

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN112824 SAS No.: BN112824 SDG No.: BN112824

Instrument ID: BNA_N Calibration Date/Time: 11/28/2024 : 11:33

Lab File ID: BN035377.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4357 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane-d8	0.366	0.401	0.010	9.6087	40.0
1,4-Dioxane	0.397	0.421	0.010	6.0095	40.0
Naphthalene	1.008	1.016	0.600	0.8637	30.0
1-Methylnaphthalene	0.705	0.731	0.300	3.6306	30.0
2-Methylnaphthalene	0.699	0.701	0.300	0.292	30.0
Acenaphthylene	1.587	1.671	0.900	5.3241	30.0
Acenaphthene	1.214	1.324	0.500	9.0272	30.0
Fluorene	1.425	1.605	0.700	12.6037	30.0
Pentachlorophenol	0.093	0.081	0.010	-13.0921	50.0
Phenanthrene	1.057	1.132	0.300	7.0542	30.0
Anthracene	0.981	0.986	0.400	0.4252	30.0
Fluoranthene	1.393	1.435	0.400	3.0653	30.0
Pyrene	1.449	1.483	0.500	2.3528	30.0
Benzo (a) anthracene	1.388	1.389	0.400	0.074	30.0
Chrysene	1.397	1.513	0.400	8.3133	30.0
Benzo (b) fluoranthene	1.322	1.310	0.200	-0.9364	30.0
Benzo (k) fluoranthene	1.363	1.520	0.200	11.4734	30.0
Benzo (a) pyrene	1.208	1.207	0.200	-0.0963	30.0
Indeno (1,2,3-cd) pyrene	1.632	1.612	0.200	-1.1941	30.0
Dibenzo (a,h) anthracene	1.279	1.229	0.200	-3.9209	30.0
Benzo (g,h,i) perylene	1.287	1.214	0.200	-5.6132	30.0
Fluoranthene-d10	1.104	1.050	0.400	-4.8857	30.0
2-Methylnaphthalene-d10	0.586	0.551	0.300	-5.9865	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.: BN112824 SAS No.: BN112824 SDG No.: BN112824

Instrument ID: BNA_N Calibration Date/Time: 11/28/2024 : 15:09

Lab File ID: BN035382.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4358 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.397	0.441	0.010	11.158	50.0
1,4-Dioxane-d8	0.366	0.435	0.010	18.8906	50.0
Naphthalene	1.008	1.018	0.600	1.0398	50.0
1-Methylnaphthalene	0.705	0.722	0.300	2.3378	50.0
2-Methylnaphthalene	0.699	0.696	0.300	-0.3907	50.0
Acenaphthylene	1.587	1.623	0.900	2.313	50.0
Acenaphthene	1.214	1.300	0.500	7.1022	50.0
Fluorene	1.425	1.556	0.700	9.162	50.0
Pentachlorophenol	0.093	0.075	0.010	-20.0108	50.0
Phenanthrene	1.057	1.119	0.300	5.7997	50.0
Anthracene	0.981	0.969	0.400	-1.2708	50.0
Fluoranthene	1.393	1.449	0.400	4.0712	50.0
Pyrene	1.449	1.509	0.500	4.0899	50.0
Benzo (a) anthracene	1.388	1.373	0.400	-1.0816	50.0
Chrysene	1.397	1.519	0.400	8.7219	50.0
Benzo (b) fluoranthene	1.322	1.348	0.200	1.928	50.0
Benzo (k) fluoranthene	1.363	1.503	0.200	10.2604	50.0
Benzo (a) pyrene	1.208	1.206	0.200	-0.2082	50.0
Indeno (1,2,3-cd) pyrene	1.632	1.564	0.200	-4.1866	50.0
Dibenzo (a,h) anthracene	1.279	1.194	0.200	-6.7041	50.0
Benzo (g,h,i) perylene	1.287	1.188	0.200	-7.6829	50.0
Fluoranthene-d10	1.104	1.071	0.400	-2.9632	50.0
2-Methylnaphthalene-d10	0.586	0.552	0.300	-5.8777	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	11/22/2024 12:00:00 AM
Project:		Date Received:	11/22/2024 12:00:00 AM
Client Sample ID:	SBLK200	SDG No.:	BN112824
Lab Sample ID:	PB165200BL	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
BN035378.D	1	11/22/2024 12:00:00 AM	11/28/2024 12:00:00 AM	PB165200

