

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM053024 SAS No.: BM053024 SDG No.: BM053024
Instrument ID: BNA_M Calibration Date/Time: 5/30/2024 1:09:28
Lab File ID: BM045782.D Init. Calib. Date(s): _____
EPA Sample No.: SSTD0.4114 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.499	0.444	0.010	-10.9112	40.0
1,4-Dioxane-d8	0.517	0.461	0.010	-10.7795	40.0
Naphthalene	1.042	0.982	0.600	-5.7478	30.0
1-Methylnaphthalene	0.685	0.632	0.300	-7.7772	30.0
2-Methylnaphthalene	0.650	0.599	0.300	-7.7672	30.0
Acenaphthylene	1.846	1.742	0.900	-5.6513	30.0
Acenaphthene	1.338	1.258	0.500	-5.9399	30.0
Fluorene	1.486	1.379	0.700	-7.1842	30.0
Pentachlorophenol	0.021	0.013	0.010	-36.7553	50.0
Phenanthrene	1.128	1.042	0.300	-7.5907	30.0
Anthracene	1.044	0.966	0.400	-7.5186	30.0
Fluoranthene	1.851	1.802	0.400	-2.644	30.0
Pyrene	1.911	1.825	0.500	-4.4879	30.0
Benzo (a) anthracene	1.547	1.391	0.400	-10.1042	30.0
Chrysene	1.596	1.507	0.400	-5.5854	30.0
Benzo (b) fluoranthene	1.464	1.374	0.200	-6.1416	30.0
Benzo (k) fluoranthene	1.457	1.411	0.200	-3.1263	30.0
Benzo (a) pyrene	1.239	1.208	0.200	-2.5089	30.0
Indeno (1,2,3-cd) pyrene	1.381	1.207	0.200	-12.5518	30.0
Dibenzo (a,h) anthracene	1.010	0.861	0.200	-14.6834	30.0
Benzo (g,h,i) perylene	1.374	1.230	0.200	-10.4507	30.0
Fluoranthene-d10	1.380	1.322	0.400	-4.2609	30.0
2-Methylnaphthalene-d10	0.553	0.511	0.300	-7.5859	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.: BM053024 SAS No.: BM053024 SDG No.: BM053024
Instrument ID: BNA_M Calibration Date/Time: 5/30/2024 1:13:57
Lab File ID: BM045787.D Init. Calib. Date(s): _____
EPA Sample No.: SSTD0.4115 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.499	0.486	0.010	-2.4657	50.0
1,4-Dioxane-d8	0.517	0.491	0.010	-5.1235	50.0
Naphthalene	1.042	0.991	0.600	-4.9042	50.0
1-Methylnaphthalene	0.685	0.634	0.300	-7.4676	50.0
2-Methylnaphthalene	0.650	0.600	0.300	-7.6917	50.0
Acenaphthylene	1.846	1.734	0.900	-6.0592	50.0
Acenaphthene	1.338	1.258	0.500	-5.9212	50.0
Fluorene	1.486	1.375	0.700	-7.4376	50.0
Pentachlorophenol	0.021	0.015	0.010	-25.9529	50.0
Phenanthrene	1.128	1.046	0.300	-7.2453	50.0
Anthracene	1.044	0.967	0.400	-7.3677	50.0
Fluoranthene	1.851	1.793	0.400	-3.1717	50.0
Pyrene	1.911	1.823	0.500	-4.604	50.0
Benzo (a) anthracene	1.547	1.380	0.400	-10.7917	50.0
Chrysene	1.596	1.508	0.400	-5.5569	50.0
Benzo (b) fluoranthene	1.464	1.341	0.200	-8.4267	50.0
Benzo (k) fluoranthene	1.457	1.401	0.200	-3.8755	50.0
Benzo (a) pyrene	1.239	1.176	0.200	-5.1075	50.0
Indeno (1,2,3-cd) pyrene	1.381	1.208	0.200	-12.4861	50.0
Dibenzo (a,h) anthracene	1.010	0.859	0.200	-14.9196	50.0
Benzo (g,h,i) perylene	1.374	1.209	0.200	-11.9703	50.0
Fluoranthene-d10	1.380	1.317	0.400	-4.5662	50.0
2-Methylnaphthalene-d10	0.553	0.511	0.300	-7.6264	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	5/14/2024 12:00:00 AM
Project:		Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	SBLK909	SDG No.:	BM053024
Lab Sample ID:	PB160909BL	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
BM045783.D	1	5/14/2024 12:00:00 AM	5/30/2024 12:00:00 AM	PB160909

