

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM052924 SAS No.: BM052924 SDG No.: BM052924

Instrument ID: BNA_M Calibration Date/Time: 5/29/2024 1:09:08

Lab File ID: BM045775.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4112 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	0.493	0.010	-1.1168	40.0
1,4-Dioxane-d8	0.517	0.466	0.010	-9.9244	40.0
Naphthalene	1.042	0.978	0.600	-6.1102	30.0
1-Methylnaphthalene	0.685	0.637	0.300	-7.0221	30.0
2-Methylnaphthalene	0.650	0.603	0.300	-7.2274	30.0
Acenaphthylene	1.846	1.741	0.900	-5.6879	30.0
Acenaphthene	1.338	1.265	0.500	-5.4683	30.0
Fluorene	1.486	1.376	0.700	-7.4066	30.0
Pentachlorophenol	0.021	0.012	0.010	-40.6799	50.0
Phenanthrene	1.128	1.040	0.300	-7.8055	30.0
Anthracene	1.044	0.970	0.400	-7.1044	30.0
Fluoranthene	1.851	1.713	0.400	-7.449	30.0
Pyrene	1.911	1.749	0.500	-8.442	30.0
Benzo (a) anthracene	1.547	1.395	0.400	-9.8426	30.0
Chrysene	1.596	1.502	0.400	-5.9141	30.0
Benzo (b) fluoranthene	1.464	1.350	0.200	-7.8175	30.0
Benzo (k) fluoranthene	1.457	1.406	0.200	-3.4715	30.0
Benzo (a) pyrene	1.239	1.183	0.200	-4.5804	30.0
Indeno (1,2,3-cd) pyrene	1.381	1.262	0.200	-8.5611	30.0
Dibenzo (a,h) anthracene	1.010	0.905	0.200	-10.3369	30.0
Benzo (g,h,i) perylene	1.374	1.276	0.200	-7.0695	30.0
Fluoranthene-d10	1.380	1.277	0.400	-7.4598	30.0
2-Methylnaphthalene-d10	0.553	0.513	0.300	-7.2778	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.: BM052924 SAS No.: BM052924 SDG No.: BM052924

Instrument ID: BNA_M Calibration Date/Time: 5/29/2024 1:14:09

Lab File ID: BM045780.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4113 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	0.469	0.010	-5.9685	50.0
1,4-Dioxane-d8	0.517	0.483	0.010	-6.6398	50.0
Naphthalene	1.042	0.979	0.600	-6.0535	50.0
1-Methylnaphthalene	0.685	0.636	0.300	-7.13	50.0
2-Methylnaphthalene	0.650	0.606	0.300	-6.7054	50.0
Acenaphthylene	1.846	1.704	0.900	-7.6908	50.0
Acenaphthene	1.338	1.251	0.500	-6.4791	50.0
Fluorene	1.486	1.384	0.700	-6.813	50.0
Pentachlorophenol	0.021	0.015	0.010	-25.0846	50.0
Phenanthrene	1.128	1.044	0.300	-7.3914	50.0
Anthracene	1.044	0.961	0.400	-7.9658	50.0
Fluoranthene	1.851	1.720	0.400	-7.1063	50.0
Pyrene	1.911	1.754	0.500	-8.2106	50.0
Benzo (a) anthracene	1.547	1.390	0.400	-10.1952	50.0
Chrysene	1.596	1.488	0.400	-6.769	50.0
Benzo (b) fluoranthene	1.464	1.341	0.200	-8.4164	50.0
Benzo (k) fluoranthene	1.457	1.410	0.200	-3.2482	50.0
Benzo (a) pyrene	1.239	1.155	0.200	-6.85	50.0
Indeno (1,2,3-cd) pyrene	1.381	1.208	0.200	-12.5183	50.0
Dibenzo (a,h) anthracene	1.010	0.881	0.200	-12.7391	50.0
Benzo (g,h,i) perylene	1.374	1.227	0.200	-10.6533	50.0
Fluoranthene-d10	1.380	1.272	0.400	-7.829	50.0
2-Methylnaphthalene-d10	0.553	0.520	0.300	-6.0144	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	5/13/2024 12:00:00 AM
Project:		Date Received:	5/13/2024 12:00:00 AM
Client Sample ID:	SBLK898	SDG No.:	BM052924
Lab Sample ID:	PB160898BL	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
BM045776.D	1	5/13/2024 12:00:00 AM	5/29/2024 12:00:00 AM	PB160898

