



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM031224 SAS No.: BM031224 SDG No.: BM031224

Instrument ID: BNA_M Calibration Date/Time: 3/12/2024 1:09:29

Lab File ID: BM044584.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4052 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.536	0.486	0.010	-9.2066	40.0
1,4-Dioxane-d8	0.524	0.513	0.010	-2.0986	40.0
Naphthalene	1.125	1.088	0.600	-3.3597	30.0
1-Methylnaphthalene	0.719	0.706	0.300	-1.8462	30.0
2-Methylnaphthalene	0.712	0.698	0.300	-1.9804	30.0
Acenaphthylene	2.032	1.973	0.900	-2.9036	30.0
Acenaphthene	1.468	1.445	0.500	-1.563	30.0
Fluorene	1.677	1.664	0.700	-0.752	30.0
Pentachlorophenol	0.096	0.080	0.010	-17.4374	50.0
Phenanthrene	1.201	1.171	0.300	-2.5281	30.0
Anthracene	1.128	1.088	0.400	-3.4939	30.0
Fluoranthene	1.959	1.987	0.400	1.4784	30.0
Pyrene	2.007	2.017	0.500	0.5157	30.0
Benzo(a)anthracene	1.523	1.479	0.400	-2.8821	30.0
Chrysene	1.710	1.687	0.400	-1.3415	30.0
Benzo(b)fluoranthene	1.527	1.521	0.200	-0.376	30.0
Benzo(k)fluoranthene	1.654	1.619	0.200	-2.086	30.0
Benzo(a)pyrene	1.386	1.332	0.200	-3.9219	30.0
Indeno(1,2,3-cd)pyrene	1.595	1.512	0.200	-5.1893	30.0
Dibenzo(a,h)anthracene	1.230	1.143	0.200	-7.0839	30.0
Benzo(g,h,i)perylene	1.400	1.367	0.200	-2.34	30.0
Fluoranthene-d10	1.404	1.434	0.400	2.1687	30.0
2-Methylnaphthalene-d10	0.575	0.566	0.300	-1.4681	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.: BM031224 SAS No.: BM031224 SDG No.: BM031224

Instrument ID: BNA_M Calibration Date/Time: 3/12/2024 1:17:21

Lab File ID: BM044593.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4053 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.536	0.546	0.010	1.8094	50.0
1,4-Dioxane-d8	0.524	0.516	0.010	-1.5085	50.0
Naphthalene	1.125	1.085	0.600	-3.6144	50.0
1-Methylnaphthalene	0.719	0.709	0.300	-1.4667	50.0
2-Methylnaphthalene	0.712	0.701	0.300	-1.5321	50.0
Acenaphthylene	2.032	1.923	0.900	-5.3734	50.0
Acenaphthene	1.468	1.417	0.500	-3.4244	50.0
Fluorene	1.677	1.633	0.700	-2.5967	50.0
Pentachlorophenol	0.096	0.073	0.010	-24.3372	50.0
Phenanthrene	1.201	1.166	0.300	-2.9108	50.0
Anthracene	1.128	1.081	0.400	-4.1211	50.0
Fluoranthene	1.959	1.997	0.400	1.9761	50.0
Pyrene	2.007	2.046	0.500	1.9856	50.0
Benzo(a)anthracene	1.523	1.438	0.400	-5.5645	50.0
Chrysene	1.710	1.667	0.400	-2.5006	50.0
Benzo(b)fluoranthene	1.527	1.499	0.200	-1.8398	50.0
Benzo(k)fluoranthene	1.654	1.628	0.200	-1.5323	50.0
Benzo(a)pyrene	1.386	1.317	0.200	-5.041	50.0
Indeno(1,2,3-cd)pyrene	1.595	1.503	0.200	-5.7623	50.0
Dibenzo(a,h)anthracene	1.230	1.136	0.200	-7.6563	50.0
Benzo(g,h,i)perylene	1.400	1.350	0.200	-3.5727	50.0
Fluoranthene-d10	1.404	1.456	0.400	3.6741	50.0
2-Methylnaphthalene-d10	0.575	0.579	0.300	0.7172	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	3/5/2024 12:00:00 AM
Project:		Date Received:	3/5/2024 12:00:00 AM
Client Sample ID:	SBLK440	SDG No.:	BM031224
Lab Sample ID:	PB159440BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044585.D	1	3/5/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159440