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	0.499		15-120		62	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.302		30-130		75	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.286		30-130		72	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7505	7.485				
1146-65-2	Naphthalene-d8	21989	10.26				
15067-26-2	Acenaphthene-d10	11375	14.127				

Report of Analysis

Client:		Date Collected:	5/14/2024 12:00:00 AM
Project:		Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	SBLK909	SDG No.:	BM053024
Lab Sample ID:	PB160909BL	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
BM045783.D	1	5/14/2024 12:00:00 AM	5/30/2024 12:00:00 AM	PB160909

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	22520	16.871				
1719-03-5	Chrysene-d12	14222	21.058				
1520-96-3	Perylene-d12	15622	23.171				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	5/7/2024 12:00:00 AM
Project:		Date Received:	5/7/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT2-2024-04	SDG No.:	BM053024
Lab Sample ID:	P2409-02	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
BM045784.D	1	5/14/2024 12:00:00 AM	5/30/2024 12:00:00 AM	PB160909

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.06	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	0.06	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	0.08	J	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	0.06	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	0.06	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	0.07	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	0.357		15-120		45	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.38		30-130		95	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.364		30-130		91	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6963	7.481				
1146-65-2	Naphthalene-d8	21235	10.259				
15067-26-2	Acenaphthene-d10	10963	14.126				

Report of Analysis

Client:		Date Collected:	5/7/2024 12:00:00 AM
Project:		Date Received:	5/7/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT2-2024-04	SDG No.:	BM053024
Lab Sample ID:	P2409-02	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
BM045784.D	1	5/14/2024 12:00:00 AM	5/30/2024 12:00:00 AM	PB160909

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	22116	16.87				
1719-03-5	Chrysene-d12	14039	21.059				
1520-96-3	Perylene-d12	15671	23.172				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	5/7/2024 12:00:00 AM
Project:		Date Received:	5/7/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT2-2024-04	SDG No.:	BM053024
Lab Sample ID:	P2409-04	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
BM045785.D	1	5/14/2024 12:00:00 AM	5/30/2024 12:00:00 AM	PB160912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.4	J	0.89	0	6.7	ug/Kg
91-20-3	Naphthalene	2.3	J	0.2	0.82	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	2.2	J	0.52	0.82	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	2.2	J	0.19	0.82	3.3	ug/Kg
208-96-8	Acenaphthylene	2.1	J	0.33	0.82	3.3	ug/Kg
83-32-9	Acenaphthene	2.2	J	0.18	0.82	3.3	ug/Kg
86-73-7	Fluorene	2.1	J	0.22	0.82	3.3	ug/Kg
87-86-5	Pentachlorophenol	2.7	J	2	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	2.1	J	0.18	0.82	3.3	ug/Kg
120-12-7	Anthracene	1.9	J	0.17	0.82	3.3	ug/Kg
206-44-0	Fluoranthene	2.3	J	0.18	0.82	3.3	ug/Kg
129-00-0	Pyrene	2.2	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	J	0.25	0.82	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	2.1	J	0.47	0.82	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	2.2	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	2.1	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	0.385		15-120		48	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.417		30-130		104	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.389		20-140		97	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6778	7.481				
1146-65-2	Naphthalene-d8	20090	10.254				
15067-26-2	Acenaphthene-d10	10383	14.126				

Report of Analysis

Client:		Date Collected:	5/7/2024 12:00:00 AM
Project:		Date Received:	5/7/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT2-2024-04	SDG No.:	BM053024
Lab Sample ID:	P2409-04	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
BM045785.D	1	5/14/2024 12:00:00 AM	5/30/2024 12:00:00 AM	PB160912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	20202	16.87				
1719-03-5	Chrysene-d12	11894	21.062				
1520-96-3	Perylene-d12	12724	23.177				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	5/14/2024 12:00:00 AM
Project:		Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	SBLK912	SDG No.:	BM053024
Lab Sample ID:	PB160912BL	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
BM045786.D	1	5/14/2024 12:00:00 AM	5/30/2024 12:00:00 AM	PB160912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.89	U	0.89	0	6.7	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	0.519		15-120		65	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.314		30-130		79	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.295		20-140		74	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6786	7.48				
1146-65-2	Naphthalene-d8	20172	10.255				
15067-26-2	Acenaphthene-d10	10356	14.127				