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	0.518		15-120		65	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.298		30-130		75	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.288		30-130		72	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7840	7.484				
1146-65-2	Naphthalene-d8	23186	10.259				
15067-26-2	Acenaphthene-d10	11924	14.131				

Report of Analysis

Client:		Date Collected:	5/13/2024 12:00:00 AM
Project:		Date Received:	5/13/2024 12:00:00 AM
Client Sample ID:	SBLK898	SDG No.:	BM052924
Lab Sample ID:	PB160898BL	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
BM045776.D	1	5/13/2024 12:00:00 AM	5/29/2024 12:00:00 AM	PB160898

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	23709	16.874				
1719-03-5	Chrysene-d12	15323	21.061				
1520-96-3	Perylene-d12	16288	23.174				
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-QT2-2024-03	SDG No.:	BM052924
Lab Sample ID:	P2409-01	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
BM045777.D	1	5/13/2024 12:00:00 AM	5/29/2024 12:00:00 AM	PB160898

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.08	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	0.07	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	0.07	J	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.07	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	0.347		15-120		43	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.385		30-130		96	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.363		30-130		91	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7241		7.485			
1146-65-2	Naphthalene-d8	21684		10.26			
15067-26-2	Acenaphthene-d10	11080		14.127			

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-QT2-2024-03	SDG No.:	BM052924
Lab Sample ID:	P2409-01	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
BM045777.D	1	5/13/2024 12:00:00 AM	5/29/2024 12:00:00 AM	PB160898

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	21508	16.871				
1719-03-5	Chrysene-d12	13394	21.061				
1520-96-3	Perylene-d12	14540	23.174				
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-QT2-2024-03	SDG No.:	BM052924
Lab Sample ID:	P2409-03	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
BM045778.D	1	5/13/2024 12:00:00 AM	5/29/2024 12:00:00 AM	PB160894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.5	J	0.89	0	6.7	ug/Kg
91-20-3	Naphthalene	2.3	J	0.2	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	2.1	J	0.52	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	2.2	J	0.19	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	2.2	J	0.33	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	2.2	J	0.18	0.83	3.3	ug/Kg
86-73-7	Fluorene	2.2	J	0.22	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	2.5	J	2	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	2.2	J	0.18	0.83	3.3	ug/Kg
120-12-7	Anthracene	2.1	J	0.17	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	2.2	J	0.18	0.83	3.3	ug/Kg
129-00-0	Pyrene	2.2	J	0.24	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	2	J	0.09	0.83	3.3	ug/Kg
218-01-9	Chrysene	2.1	J	0.25	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	2.1	J	0.47	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	2.2	J	0.32	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	2.2	J	0.32	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2.4	J	0.52	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2.2	J	0.47	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2.3	J	0.75	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.345		15-120		43	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.376		30-130		94	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.361		20-140		90	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7423	7.48				
1146-65-2	Naphthalene-d8	22631	10.255				
15067-26-2	Acenaphthene-d10	11682	14.127				

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-QT2-2024-03	SDG No.:	BM052924
Lab Sample ID:	P2409-03	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
BM045778.D	1	5/13/2024 12:00:00 AM	5/29/2024 12:00:00 AM	PB160894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	23579	16.871				
1719-03-5	Chrysene-d12	15366	21.061				
1520-96-3	Perylene-d12	17154	23.174				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	5/13/2024 12:00:00 AM
Project:		Date Received:	5/13/2024 12:00:00 AM
Client Sample ID:	SBLK894	SDG No.:	BM052924
Lab Sample ID:	PB160894BL	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
BM045779.D	1	5/13/2024 12:00:00 AM	5/29/2024 12:00:00 AM	PB160894

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	0.547		15-120		68	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.317		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	6984		7.485			
1146-65-2	Naphthalene-d8	20645		10.26			
15067-26-2	Acenaphthene-d10	10419		14.127			

Report of Analysis

Client:		Date Collected:	5/13/2024 12:00:00 AM
Project:		Date Received:	5/13/2024 12:00:00 AM
Client Sample ID:	SBLK894	SDG No.:	BM052924
Lab Sample ID:	PB160894BL	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
BM045779.D	1	5/13/2024 12:00:00 AM	5/29/2024 12:00:00 AM	PB160894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19834	16.871				
1719-03-5	Chrysene-d12	12195	21.061				
1520-96-3	Perylene-d12	12986	23.174				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.89	U			99	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM052924