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.681		15-120		85	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.368		30-130		92	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.307		30-130		77	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5761		7.724			
1146-65-2	Naphthalene-d8	18166		10.518			
15067-26-2	Acenaphthene-d10	10277		14.372			
1517-22-2	Phenanthrene-d10	23147		17.137			
1719-03-5	Chrysene-d12	14330		21.327			
1520-96-3	Perylene-d12	14082		23.586			



Report of Analysis

Client:		Date Collected:	3/5/2024 12:00:00 AM
Project:		Date Received:	3/5/2024 12:00:00 AM
Client Sample ID:	SBLK440	SDG No.:	BM031224
Lab Sample ID:	PB159440BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
			uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044585.D	1	3/5/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159440

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	2/26/2024 12:00:00 AM
Project:		Date Received:	2/26/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT1-2024-02	SDG No.:	BM031224
Lab Sample ID:	P1601-02	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044586.D	1	3/5/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159440

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.1	J	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.07	J	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.07	J	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.07	J	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.07	J	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.07	J	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.07	J	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.07	J	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.07	J	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.07	J	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.07	J	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.06	J	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.07	J	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.06	J	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.07	J	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.06	J	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.07	J	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.07	J	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.07	J	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.406		15-120		51	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.43		30-130		108	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.386		30-130		97	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5487		7.723			
1146-65-2	Naphthalene-d8	17695		10.512			
15067-26-2	Acenaphthene-d10	10179		14.368			
1517-22-2	Phenanthrene-d10	22967		17.124			
1719-03-5	Chrysene-d12	14111		21.321			
1520-96-3	Perylene-d12	14222		23.577			



Report of Analysis

Client:		Date Collected:	2/26/2024 12:00:00 AM
Project:		Date Received:	2/26/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT1-2024-02	SDG No.:	BM031224
Lab Sample ID:	P1601-02	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044586.D	1	3/5/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159440

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	2/26/2024 12:00:00 AM
Project:		Date Received:	2/26/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT1-2024-02	SDG No.:	BM031224
Lab Sample ID:	P1601-04	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
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
BM044587.D	1	3/6/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159473

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3	J	0.89	0	6.6	ug/Kg
91-20-3	Naphthalene	2.3	J	0.2	0.82	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	2.3	J	0.52	0.82	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	2.3	J	0.19	0.82	3.3	ug/Kg
208-96-8	Acenaphthylene	2.3	J	0.33	0.82	3.3	ug/Kg
83-32-9	Acenaphthene	2.3	J	0.18	0.82	3.3	ug/Kg
86-73-7	Fluorene	2.3	J	0.22	0.82	3.3	ug/Kg
87-86-5	Pentachlorophenol	2.1	J	2	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	2.2	J	0.18	0.82	3.3	ug/Kg
120-12-7	Anthracene	2.3	J	0.17	0.82	3.3	ug/Kg
206-44-0	Fluoranthene	2.4	J	0.18	0.82	3.3	ug/Kg
129-00-0	Pyrene	2.4	J	0.24	0.82	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	2	J	0.09	0.82	3.3	ug/Kg
218-01-9	Chrysene	2.5	J	0.25	0.82	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	2.2	J	0.47	0.82	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	2.3	J	0.32	0.82	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	2.3	J	0.32	0.82	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2.2	J	0.52	0.82	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2.1	J	0.47	0.82	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2.2	J	0.75	0.82	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.411		15-120		51	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.422		30-130		105	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.388		20-140		97	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5659		7.724			
1146-65-2	Naphthalene-d8	18772		10.512			
15067-26-2	Acenaphthene-d10	10857		14.367			
1517-22-2	Phenanthrene-d10	24364		17.128			
1719-03-5	Chrysene-d12	15042		21.324			
1520-96-3	Perylene-d12	14968		23.581			



Report of Analysis

Client:		Date Collected:	2/26/2024 12:00:00 AM
Project:		Date Received:	2/26/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT1-2024-02	SDG No.:	BM031224
Lab Sample ID:	P1601-04	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
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
BM044587.D	1	3/6/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159473

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	3/6/2024 12:00:00 AM
Project:		Date Received:	3/6/2024 12:00:00 AM
Client Sample ID:	SBLK473	SDG No.:	BM031224
Lab Sample ID:	PB159473BL	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
BM044588.D	1	3/6/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159473