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.031	U	0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.011	U	0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.011	U	0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.014	U	0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.013	U	0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.022	U	0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.041	U	0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.014	U	0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.011	U	0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.022	U	0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.016	U	0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.015	U	0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.014	U	0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.004	U	0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.019	U	0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.012	U	0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.023	U	0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.026	U	0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.025	U	0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	6.812		15-120		85	SPK: -8
93951-69-0	Fluoranthene-d10	0.385		30-130		96	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.342		30-130		86	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2379		7.309			
1146-65-2	Naphthalene-d8	6941		10.053			
15067-26-2	Acenaphthene-d10	4991		13.967			

Report of Analysis

Client:		Date Collected:	11/22/2024 12:00:00 AM
Project:		Date Received:	11/22/2024 12:00:00 AM
Client Sample ID:	SBLK200	SDG No.:	BN112824
Lab Sample ID:	PB165200BL	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
BN035378.D	1	11/22/2024 12:00:00 AM	11/28/2024 12:00:00 AM	PB165200

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	11911	16.73				
1719-03-5	Chrysene-d12	10283	20.976				
1520-96-3	Perylene-d12	10436	23.065				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L

Report of Analysis

Client:		Date Collected:	11/25/2024 12:00:00 AM
Project:		Date Received:	11/25/2024 12:00:00 AM
Client Sample ID:	SBLK230	SDG No.:	BN112824
Lab Sample ID:	PB165230BL	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
BN035379.D	1	11/25/2024 12:00:00 AM	11/28/2024 12:00:00 AM	PB165230

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.55	U	0.55	0	3.4	ug/Kg
91-20-3	Naphthalene	0.19	U	0.19	0.83	1.7	ug/Kg
90-12-0	1-Methylnaphthalene	0.43	U	0.43	0.83	1.7	ug/Kg
91-57-6	2-Methylnaphthalene	0.17	U	0.17	0.83	1.7	ug/Kg
208-96-8	Acenaphthylene	0.24	U	0.24	0.83	1.7	ug/Kg
83-32-9	Acenaphthene	0.2	U	0.2	0.83	1.7	ug/Kg
86-73-7	Fluorene	0.34	U	0.34	0.83	1.7	ug/Kg
87-86-5	Pentachlorophenol	0.7	U	0.7	1.7	3.4	ug/Kg
85-01-8	Phenanthrene	0.26	U	0.26	0.83	1.7	ug/Kg
120-12-7	Anthracene	0.26	U	0.26	0.83	1.7	ug/Kg
206-44-0	Fluoranthene	0.34	U	0.34	0.83	1.7	ug/Kg
129-00-0	Pyrene	0.26	U	0.26	0.83	1.7	ug/Kg
56-55-3	Benzo(a)anthracene	0.21	U	0.21	0.83	1.7	ug/Kg
218-01-9	Chrysene	0.21	U	0.21	0.83	1.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.11	U	0.11	0.83	1.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.2	U	0.2	0.83	1.7	ug/Kg
50-32-8	Benzo(a)pyrene	0.18	U	0.18	0.83	1.7	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U	0.43	0.83	1.7	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.45	U	0.45	0.83	1.7	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.49	U	0.49	0.83	1.7	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.4075		15-120		43	SPK: -8
93951-69-0	Fluoranthene-d10	0.187		30-130		47	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.169		20-140		42	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2034	7.31				
1146-65-2	Naphthalene-d8	6075	10.053				
15067-26-2	Acenaphthene-d10	4316	13.967				

Report of Analysis

Client:		Date Collected:	11/25/2024 12:00:00 AM
Project:		Date Received:	11/25/2024 12:00:00 AM
Client Sample ID:	SBLK230	SDG No.:	BN112824
Lab Sample ID:	PB165230BL	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
BN035379.D	1	11/25/2024 12:00:00 AM	11/28/2024 12:00:00 AM	PB165230

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	10404	16.73				
1719-03-5	Chrysene-d12	9122	20.976				
1520-96-3	Perylene-d12	9285	23.068				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.55	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	11/7/2024 12:00:00 AM
Project:		Date Received:	11/7/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT4-2024-08	SDG No.:	BN112824
Lab Sample ID:	P4776-02	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
BN035380.D	1	11/22/2024 12:00:00 AM	11/28/2024 12:00:00 AM	PB165200