Report of Analysis

Client:		Date Collected:	5/14/2024 12:00:00 AM
Project:		Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	SBLK912	SDG No.:	BM053024
Lab Sample ID:	PB160912BL	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
BM045786.D	1	5/14/2024 12:00:00 AM	5/30/2024 12:00:00 AM	PB160912

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	20312	16.871				
1719-03-5	Chrysene-d12	12692	21.061				
1520-96-3	Perylene-d12	13934	23.171				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM053024

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MDL-WATER-QT2-2024-04							
P2409-02	MDL-WATER-QT2-2024 Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
		Total Tics :			0.00		
P2409-02	MDL-WATER-QT2-2024 Water	1,4-Dioxane		0.060 J	0.029	0.2	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	1-Methylnaphthalene		0.060 J	0.015	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	2-Methylnaphthalene		0.070 J	0.0053	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Acenaphthene		0.070 J	0.0074	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Acenaphthylene		0.070 J	0.012	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Anthracene		0.060 J	0.008	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(a)anthracene		0.060 J	0.0036	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(a)pyrene		0.070 J	0.017	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(b)fluoranthene		0.060 J	0.013	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(g,h,i)perylene		0.070 J	0.022	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Benzo(k)fluoranthene		0.070 J	0.0098	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Chrysene		0.060 J	0.0077	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Dibenzo(a,h)anthracene		0.070 J	0.014	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Fluoranthene		0.070 J	0.0079	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Fluorene		0.070 J	0.0067	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Indeno(1,2,3-cd)pyrene		0.070 J	0.017	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Naphthalene		0.070 J	0.0043	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Pentachlorophenol		0.080 J	0.063	0.2	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Phenanthrene		0.070 J	0.0068	0.1	ug/L
P2409-02	MDL-WATER-QT2-2024 Water	Pyrene		0.070 J	0.006	0.1	ug/L
		Total Svoc :			1.35		
		Total Concentration:			1.35		
Client ID : MDL-SOIL-QT2-2024-04							
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	Total Alkanes	*	0.000	0.89	6.7	ug/Kg
		Total Tics :			0.00		
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	1,4-Dioxane		2.400 J	0.89	6.7	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	1-Methylnaphthalene		2.200 J	0.52	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	2-Methylnaphthalene		2.200 J	0.19	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	Acenaphthene		2.200 J	0.18	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	Acenaphthylene		2.100 J	0.33	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	Anthracene		1.900 J	0.17	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	Benzo(a)anthracene		2.000 J	0.09	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	Benzo(a)pyrene		2.300 J	0.32	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	Benzo(b)fluoranthene		2.100 J	0.47	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0 ₄ Solid	Benzo(g,h,i)perylene		2.200 J	0.75	3.3	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM053024

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Benzo(k)fluoranthene	2.200	J	0.32	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Chrysene	2.000	J	0.25	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Dibenzo(a,h)anthracene	2.100	J	0.47	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Fluoranthene	2.300	J	0.18	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Fluorene	2.100	J	0.22	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Indeno(1,2,3-cd)pyrene	2.100	J	0.52	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Naphthalene	2.300	J	0.2	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Pentachlorophenol	2.700	J	2	6.7	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Phenanthrene	2.100	J	0.18	3.3	ug/Kg
P2409-04	MDL-SOIL-QT2-2024-0	Solid	Pyrene	2.200	J	0.24	3.3	ug/Kg
Total Svoc :				43.70				
Total Concentration:				43.70				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM052824 SAS No.: BM052824 SDG No.: BM052824
Instrument ID: _____ Calibration Date(s): 5/28/2024 : _____
Calibration Time(s): 19:13 _____