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.89	U	0.89	0	6.6	ug/Kg
91-20-3	Naphthalene	0.2	U	0.2	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	0.52	U	0.52	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	0.33	U	0.33	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	0.18	U	0.18	0.83	3.3	ug/Kg
86-73-7	Fluorene	0.22	U	0.22	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	2	U	2	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	0.18	U	0.18	0.83	3.3	ug/Kg
120-12-7	Anthracene	0.17	U	0.17	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	0.18	U	0.18	0.83	3.3	ug/Kg
129-00-0	Pyrene	0.24	U	0.24	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	0.09	U	0.09	0.83	3.3	ug/Kg
218-01-9	Chrysene	0.25	U	0.25	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.47	U	0.47	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.32	U	0.32	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	0.32	U	0.32	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.52	U	0.52	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.47	U	0.47	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.75	U	0.75	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.623		15-120		78	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.337		30-130		84	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.311		20-140		78	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5773		7.724			
1146-65-2	Naphthalene-d8	18468		10.512			
15067-26-2	Acenaphthene-d10	10684		14.372			
1517-22-2	Phenanthrene-d10	24650		17.136			
1719-03-5	Chrysene-d12	15882		21.328			
1520-96-3	Perylene-d12	15992		23.584			



Report of Analysis

Client:		Date Collected:	3/6/2024 12:00:00 AM
Project:		Date Received:	3/6/2024 12:00:00 AM
Client Sample ID:	SBLK473	SDG No.:	BM031224
Lab Sample ID:	PB159473BL	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
BM044588.D	1	3/6/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159473

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	SP6446	SDG No.:	BM031224
Lab Sample ID:	SP6446	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000000 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
BM044589.D	1		3/12/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3600	E	29	0	200	ug/L
91-20-3	Naphthalene	710		4.3	50	100	ug/L
90-12-0	1-Methylnaphthalene	700		15	50	100	ug/L
91-57-6	2-Methylnaphthalene	730		5.3	50	100	ug/L
208-96-8	Acenaphthylene	710		12	50	100	ug/L
83-32-9	Acenaphthene	720		7.4	50	100	ug/L
86-73-7	Fluorene	730		6.7	50	100	ug/L
87-86-5	Pentachlorophenol	1400		63	100	200	ug/L
85-01-8	Phenanthrene	720		6.8	50	100	ug/L
120-12-7	Anthracene	720		8	50	100	ug/L
206-44-0	Fluoranthene	710		7.9	50	100	ug/L
129-00-0	Pyrene	710		6	50	100	ug/L
56-55-3	Benzo(a)anthracene	730		3.6	50	100	ug/L
218-01-9	Chrysene	700		7.7	50	100	ug/L
205-99-2	Benzo(b)fluoranthene	740		13	50	100	ug/L
207-08-9	Benzo(k)fluoranthene	720		9.8	50	100	ug/L
50-32-8	Benzo(a)pyrene	710		17	50	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	710		17	50	100	ug/L
53-70-3	Dibenzo(a,h)anthracene	700		14	50	100	ug/L
191-24-2	Benzo(g,h,i)perylene	710		22	50	100	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0	U	15-120		0	SPK: -8
93951-69-0	Fluoranthene-d10	0	U	30-130		0	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0	U	30-130		0	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5755		7.723			
1146-65-2	Naphthalene-d8	19082		10.501			
15067-26-2	Acenaphthene-d10	11080		14.362			
1517-22-2	Phenanthrene-d10	24961		17.119			
1719-03-5	Chrysene-d12	16726		21.313			
1520-96-3	Perylene-d12	15475		23.575			



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Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	SP6446	SDG No.:	BM031224
Lab Sample ID:	SP6446	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000000 uL
Extraction Type :		Test:	
Decanted :		Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044589.D	1		3/12/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	29	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/7/2024 12:00:00 AM
Project:		Date Received:	3/7/2024 12:00:00 AM
Client Sample ID:	BH7G7	SDG No.:	BM031224
Lab Sample ID:	P1703-01	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044590.D	1	3/7/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159506

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.58		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.625		15-120		58	SPK: -8
93951-69-0	Fluoranthene-d10	0.365		30-130		91	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.36		30-130		90	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6368	7.719				
1146-65-2	Naphthalene-d8	22540	10.501				
15067-26-2	Acenaphthene-d10	12296	14.362				
1517-22-2	Phenanthrene-d10	27732	17.115				
1719-03-5	Chrysene-d12	19347	21.319				
1520-96-3	Perylene-d12	15160	23.566				