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.08	J	0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.06	J	0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.06	J	0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.06	J	0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.06	J	0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.07	J	0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.07	J	0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.07	J	0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.07	J	0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.06	J	0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.07	J	0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.07	J	0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.06	J	0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.07	J	0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.06	J	0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.07	J	0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.06	J	0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.06	J	0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.06	J	0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.06	J	0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.521		15-120		65	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.384		30-130		96	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.339		30-130		85	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2777		7.309			
1146-65-2	Naphthalene-d8	7257		10.058			
15067-26-2	Acenaphthene-d10	5171		13.967			

Report of Analysis

Client:		Date Collected:	11/7/2024 12:00:00 AM
Project:		Date Received:	11/7/2024 12:00:00 AM
Client Sample ID:	MDL-WATER-QT4-2024-08	SDG No.:	BN112824
Lab Sample ID:	P4776-02	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
BN035380.D	1	11/22/2024 12:00:00 AM	11/28/2024 12:00:00 AM	PB165200

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	13024	16.734				
1719-03-5	Chrysene-d12	11800	20.976				
1520-96-3	Perylene-d12	13256	23.071				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L

Report of Analysis

Client:		Date Collected:	11/7/2024 12:00:00 AM
Project:		Date Received:	11/7/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT4-2024-08	SDG No.:	BN112824
Lab Sample ID:	P4776-04	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
BN035381.D	1	11/25/2024 12:00:00 AM	11/28/2024 12:00:00 AM	PB165230

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.3	J	0.55	0	3.4	ug/Kg
91-20-3	Naphthalene	1	J	0.19	0.83	1.7	ug/Kg
90-12-0	1-Methylnaphthalene	1.1	J	0.43	0.83	1.7	ug/Kg
91-57-6	2-Methylnaphthalene	1	J	0.17	0.83	1.7	ug/Kg
208-96-8	Acenaphthylene	1	J	0.24	0.83	1.7	ug/Kg
83-32-9	Acenaphthene	1.1	J	0.2	0.83	1.7	ug/Kg
86-73-7	Fluorene	1.1	J	0.34	0.83	1.7	ug/Kg
87-86-5	Pentachlorophenol	1.2	J	0.7	1.7	3.4	ug/Kg
85-01-8	Phenanthrene	1.1	J	0.26	0.83	1.7	ug/Kg
120-12-7	Anthracene	0.97	J	0.26	0.83	1.7	ug/Kg
206-44-0	Fluoranthene	1.2	J	0.34	0.83	1.7	ug/Kg
129-00-0	Pyrene	1.1	J	0.26	0.83	1.7	ug/Kg
56-55-3	Benzo(a)anthracene	1	J	0.21	0.83	1.7	ug/Kg
218-01-9	Chrysene	1.2	J	0.21	0.83	1.7	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.98	J	0.11	0.83	1.7	ug/Kg
207-08-9	Benzo(k)fluoranthene	1.2	J	0.2	0.83	1.7	ug/Kg
50-32-8	Benzo(a)pyrene	1.1	J	0.18	0.83	1.7	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1	J	0.43	0.83	1.7	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.97	J	0.45	0.83	1.7	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.95	J	0.49	0.83	1.7	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.27		15-120		34	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.1915		30-130		48	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.1685		20-140		42	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2520	7.31				
1146-65-2	Naphthalene-d8	6591	10.059				
15067-26-2	Acenaphthene-d10	4708	13.967				

Report of Analysis

Client:		Date Collected:	11/7/2024 12:00:00 AM
Project:		Date Received:	11/7/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT4-2024-08	SDG No.:	BN112824
Lab Sample ID:	P4776-04	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
BN035381.D	1	11/25/2024 12:00:00 AM	11/28/2024 12:00:00 AM	PB165230

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	11822	16.734				
1719-03-5	Chrysene-d12	10809	20.976				
1520-96-3	Perylene-d12	12288	23.071				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.55	U			99	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN112824