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MDL-WATER-QT2-2024-03							
P2409-01	MDL-WATER-QT2-2024 Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
		Total Tics :			0.00		
P2409-01	MDL-WATER-QT2-2024 Water	1,4-Dioxane		0.080 J	0.029	0.2	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	1-Methylnaphthalene		0.060 J	0.015	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	2-Methylnaphthalene		0.070 J	0.0053	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Acenaphthene		0.070 J	0.0074	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Acenaphthylene		0.070 J	0.012	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Anthracene		0.060 J	0.008	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Benzo(a)anthracene		0.060 J	0.0036	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Benzo(a)pyrene		0.070 J	0.017	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Benzo(b)fluoranthene		0.070 J	0.013	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Benzo(g,h,i)perylene		0.070 J	0.022	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Benzo(k)fluoranthene		0.070 J	0.0098	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Chrysene		0.070 J	0.0077	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Dibenzo(a,h)anthracene		0.070 J	0.014	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Fluoranthene		0.070 J	0.0079	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Fluorene		0.070 J	0.0067	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Indeno(1,2,3-cd)pyrene		0.070 J	0.017	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Naphthalene		0.070 J	0.0043	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Pentachlorophenol		0.070 J	0.063	0.2	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Phenanthrene		0.070 J	0.0068	0.1	ug/L
P2409-01	MDL-WATER-QT2-2024 Water	Pyrene		0.070 J	0.006	0.1	ug/L
		Total Svoc :			1.38		
		Total Concentration:			1.38		
Client ID : MDL-SOIL-QT2-2024-03							
P2409-03	MDL-SOIL-QT2-2024-0: Solid	Total Alkanes	*	0.000	0.89	6.7	ug/Kg
		Total Tics :			0.00		
P2409-03	MDL-SOIL-QT2-2024-0: Solid	1,4-Dioxane		2.500 J	0.89	6.7	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	1-Methylnaphthalene		2.100 J	0.52	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	2-Methylnaphthalene		2.200 J	0.19	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	Acenaphthene		2.200 J	0.18	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	Acenaphthylene		2.200 J	0.33	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	Anthracene		2.100 J	0.17	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	Benzo(a)anthracene		2.000 J	0.09	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	Benzo(a)pyrene		2.200 J	0.32	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	Benzo(b)fluoranthene		2.100 J	0.47	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-0: Solid	Benzo(g,h,i)perylene		2.300 J	0.75	3.3	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BM052924

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Benzo(k)fluoranthene	2.200	J	0.32	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Chrysene	2.100	J	0.25	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Dibenzo(a,h)anthracene	2.200	J	0.47	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Fluoranthene	2.200	J	0.18	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Fluorene	2.200	J	0.22	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Indeno(1,2,3-cd)pyrene	2.400	J	0.52	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Naphthalene	2.300	J	0.2	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Pentachlorophenol	2.500	J	2	6.7	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Phenanthrene	2.200	J	0.18	3.3	ug/Kg
P2409-03	MDL-SOIL-QT2-2024-01	Solid	Pyrene	2.200	J	0.24	3.3	ug/Kg
Total Svoc :				44.40				
Total Concentration:				44.40				



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.: BM052924 SAS No.: BM052924 SDG NO.: BM052924

EPA Sample No.: SSTD0.4003 Date Analyzed: May 29 2024 12:00AM

Lab File ID: BM045769.D Time Analyzed: 09:44

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 SBLK898	7840	7.48	23186	10.26	11924	14.13
02 MDL-WATER-QT2-2024-03	7241	7.49	21684	10.26	11080	14.13
03 MDL-SOIL-QT2-2024-03	7423	7.48	22631	10.26	11682	14.13
04 SBLK894	6984	7.49	20645	10.26	10419	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.: BM052924 SAS No.: BM052924 SDG NO.: BM052924

EPA Sample No.: SSTD0.4112 Date Analyzed: May 29 2024 12:00AM

Lab File ID: BM045775.D Time Analyzed: 09:44

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	6352	7.485	18471	10.26	9250	14.13
UPPER LIMIT	12704	7.985	36942	10.755	18500	14.627
LOWER LIMIT	3176	6.985	9235.5	9.755	4625	13.627
EPA SAMPLE NO.						
01 SBLK898	7840	7.48	23186	10.26	11924	14.13
02 MDL-WATER-QT2-2024-03	7241	7.49	21684	10.26	11080	14.13
03 MDL-SOIL-QT2-2024-03	7423	7.48	22631	10.26	11682	14.13
04 SBLK894	6984	7.49	20645	10.26	10419	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.: BM052924 SAS No.: BM052924 SDG NO.: BM052924