Report of Analysis

Client:		Date Collected:	3/7/2024 12:00:00 AM
Project:		Date Received:	3/7/2024 12:00:00 AM
Client Sample ID:	BH7G7	SDG No.:	BM031224
Lab Sample ID:	P1703-01	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
			uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044590.D	1	3/7/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159506

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/7/2024 12:00:00 AM
Project:		Date Received:	3/7/2024 12:00:00 AM
Client Sample ID:	SBLK506	SDG No.:	BM031224
Lab Sample ID:	PB159506BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044591.D	1	3/7/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159506

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.93		15-120		74	SPK: -8
93951-69-0	Fluoranthene-d10	0.328		30-130		82	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.331		30-130		83	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5445	7.719				
1146-65-2	Naphthalene-d8	19187	10.501				
15067-26-2	Acenaphthene-d10	10649	14.363				
1517-22-2	Phenanthrene-d10	23780	17.116				
1719-03-5	Chrysene-d12	15785	21.321				
1520-96-3	Perylene-d12	12342	23.568				



Report of Analysis

Client:		Date Collected:	3/7/2024 12:00:00 AM
Project:		Date Received:	3/7/2024 12:00:00 AM
Client Sample ID:	SBLK506	SDG No.:	BM031224
Lab Sample ID:	PB159506BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000
			uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044591.D	1	3/7/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159506

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/7/2024 12:00:00 AM
Project:		Date Received:	3/7/2024 12:00:00 AM
Client Sample ID:	SLCS506	SDG No.:	BM031224
Lab Sample ID:	PB159506BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044592.D	1	3/7/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159506

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.6		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.31		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.32		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.31		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.3		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.31		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.31		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.62		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.31		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.31		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.34		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.34		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.32		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.34		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.33		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.35		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.33		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.33		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.32		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.34		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.607		15-120		76	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.357		30-130		89	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.326		30-130		81	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5322		7.724			
1146-65-2	Naphthalene-d8	17785		10.501			
15067-26-2	Acenaphthene-d10	10320		14.362			
1517-22-2	Phenanthrene-d10	22755		17.119			
1719-03-5	Chrysene-d12	13996		21.316			
1520-96-3	Perylene-d12	13074		23.575			



Report of Analysis

Client:		Date Collected:	3/7/2024 12:00:00 AM
Project:		Date Received:	3/7/2024 12:00:00 AM
Client Sample ID:	SLCS506	SDG No.:	BM031224
Lab Sample ID:	PB159506BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044592.D	1	3/7/2024 12:00:00 AM	3/12/2024 12:00:00 AM	PB159506

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Hit Summary Sheet SW-846

SDG No.: BM031224

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MDL-WATER-QT1-2024-02							
P1601-02	MDL-WATER-QT1-2024 Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
		Total Tics :			0.00		
P1601-02	MDL-WATER-QT1-2024 Water	1,4-Dioxane		0.100 J	0.029	0.2	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	1-Methylnaphthalene		0.070 J	0.015	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	2-Methylnaphthalene		0.070 J	0.0053	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Acenaphthene		0.070 J	0.0074	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Acenaphthylene		0.070 J	0.012	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Anthracene		0.070 J	0.008	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(a)anthracene		0.060 J	0.0036	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(a)pyrene		0.060 J	0.017	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(b)fluoranthene		0.060 J	0.013	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(g,h,i)perylene		0.070 J	0.022	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(k)fluoranthene		0.070 J	0.0098	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Chrysene		0.070 J	0.0077	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Dibenzo(a,h)anthracene		0.070 J	0.014	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Fluoranthene		0.070 J	0.0079	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Fluorene		0.070 J	0.0067	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Indeno(1,2,3-cd)pyrene		0.070 J	0.017	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Naphthalene		0.070 J	0.0043	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Phenanthrene		0.070 J	0.0068	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Pyrene		0.070 J	0.006	0.1	ug/L
		Total Svoc :			1.33		
		Total Concentration:			1.33		
Client ID : MDL-SOIL-QT1-2024-02							
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Total Alkanes	*	0.000	0.89	6.6	ug/Kg
		Total Tics :			0.00		
P1601-04	MDL-SOIL-QT1-2024-02 Solid	1,4-Dioxane		3.000 J	0.89	6.6	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	1-Methylnaphthalene		2.300 J	0.52	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	2-Methylnaphthalene		2.300 J	0.19	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Acenaphthene		2.300 J	0.18	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Acenaphthylene		2.300 J	0.33	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Anthracene		2.300 J	0.17	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Benzo(a)anthracene		2.000 J	0.09	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Benzo(a)pyrene		2.300 J	0.32	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Benzo(b)fluoranthene		2.200 J	0.47	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Benzo(g,h,i)perylene		2.200 J	0.75	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Benzo(k)fluoranthene		2.300 J	0.32	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Chrysene		2.500 J	0.25	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-02 Solid	Dibenzo(a,h)anthracene		2.100 J	0.47	3.3	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: BM031224