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MDL-WATER-QT4-2024-08							
P4776-02	MDL-WATER-QT4-2024 Water	Total Alkanes	*	0.000	0.031	0.2	ug/L
		Total Tics :			0.00		
P4776-02	MDL-WATER-QT4-2024 Water	1,4-Dioxane		0.080 J	0.031	0.2	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	1-Methylnaphthalene		0.060 J	0.024	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	2-Methylnaphthalene		0.060 J	0.011	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Acenaphthene		0.070 J	0.013	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Acenaphthylene		0.060 J	0.014	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Anthracene		0.060 J	0.011	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Benzo(a)anthracene		0.060 J	0.015	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Benzo(a)pyrene		0.060 J	0.012	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Benzo(b)fluoranthene		0.060 J	0.004	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Benzo(g,h,i)perylene		0.060 J	0.025	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Benzo(k)fluoranthene		0.070 J	0.019	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Chrysene		0.070 J	0.014	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Dibenzo(a,h)anthracene		0.060 J	0.026	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Fluoranthene		0.070 J	0.022	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Fluorene		0.070 J	0.022	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Indeno(1,2,3-cd)pyrene		0.060 J	0.023	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Naphthalene		0.060 J	0.011	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Pentachlorophenol		0.070 J	0.041	0.2	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Phenanthrene		0.070 J	0.014	0.1	ug/L
P4776-02	MDL-WATER-QT4-2024 Water	Pyrene		0.070 J	0.016	0.1	ug/L
		Total Svoc :			1.30		
		Total Concentration:			1.30		
Client ID : MDL-SOIL-QT4-2024-08							
P4776-04	MDL-SOIL-QT4-2024-08 Solid	Total Alkanes	*	0.000	0.55	3.4	ug/Kg
		Total Tics :			0.00		
P4776-04	MDL-SOIL-QT4-2024-08 Solid	1,4-Dioxane		1.300 J	0.55	3.4	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	1-Methylnaphthalene		1.100 J	0.43	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	2-Methylnaphthalene		1.000 J	0.17	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	Acenaphthene		1.100 J	0.2	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	Acenaphthylene		1.000 J	0.24	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	Anthracene		0.970 J	0.26	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	Benzo(a)anthracene		1.000 J	0.21	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	Benzo(a)pyrene		1.100 J	0.18	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	Benzo(b)fluoranthene		0.980 J	0.11	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08 Solid	Benzo(g,h,i)perylene		0.950 J	0.49	1.7	ug/Kg

Hit Summary Sheet SW-846

SDG No.: BN112824

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Benzo(k)fluoranthene	1.200	J	0.2	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Chrysene	1.200	J	0.21	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Dibenzo(a,h)anthracene	0.970	J	0.45	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Fluoranthene	1.200	J	0.34	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Fluorene	1.100	J	0.34	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Indeno(1,2,3-cd)pyrene	1.000	J	0.43	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Naphthalene	1.000	J	0.19	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Pentachlorophenol	1.200	J	0.7	3.4	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Phenanthrene	1.100	J	0.26	1.7	ug/Kg
P4776-04	MDL-SOIL-QT4-2024-08	Solid	Pyrene	1.100	J	0.26	1.7	ug/Kg
Total Svoc :				21.57				
Total Concentration:				21.57				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

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

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

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN112824 SAS No.: BN112824 SDG NO.: BN112824

EPA Sample No.: SSTD0.4225 Date Analyzed: Nov 28 2024 12:00AM

Lab File ID: BN035136.D Time Analyzed: 12:09

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2538	7.55	5912	10.31	3911	14.19
UPPER LIMIT	5076	8.05	11824	10.812	7822	14.689
LOWER LIMIT	1269	7.05	2956	9.812	1955.5	13.689
EPA SAMPLE NO.						
01 SBLK200	2379	7.31	6941	10.05	4991	13.97
02 SBLK230	2034	7.31	6075	10.05	4316	13.97
03 MDL-WATER-QT4-2024-08	2777	7.31	7257	10.06	5171	13.97
04 MDL-SOIL-QT4-2024-08	2520	7.31	6591	10.06	4708	13.97

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN112824 SAS No.: BN112824 SDG NO.: BN112824

EPA Sample No.: SSTD0.4357 Date Analyzed: Nov 28 2024 12:00AM

Lab File ID: BN035377.D Time Analyzed: 12:09

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1949	7.31	5246	10.05	3677	13.97
UPPER LIMIT	3898	7.81	10492	10.553	7354	14.467
LOWER LIMIT	974.5	6.81	2623	9.553	1838.5	13.467
EPA SAMPLE NO.						
01 SBLK200	2379	7.31	6941	10.05	4991	13.97
02 SBLK230	2034	7.31	6075	10.05	4316	13.97
03 MDL-WATER-QT4-2024-08	2777	7.31	7257	10.06	5171	13.97
04 MDL-SOIL-QT4-2024-08	2520	7.31	6591	10.06	4708	13.97

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.: BN112824 SAS No.: BN112824 SDG NO.: BN112824