LAB FILE ID:		RRFAL1 = BM045767.D			RRFAL2 = BM045768.D		RRFAL3 = BM045769.D	
		RRFAL4 = BM045770.D			RRFAL5 = BM045771.D		RRFAL6 = BM045772.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.508	0.476	0.500	0.506	0.503	0.499	2.6
1,4-Dioxane-d8		0.576	0.486	0.522	0.502	0.500	0.517	6.8
Naphthalene	1.082	1.064	0.979	1.057	1.026		1.042	3.9
1-Methylnaphthalene	0.719	0.695	0.639	0.695	0.678		0.685	4.4
2-Methylnaphthalene	0.675	0.662	0.602	0.663	0.645		0.650	4.4
Acenaphthylene	1.897	1.868	1.733	1.885	1.849		1.846	3.6
Acenaphthene	1.381	1.375	1.252	1.359	1.321		1.338	4.0
Fluorene	1.517	1.521	1.376	1.524	1.490		1.486	4.2
Pentachlorophenol		0.018	0.020	0.019	0.021	0.025	0.021	13.0
Phenanthrene	1.181	1.148	1.044	1.148	1.119		1.128	4.6
Anthracene	1.044	1.059	0.974	1.081	1.064		1.044	4.0
Fluoranthene	1.954	1.889	1.704	1.864	1.846		1.851	5.0
Pyrene	2.045	1.945	1.750	1.918	1.896		1.911	5.6
Benzo(a)anthracene	1.613	1.547	1.415	1.575	1.587		1.547	5.0
Chrysene	1.617	1.653	1.491	1.634	1.585		1.596	4.0
Benzo(b)fluoranthene	1.526	1.524	1.335	1.473	1.463		1.464	5.3
Benzo(k)fluoranthene	1.527	1.473	1.340	1.496	1.448		1.457	4.9
Benzo(a)pyrene	1.268	1.262	1.163	1.255	1.249		1.239	3.5
Indeno(1,2,3-cd)pyrene	1.607	1.414	1.212	1.336	1.334		1.381	10.5
Dibenzo(a,h)anthracene	1.172	1.029	0.890	0.977	0.979		1.010	10.3
Benzo(g,h,i)perylene	1.612	1.423	1.221	1.317	1.295		1.374	11.0
Fluoranthene-d10	1.453	1.420	1.265	1.394	1.370		1.380	5.2
2-Methylnaphthalene-d10	0.584	0.557	0.515	0.563	0.547		0.553	4.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM053024 SAS No.: BM053024 SDG NO.: BM053024

EPA Sample No.: SSTD0.4003 Date Analyzed: May 30 2024 12:00AM

Lab File ID: BM045769.D Time Analyzed: 10:04

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	8155	7.489	23967	10.26	12027	14.13
UPPER LIMIT	16310	7.989	47934	10.76	24054	14.632
LOWER LIMIT	4077.5	6.989	11983.5	9.76	6013.5	13.632
EPA SAMPLE NO.						
01 SBLK909	7505	7.49	21989	10.26	11375	14.13
02 MDL-WATER-QT2-2024-04	6963	7.48	21235	10.26	10963	14.13
03 MDL-SOIL-QT2-2024-04	6778	7.48	20090	10.25	10383	14.13
04 SBLK912	6786	7.48	20172	10.26	10356	14.13

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.



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM053024 SAS No.: BM053024 SDG NO.: BM053024

EPA Sample No.: SSTD0.4114 Date Analyzed: May 30 2024 12:00AM

Lab File ID: BM045782.D Time Analyzed: 10:04

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	6868	7.485	20537	10.25	10204	14.13
UPPER LIMIT	13736	7.985	41074	10.753	20408	14.626
LOWER LIMIT	3434	6.985	10268.5	9.753	5102	13.626
EPA SAMPLE NO.						
01 SBLK909	7505	7.49	21989	10.26	11375	14.13
02 MDL-WATER-QT2-2024-04	6963	7.48	21235	10.26	10963	14.13
03 MDL-SOIL-QT2-2024-04	6778	7.48	20090	10.25	10383	14.13
04 SBLK912	6786	7.48	20172	10.26	10356	14.13

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.: BM053024 SAS No.: BM053024 SDG NO.: BM053024

EPA Sample No.: SSTD0.4003 Date Analyzed: May 30 2024 12:00AM

Lab File ID: BM045769.D Time Analyzed: 10:04

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	23729	16.875	15785	21.061	17227	23.177
UPPER LIMIT	47458	17.375	31570	21.561	34454	23.677
LOWER LIMIT	11864.5	16.375	7892.5	20.561	8613.5	22.677
EPA SAMPLE NO.						
01 SBLK909	22520	16.87	14222	21.06	15622	23.17
02 MDL-WATER-QT2-2024-04	22116	16.87	14039	21.06	15671	23.17
03 MDL-SOIL-QT2-2024-04	20202	16.87	11894	21.06	12724	23.18
04 SBLK912	20312	16.87	12692	21.06	13934	23.17