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Fluoranthene	2.400	J	0.18	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Fluorene	2.300	J	0.22	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Indeno(1,2,3-cd)pyrene	2.200	J	0.52	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Naphthalene	2.300	J	0.2	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Pentachlorophenol	2.100	J	2	6.7	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Phenanthrene	2.200	J	0.18	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Pyrene	2.400	J	0.24	3.3	ug/Kg
Total Svoc :				46.00				
Total Concentration:				46.00				
Client ID : BH7G7								
P1703-01	BH7G7	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
Total Tics :				0.00				
P1703-01	BH7G7	Water	1,4-Dioxane		0.580	0.029	0.2	ug/L
Total Svoc :				0.58				
Total Concentration:				0.58				
Client ID : SP6446								
SP6446	SP6446	Water	Total Alkanes	*	0.000	29	200	ug/L
Total Tics :				0.00				
SP6446	SP6446	Water	1,4-Dioxane		3,600.000	E 29	200	ug/L
SP6446	SP6446	Water	1-Methylnaphthalene		700.000	15	100	ug/L
SP6446	SP6446	Water	2-Methylnaphthalene		730.000	5.3	100	ug/L
SP6446	SP6446	Water	Acenaphthene		720.000	7.4	100	ug/L
SP6446	SP6446	Water	Acenaphthylene		710.000	12	100	ug/L
SP6446	SP6446	Water	Anthracene		720.000	8	100	ug/L
SP6446	SP6446	Water	Benzo(a)anthracene		730.000	3.6	100	ug/L
SP6446	SP6446	Water	Benzo(a)pyrene		710.000	17	100	ug/L
SP6446	SP6446	Water	Benzo(b)fluoranthene		740.000	13	100	ug/L
SP6446	SP6446	Water	Benzo(g,h,i)perylene		710.000	22	100	ug/L
SP6446	SP6446	Water	Benzo(k)fluoranthene		720.000	9.8	100	ug/L
SP6446	SP6446	Water	Chrysene		700.000	7.7	100	ug/L
SP6446	SP6446	Water	Dibenzo(a,h)anthracene		700.000	14	100	ug/L
SP6446	SP6446	Water	Fluoranthene		710.000	7.9	100	ug/L
SP6446	SP6446	Water	Fluorene		730.000	6.7	100	ug/L
SP6446	SP6446	Water	Indeno(1,2,3-cd)pyrene		710.000	17	100	ug/L
SP6446	SP6446	Water	Naphthalene		710.000	4.3	100	ug/L
SP6446	SP6446	Water	Pentachlorophenol		1,400.000	63	200	ug/L
SP6446	SP6446	Water	Phenanthrene		720.000	6.8	100	ug/L
SP6446	SP6446	Water	Pyrene		710.000	6	100	ug/L
Total Svoc :				17,880.00				
Total Concentration:				17,880.00				



