035584.D	12/12/2024
E28Q1	P5153-14	BN035585.D	12/12/2024
E28Q2	P5153-15	BN035586.D	12/12/2024

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: BN121224

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P5153-06DL	E28P4DL	BN035581.D	1,4-Dioxane-d8	8	3.50	44		15	120
			Fluoranthene-d10	0.4	0.39	96		30	130
			2-Methylnaphthalene-d10	0.4	0.23	57		20	140
P5153-11	E28P8	BN035582.D	1,4-Dioxane-d8	8	3.41	43		15	120
			Fluoranthene-d10	0.4	0.18	45		30	130
			2-Methylnaphthalene-d10	0.4	0.18	45		20	140
P5153-12	E28P9	BN035583.D	1,4-Dioxane-d8	8	5.98	75		15	120
			Fluoranthene-d10	0.4	0.43	108		30	130
			2-Methylnaphthalene-d10	0.4	0.36	90		20	140
P5153-13	E28Q0	BN035584.D	1,4-Dioxane-d8	8	4.10	51		15	120
			Fluoranthene-d10	0.4	0.18	44		30	130
			2-Methylnaphthalene-d10	0.4	0.19	47		20	140
P5153-14	E28Q1	BN035585.D	1,4-Dioxane-d8	8	4.23	53		15	120
			Fluoranthene-d10	0.4	0.33	82		30	130
			2-Methylnaphthalene-d10	0.4	0.27	67		20	140
P5153-15	E28Q2	BN035586.D	1,4-Dioxane-d8	8	4.10	51		15	120
			Fluoranthene-d10	0.4	0.29	73		30	130
			2-Methylnaphthalene-d10	0.4	0.26	65		20	140
PB165482BL	PB165482BL	BN035580.D	1,4-Dioxane-d8	8	5.58	70		15	120
			Fluoranthene-d10	0.4	0.31	77		30	130
			2-Methylnaphthalene-d10	0.4	0.25	62		20	140

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN121224

Lab Code: CHEM

SAS No.: BN121224 SDG NO.: BN121224

Lab File ID: BN035578.D

DFTPP Injection Date: 12/12/2024

Instrument ID: BNA_N

DFTPP Injection Time: 09:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.3
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	40.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	29.8
365	Greater than 1% of mass 198	5
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	86
443	15.0 - 24.0% of mass 442	16 (18.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.4363	SSTDCCC0.4	BN035579.D	12/12/2024	10:41
SBLK482	PB165482BL	BN035580.D	12/12/2024	11:17
E28P4DL	P5153-06DL	BN035581.D	12/12/2024	12:54
E28P8	P5153-11	BN035582.D	12/12/2024	13:30
E28P9	P5153-12	BN035583.D	12/12/2024	14:06
E28Q0	P5153-13	BN035584.D	12/12/2024	14:42
E28Q1	P5153-14	BN035585.D	12/12/2024	15:18
E28Q2	P5153-15	BN035586.D	12/12/2024	15:54
SSTD0.4364	SSTDCCC0.4EC	BN035587.D	12/12/2024	16:46