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.: BM053024 SAS No.: BM053024 SDG NO.: BM053024

EPA Sample No.: SSTD0.4114 Date Analyzed: May 30 2024 12:00AM

Lab File ID: BM045782.D Time Analyzed: 10:04

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	20189	16.87	12564	21.056	13566	23.168
UPPER LIMIT	40378	17.37	25128	21.556	27132	23.668
LOWER LIMIT	10094.5	16.37	6282	20.556	6783	22.668
EPA SAMPLE NO.						
01 SBLK909	22520	16.87	14222	21.06	15622	23.17
02 MDL-WATER-QT2-2024-04	22116	16.87	14039	21.06	15671	23.17
03 MDL-SOIL-QT2-2024-04	20202	16.87	11894	21.06	12724	23.18
04 SBLK912	20312	16.87	12692	21.06	13934	23.17

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.

SBLK909

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM053024

SAS No.: BM053024 SDG NO.: BM053024

Lab File ID: BM045783.D

Lab Sample ID: PB160909BL

Instrument ID: BNA_M

Date Extracted: 05/14/2024

Matrix: (soil/water) Water

Date Analyzed: 05/30/2024

Level: (low/med) LOW

Time Analyzed: 10:04

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-WATER-QT2-2024-04	P2409-02	BM045784.D	05/30/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK912

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM053024

SAS No.: BM053024 SDG NO.: BM053024

Lab File ID: BM045786.D

Lab Sample ID: PB160912BL

Instrument ID: BNA_M

Date Extracted: 05/14/2024

Matrix: (soil/water) Solid

Date Analyzed: 05/30/2024

Level: (low/med) LOW

Time Analyzed: 13:16

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-SOIL-QT2-2024-04	P2409-04	BM045785.D	05/30/2024

COMMENTS: _____



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Surrogate Summary

SW-846

SDG No.: BM053024

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P2409-02	MDL-WATER-QT2BM045784.D		1,4-Dioxane-d8	0.8	0.36	45		15	120
			Fluoranthene-d10	0.4	0.38	95		30	130
			2-Methylnaphthalene-d10	0.4	0.36	91		30	130
PB160909BL	PB160909BL	BM045783.D	1,4-Dioxane-d8	0.8	0.50	62		15	120
			Fluoranthene-d10	0.4	0.30	75		30	130
			2-Methylnaphthalene-d10	0.4	0.29	72		30	130



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Surrogate Summary

SW-846

SDG No.: BM053024

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
P2409-04	MDL-SOIL-QT2-2(BM045785.D		1,4-Dioxane-d8	0.8	0.39	48		15	120
			Fluoranthene-d10	0.4	0.42	104		30	130
			2-Methylnaphthalene-d10	0.4	0.39	97		20	140
PB160912BL	PB160912BL	BM045786.D	1,4-Dioxane-d8	0.8	0.52	65		15	120
			Fluoranthene-d10	0.4	0.31	79		30	130
			2-Methylnaphthalene-d10	0.4	0.30	74		20	140

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM053024

Lab Code: CHEM

SAS No.: BM053024

SDG NO.: BM053024

Lab File ID: BM045781.D

DFTPP Injection Date: 05/30/2024

Instrument ID: BNA_M

DFTPP Injection Time: 08:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	57.6
68	Less than 2.0% of mass 69	0.8 (1.6) 1
69	Mass 69 relative abundance	50.7
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	52.2
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	9.1
442	Greater than 50% of mass 198	56.4
443	15.0 - 24.0% of mass 442	10.8 (19.1) 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
SSTD0.4114	SSTDCCC0.4	BM045782.D	05/30/2024	09:28
SBLK909	PB160909BL	BM045783.D	05/30/2024	10:04
MDL-WATER-QT2-2024-04	P2409-02	BM045784.D	05/30/2024	10:40
MDL-SOIL-QT2-2024-04	P2409-04	BM045785.D	05/30/2024	12:31
SBLK912	PB160912BL	BM045786.D	05/30/2024	13:16
SSTD0.4115	SSTDCCC0.4EC	BM045787.D	05/30/2024	13:57