Hit Summary Sheet
SW-846

SDG No.: BM031224

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031124

SAS No.: BM031124

SDG No.: BM031124

Instrument ID: _____

Calibration Date(s): 3/11/2024 : _____

Calibration Time(s): 10:30 _____

LAB FILE ID:		RRFAL1 = BM044571.D			RRFAL2 = BM044572.D		RRFAL3 = BM044573.D	
		RRFAL4 = BM044574.D			RRFAL5 = BM044575.D		RRFAL6 = BM044576.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.527	0.521	0.560	0.535	0.536	0.536	2.8
1,4-Dioxane-d8		0.553	0.527	0.525	0.511	0.505	0.524	3.6
Naphthalene	1.133	1.134	1.095	1.151	1.113		1.125	1.9
1-Methylnaphthalene	0.700	0.723	0.704	0.746	0.723		0.719	2.6
2-Methylnaphthalene	0.693	0.707	0.700	0.744	0.716		0.712	2.8
Acenaphthylene	2.058	2.060	1.965	2.049	2.029		2.032	1.9
Acenaphthene	1.490	1.493	1.431	1.490	1.435		1.468	2.2
Fluorene	1.667	1.696	1.651	1.717	1.655		1.677	1.7
Pentachlorophenol		0.088	0.078	0.096	0.101	0.119	0.096	15.9
Phenanthrene	1.189	1.195	1.168	1.245	1.207		1.201	2.4
Anthracene	1.103	1.124	1.093	1.180	1.139		1.128	3.0
Fluoranthene	1.946	1.960	1.986	1.973	1.929		1.959	1.1
Pyrene	2.050	2.026	2.018	2.008	1.930		2.007	2.3
Benzo(a)anthracene	1.456	1.477	1.457	1.616	1.607		1.523	5.4
Chrysene	1.798	1.761	1.700	1.697	1.595		1.710	4.5
Benzo(b)fluoranthene	1.502	1.484	1.492	1.589	1.566		1.527	3.1
Benzo(k)fluoranthene	1.732	1.664	1.616	1.703	1.553		1.654	4.3
Benzo(a)pyrene	1.423	1.390	1.316	1.415	1.388		1.386	3.1
Indeno(1,2,3-cd)pyrene	1.563	1.612	1.517	1.643	1.639		1.595	3.4
Dibenzo(a,h)anthracene	1.192	1.246	1.163	1.267	1.282		1.230	4.1
Benzo(g,h,i)perylene	1.423	1.434	1.370	1.402	1.370		1.400	2.1
Fluoranthene-d10	1.402	1.416	1.425	1.401	1.376		1.404	1.3
2-Methylnaphthalene-d10	0.553	0.574	0.568	0.596	0.583		0.575	2.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM031224 SAS No.: BM031224 SDG NO.: BM031224

EPA Sample No.: SSTD0.4017 Date Analyzed: Mar 12 2024 12:00AM

Lab File ID: BM044573.D Time Analyzed: 10:05

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	5865	7.724	19080	10.51	10924	14.37
UPPER LIMIT	11730	8.224	38160	11.007	21848	14.867
LOWER LIMIT	2932.5	7.224	9540	10.007	5462	13.867
EPA SAMPLE NO.						
01 SBLK440	5761	7.72	18166	10.52	10277	14.37
02 MDL-WATER-QT1-2024-02	5487	7.72	17695	10.51	10179	14.37
03 MDL-SOIL-QT1-2024-02	5659	7.72	18772	10.51	10857	14.37
04 SBLK473	5773	7.72	18468	10.51	10684	14.37
05 SP6446	5755	7.72	19082	10.50	11080	14.36
06 BH7G7	6368	7.72	22540	10.50	12296	14.36
07 SBLK506	5445	7.72	19187	10.50	10649	14.36
08 SLCS506	5322	7.72	17785	10.50	10320	14.36

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM031224 SAS No.: BM031224 SDG NO.: BM031224

EPA Sample No.: SSTD0.4052 Date Analyzed: Mar 12 2024 12:00AM

Lab File ID: BM044584.D Time Analyzed: 10:05

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	6251	7.724	20532	10.50	11622	14.36
UPPER LIMIT	12502	8.224	41064	11.001	23244	14.863
LOWER LIMIT	3125.5	7.224	10266	10.001	5811	13.863
EPA SAMPLE NO.						
01 SBLK440	5761	7.72	18166	10.52	10277	14.37
02 MDL-WATER-QT1-2024-02	5487	7.72	17695	10.51	10179	14.37
03 MDL-SOIL-QT1-2024-02	5659	7.72	18772	10.51	10857	14.37
04 SBLK473	5773	7.72	18468	10.51	10684	14.37
05 SP6446	5755	7.72	19082	10.50	11080	14.36
06 BH7G7	6368	7.72	22540	10.50	12296	14.36
07 SBLK506	5445	7.72	19187	10.50	10649	14.36
08 SLCS506	5322	7.72	17785	10.50	10320	14.36

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM031224 SAS No.: BM031224 SDG NO.: BM031224