EPA Sample No.: SSTD0.4003 Date Analyzed: May 29 2024 12:00AM

Lab File ID: BM045769.D Time Analyzed: 09:44

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 SBLK898	23709	16.87	15323	21.06	16288	23.17
02 MDL-WATER-QT2-2024-03	21508	16.87	13394	21.06	14540	23.17
03 MDL-SOIL-QT2-2024-03	23579	16.87	15366	21.06	17154	23.17
04 SBLK894	19834	16.87	12195	21.06	12986	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.: BM052924 SAS No.: BM052924 SDG NO.: BM052924

EPA Sample No.: SSTD0.4112 Date Analyzed: May 29 2024 12:00AM

Lab File ID: BM045775.D Time Analyzed: 09:44

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	18251	16.871	11972	21.061	13168	23.174
UPPER LIMIT	36502	17.371	23944	21.561	26336	23.674
LOWER LIMIT	9125.5	16.371	5986	20.561	6584	22.674
EPA SAMPLE NO.						
01 SBLK898	23709	16.87	15323	21.06	16288	23.17
02 MDL-WATER-QT2-2024-03	21508	16.87	13394	21.06	14540	23.17
03 MDL-SOIL-QT2-2024-03	23579	16.87	15366	21.06	17154	23.17
04 SBLK894	19834	16.87	12195	21.06	12986	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.

SBLK894

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM052924

SAS No.: BM052924 SDG NO.: BM052924

Lab File ID: BM045779.D

Lab Sample ID: PB160894BL

Instrument ID: BNA_M

Date Extracted: 05/13/2024

Matrix: (soil/water) Solid

Date Analyzed: 05/29/2024

Level: (low/med) LOW

Time Analyzed: 12:56

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-SOIL-QT2-2024-03	P2409-03	BM045778.D	05/29/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK898

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM052924

SAS No.: BM052924 SDG NO.: BM052924

Lab File ID: BM045776.D

Lab Sample ID: PB160898BL

Instrument ID: BNA_M

Date Extracted: 05/13/2024

Matrix: (soil/water) Water

Date Analyzed: 05/29/2024

Level: (low/med) LOW

Time Analyzed: 09:44

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-WATER-QT2-2024-03	P2409-01	BM045777.D	05/29/2024

COMMENTS: _____



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Surrogate Summary

SW-846

SDG No.: BM052924

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P2409-03	MDL-SOIL-QT2-2(BM045778.D		1,4-Dioxane-d8	0.8	0.35	43		15	120
			Fluoranthene-d10	0.4	0.38	94		30	130
			2-Methylnaphthalene-d10	0.4	0.36	90		20	140
PB160894BL	PB160894BL	BM045779.D	1,4-Dioxane-d8	0.8	0.55	68		15	120
			Fluoranthene-d10	0.4	0.32	79		30	130
			2-Methylnaphthalene-d10	0.4	0.30	74		20	140



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Surrogate Summary

SW-846

SDG No.: BM052924

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
P2409-01	MDL-WATER-QT2BM045777.D		1,4-Dioxane-d8	0.8	0.35	43		15	120
			Fluoranthene-d10	0.4	0.39	96		30	130
			2-Methylnaphthalene-d10	0.4	0.36	91		30	130
PB160898BL	PB160898BL	BM045776.D	1,4-Dioxane-d8	0.8	0.52	65		15	120
			Fluoranthene-d10	0.4	0.30	75		30	130
			2-Methylnaphthalene-d10	0.4	0.29	72		30	130

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM052924

Lab Code: CHEM

SAS No.: BM052924

SDG NO.: BM052924

Lab File ID: BM045774.D

DFTPP Injection Date: 05/29/2024

Instrument ID: BNA_M

DFTPP Injection Time: 08:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	60.2
68	Less than 2.0% of mass 69	0.8 (1.6) 1
69	Mass 69 relative abundance	51.3
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	54.1
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	6.7
275	10.0 - 60.0% of mass 198	24.2
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	8.5
442	Greater than 50% of mass 198	52.6
443	15.0 - 24.0% of mass 442	10.1 (19.2) 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
SSTD0.4112	SSTDCCC0.4	BM045775.D	05/29/2024	09:08
SBLK898	PB160898BL	BM045776.D	05/29/2024	09:44
MDL-WATER-QT2-2024-03	P2409-01	BM045777.D	05/29/2024	11:42
MDL-SOIL-QT2-2024-03	P2409-03	BM045778.D	05/29/2024	12:19
SBLK894	PB160894BL	BM045779.D	05/29/2024	12:56
SSTD0.4113	SSTDCCC0.4EC	BM045780.D	05/29/2024	14:09