EPA Sample No.: SSTD0.4225 Date Analyzed: Nov 28 2024 12:00AM

Lab File ID: BN035136.D Time Analyzed: 12:09

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	8422	16.941	7282	21.154	7906	23.331
UPPER LIMIT	16844	17.441	14564	21.654	15812	23.831
LOWER LIMIT	4211	16.441	3641	20.654	3953	22.831
EPA SAMPLE NO.						
01 SBLK200	11911	16.73	10283	20.98	10436	23.07
02 SBLK230	10404	16.73	9122	20.98	9285	23.07
03 MDL-WATER-QT4-2024-08	13024	16.73	11800	20.98	13256	23.07
04 MDL-SOIL-QT4-2024-08	11822	16.73	10809	20.98	12288	23.07

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.: BN112824 SAS No.: BN112824 SDG NO.: BN112824

EPA Sample No.: SSTD0.4357 Date Analyzed: Nov 28 2024 12:00AM

Lab File ID: BN035377.D Time Analyzed: 12:09

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	9337	16.734	9055	20.976	9949	23.071
UPPER LIMIT	18674	17.234	18110	21.476	19898	23.571
LOWER LIMIT	4668.5	16.234	4527.5	20.476	4974.5	22.571
EPA SAMPLE NO.						
01 SBLK200	11911	16.73	10283	20.98	10436	23.07
02 SBLK230	10404	16.73	9122	20.98	9285	23.07
03 MDL-WATER-QT4-2024-08	13024	16.73	11800	20.98	13256	23.07
04 MDL-SOIL-QT4-2024-08	11822	16.73	10809	20.98	12288	23.07

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.

SBLK200

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN112824

SAS No.: BN112824 SDG NO.: BN112824

Lab File ID: BN035378.D

Lab Sample ID: PB165200BL

Instrument ID: BNA_N

Date Extracted: 11/22/2024

Matrix: (soil/water) Water

Date Analyzed: 11/28/2024

Level: (low/med) LOW

Time Analyzed: 12:09

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-WATER-QT4-2024-08	P4776-02	BN035380.D	11/28/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK230

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN112824

SAS No.: BN112824 SDG NO.: BN112824

Lab File ID: BN035379.D

Lab Sample ID: PB165230BL

Instrument ID: BNA_N

Date Extracted: 11/25/2024

Matrix: (soil/water) Solid

Date Analyzed: 11/28/2024

Level: (low/med) LOW

Time Analyzed: 12:44

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-SOIL-QT4-2024-08	P4776-04	BN035381.D	11/28/2024

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: BN112824

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P4776-02	MDL-WATER-QT4BN035380.D		1,4-Dioxane-d8	0.8	0.52	65		15	120
			Fluoranthene-d10	0.4	0.38	96		30	130
			2-Methylnaphthalene-d10	0.4	0.34	85		30	130
PB165200BL	PB165200BL	BN035378.D	1,4-Dioxane-d8	8	6.81	85		15	120
			Fluoranthene-d10	0.4	0.39	96		30	130
			2-Methylnaphthalene-d10	0.4	0.34	86		30	130

Surrogate Summary

SW-846

SDG No.: BN112824

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P4776-04	MDL-SOIL-QT4-2(BN035381.D		1,4-Dioxane-d8	0.8	0.27	34		15	120
			Fluoranthene-d10	0.4	0.19	48		30	130
			2-Methylnaphthalene-d10	0.4	0.17	42		20	140
PB165230BL	PB165230BL	BN035379.D	1,4-Dioxane-d8	8	3.41	43		15	120
			Fluoranthene-d10	0.4	0.19	47		30	130
			2-Methylnaphthalene-d10	0.4	0.17	42		20	140

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN112824

Lab Code: CHEM

SAS No.: BN112824 SDG NO.: BN112824

Lab File ID: BN035376.D

DFTPP Injection Date: 11/28/2024

Instrument ID: BNA_N

DFTPP Injection Time: 10:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	29.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.8
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	11.9
442	Greater than 50% of mass 198	75
443	15.0 - 24.0% of mass 442	14.6 (19.4) 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
SSTD0.4357	SSTDCCC0.4	BN035377.D	11/28/2024	11:33
SBLK200	PB165200BL	BN035378.D	11/28/2024	12:09
SBLK230	PB165230BL	BN035379.D	11/28/2024	12:44
MDL-WATER-QT4-2024-08	P4776-02	BN035380.D	11/28/2024	13:21
MDL-SOIL-QT4-2024-08	P4776-04	BN035381.D	11/28/2024	13:57
SSTD0.4358	SSTDCCC0.4EC	BN035382.D	11/28/2024	15:09