EPA Sample No.: SSTD0.4017 Date Analyzed: Mar 12 2024 12:00AM

Lab File ID: BM044573.D Time Analyzed: 10:05

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	24518	17.119	15552	21.316	14990	23.575
UPPER LIMIT	49036	17.619	31104	21.816	29980	24.075
LOWER LIMIT	12259	16.619	7776	20.816	7495	23.075
EPA SAMPLE NO.						
01 SBLK440	23147	17.14	14330	21.33	14082	23.59
02 MDL-WATER-QT1-2024-02	22967	17.12	14111	21.32	14222	23.58
03 MDL-SOIL-QT1-2024-02	24364	17.13	15042	21.32	14968	23.58
04 SBLK473	24650	17.14	15882	21.33	15992	23.58
05 SP6446	24961	17.12	16726	21.31	15475	23.58
06 BH7G7	27732	17.12	19347	21.32	15160	23.57
07 SBLK506	23780	17.12	15785	21.32	12342	23.57
08 SLCS506	22755	17.12	13996	21.32	13074	23.58

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM031224 SAS No.: BM031224 SDG NO.: BM031224

EPA Sample No.: SSTD0.4052 Date Analyzed: Mar 12 2024 12:00AM

Lab File ID: BM044584.D Time Analyzed: 10:05

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	26048	17.12	16501	21.315	15774	23.574
UPPER LIMIT	52096	17.62	33002	21.815	31548	24.074
LOWER LIMIT	13024	16.62	8250.5	20.815	7887	23.074
EPA SAMPLE NO.						
01 SBLK440	23147	17.14	14330	21.33	14082	23.59
02 MDL-WATER-QT1-2024-02	22967	17.12	14111	21.32	14222	23.58
03 MDL-SOIL-QT1-2024-02	24364	17.13	15042	21.32	14968	23.58
04 SBLK473	24650	17.14	15882	21.33	15992	23.58
05 SP6446	24961	17.12	16726	21.31	15475	23.58
06 BH7G7	27732	17.12	19347	21.32	15160	23.57
07 SBLK506	23780	17.12	15785	21.32	12342	23.57
08 SLCS506	22755	17.12	13996	21.32	13074	23.58

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: BM031224

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB159506BS	1,4-Dioxane	2	1.6	ug/L	80				0	0	
	Naphthalene	0.4	0.31	ug/L	78				0	0	
	1-Methylnaphthalene	0.4	0.32	ug/L	80				0	0	
	2-Methylnaphthalene	0.4	0.31	ug/L	78				0	0	
	Acenaphthylene	0.4	0.3	ug/L	75				0	0	
	Acenaphthene	0.4	0.31	ug/L	78				0	0	
	Fluorene	0.4	0.31	ug/L	78				0	0	
	Pentachlorophenol	0.8	0.62	ug/L	78				0	0	
	Phenanthrene	0.4	0.31	ug/L	78				0	0	
	Anthracene	0.4	0.31	ug/L	78				0	0	
	Fluoranthene	0.4	0.34	ug/L	85				0	0	
	Pyrene	0.4	0.34	ug/L	85				0	0	
	Benzo(a)anthracene	0.4	0.32	ug/L	80				0	0	
	Chrysene	0.4	0.34	ug/L	85				0	0	
	Benzo(b)fluoranthene	0.4	0.33	ug/L	83				0	0	
	Benzo(k)fluoranthene	0.4	0.35	ug/L	88				0	0	
	Benzo(a)pyrene	0.4	0.33	ug/L	83				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0.33	ug/L	83				0	0	
	Dibenzo(a,h)anthracene	0.4	0.32	ug/L	80				0	0	
	Benzo(g,h,i)perylene	0.4	0.34	ug/L	85				0	0	



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SP6446

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031224SAS No.: BM031224 SDG NO.: BM031224Lab File ID: BM044589.DLab Sample ID: SP6446Instrument ID: BNA_M

Date Extracted: _____

Matrix: (soil/water) WaterDate Analyzed: 03/12/2024Level: (low/med) LOWTime Analyzed: 13:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SP6446	SP6446	BM044589.D	03/12/2024

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK440

Lab Name: CHEMTECH

Contract:

Lab Code: CHEM Case No.: BM031224

SAS No.: BM031224 SDG NO.: BM031224

Lab File ID: BM044585.D

Lab Sample ID: PB159440BL

Instrument ID: BNA_M

Date Extracted: 03/05/2024

Matrix: (soil/water) Water

Date Analyzed: 03/12/2024

Level: (low/med) LOW

Time Analyzed: 10:05

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-WATER-QT1-2024-02	P1601-02	BM044586.D	03/12/2024

COMMENTS:



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK473

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031224SAS No.: BM031224 SDG NO.: BM031224Lab File ID: BM044588.DLab Sample ID: PB159473BLInstrument ID: BNA_MDate Extracted: 03/06/2024Matrix: (soil/water) SolidDate Analyzed: 03/12/2024Level: (low/med) LOWTime Analyzed: 13:03

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-SOIL-QT1-2024-02	P1601-04	BM044587.D	03/12/2024

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK506

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM031224SAS No.: BM031224 SDG NO.: BM031224Lab File ID: BM044591.DLab Sample ID: PB159506BLInstrument ID: BNA_MDate Extracted: 03/07/2024Matrix: (soil/water) WaterDate Analyzed: 03/12/2024Level: (low/med) LOWTime Analyzed: 15:31

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB159506BS	PB159506BS	BM044592.D	03/12/2024
BH7G7	P1703-01	BM044590.D	03/12/2024

COMMENTS: _____



Surrogate Summary
SW-846

SDG No.: BM031224

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SP6446	SP6446	BM044589.D	1,4-Dioxane-d8	8	0.00	0	*	15	120
			Fluoranthene-d10	0.4	0.00	0	*	30	130
			2-Methylnaphthalene-d10	0.4	0.00	0	*	30	130



Surrogate Summary
SW-846

SDG No.: BM031224

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1601-02	MDL-WATER-QT1	BM044586.D	1,4-Dioxane-d8	0.8	0.41	51		15	120
			Fluoranthene-d10	0.4	0.43	108		30	130
			2-Methylnaphthalene-d10	0.4	0.39	97		30	130
PB159440BL	PB159440BL	BM044585.D	1,4-Dioxane-d8	0.8	0.68	85		15	120
			Fluoranthene-d10	0.4	0.37	92		30	130
			2-Methylnaphthalene-d10	0.4	0.31	77		30	130



Surrogate Summary
SW-846

SDG No.: BM031224

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1601-04	MDL-SOIL-QT1-2(BM044587.D		1,4-Dioxane-d8	0.8	0.41	51		15	120
			Fluoranthene-d10	0.4	0.42	105		30	130
			2-Methylnaphthalene-d10	0.4	0.39	97		20	140
PB159473BL	PB159473BL	BM044588.D	1,4-Dioxane-d8	0.8	0.62	78		15	120
			Fluoranthene-d10	0.4	0.34	84		30	130
			2-Methylnaphthalene-d10	0.4	0.31	78		20	140



Surrogate Summary
SW-846

SDG No.: BM031224

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1703-01	BH7G7	BM044590.D	1,4-Dioxane-d8	8	4.63	58		15	120
			Fluoranthene-d10	0.4	0.37	91		30	130
			2-Methylnaphthalene-d10	0.4	0.36	90		30	130
PB159506BL	PB159506BL	BM044591.D	1,4-Dioxane-d8	8	5.93	74		15	120
			Fluoranthene-d10	0.4	0.33	82		30	130
			2-Methylnaphthalene-d10	0.4	0.33	83		30	130
PB159506BS	PB159506BS	BM044592.D	1,4-Dioxane-d8	0.8	0.61	76		15	120
			Fluoranthene-d10	0.4	0.36	89		30	130
			2-Methylnaphthalene-d10	0.4	0.33	81		30	130



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BM031224Lab Code: CHEMSAS No.: BM031224 SDG NO.: BM031224Lab File ID: BM044583.DDFTPP Injection Date: 03/12/2024Instrument ID: BNA_MDFTPP Injection Time: 08:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.1
68	Less than 2.0% of mass 69	0.7 (1.6) 1
69	Mass 69 relative abundance	42.3
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	50.9
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	23.1
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	11.6
442	Greater than 50% of mass 198	73.2
443	15.0 - 24.0% of mass 442	14.1 (19.3) 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
SSTD0.4052	SSTDCCC0.4	BM044584.D	03/12/2024	09:29
SBLK440	PB159440BL	BM044585.D	03/12/2024	10:05
MDL-WATER-QT1-2024-02	P1601-02	BM044586.D	03/12/2024	10:42
MDL-SOIL-QT1-2024-02	P1601-04	BM044587.D	03/12/2024	11:50
SBLK473	PB159473BL	BM044588.D	03/12/2024	13:03
SP6446	SP6446	BM044589.D	03/12/2024	13:41
BH7G7	P1703-01	BM044590.D	03/12/2024	14:18
SBLK506	PB159506BL	BM044591.D	03/12/2024	15:31
SLCS506	PB159506BS	BM044592.D	03/12/2024	16:44
SSTD0.4053	SSTDCCC0.4EC	BM044593.D	03/12/2024	17:21