



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN031824 SAS No.: BN031824 SDG No.: BN031824

Instrument ID: BNA_N Calibration Date/Time: 3/18/2024 1:10:54

Lab File ID: BN030425.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4361 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.531	0.571	0.010	7.4797	40.0
1,4-Dioxane-d8	0.488	0.496	0.010	1.6369	40.0
Naphthalene	1.080	1.054	0.600	-2.4404	30.0
1-Methylnaphthalene	0.671	0.653	0.300	-2.6197	30.0
2-Methylnaphthalene	0.632	0.612	0.300	-3.1921	30.0
Acenaphthylene	1.907	1.850	0.900	-3.0001	30.0
Acenaphthene	1.397	1.366	0.500	-2.2197	30.0
Fluorene	1.537	1.494	0.700	-2.8438	30.0
Pentachlorophenol	0.115	0.115	0.010	-0.3572	50.0
Phenanthrene	1.179	1.133	0.300	-3.8601	30.0
Anthracene	1.077	1.012	0.400	-6.1168	30.0
Fluoranthene	1.582	1.553	0.400	-1.8251	30.0
Pyrene	1.691	1.672	0.500	-1.0759	30.0
Benzo (a) anthracene	1.342	1.285	0.400	-4.2001	30.0
Chrysene	1.543	1.519	0.400	-1.5527	30.0
Benzo (b) fluoranthene	1.341	1.298	0.200	-3.2105	30.0
Benzo (k) fluoranthene	1.632	1.590	0.200	-2.5519	30.0
Benzo (a) pyrene	1.417	1.360	0.200	-4.0386	30.0
Indeno (1,2,3-cd) pyrene	1.871	1.740	0.200	-7.0482	30.0
Dibenzo (a,h) anthracene	1.429	1.297	0.200	-9.2521	30.0
Benzo (g,h,i) perylene	1.672	1.596	0.200	-4.5753	30.0
Fluoranthene-d10	1.231	1.210	0.400	-1.7222	30.0
2-Methylnaphthalene-d10	0.553	0.539	0.300	-2.4902	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.: BN031824 SAS No.: BN031824 SDG No.: BN031824
Instrument ID: BNA_N Calibration Date/Time: 3/18/2024 1:14:50
Lab File ID: BN030430.D Init. Calib. Date(s): _____
EPA Sample No.: SSTD0.4362 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.531	0.580	0.010	9.1759	50.0
1,4-Dioxane-d8	0.488	0.537	0.010	10.0557	50.0
Naphthalene	1.080	1.054	0.600	-2.3694	50.0
1-Methylnaphthalene	0.671	0.675	0.300	0.6044	50.0
2-Methylnaphthalene	0.632	0.630	0.300	-0.4191	50.0
Acenaphthylene	1.907	1.846	0.900	-3.2081	50.0
Acenaphthene	1.397	1.354	0.500	-3.0623	50.0
Fluorene	1.537	1.531	0.700	-0.3873	50.0
Pentachlorophenol	0.115	0.119	0.010	3.0665	50.0
Phenanthrene	1.179	1.161	0.300	-1.4948	50.0
Anthracene	1.077	1.038	0.400	-3.6232	50.0
Fluoranthene	1.582	1.571	0.400	-0.7265	50.0
Pyrene	1.691	1.688	0.500	-0.165	50.0
Benzo(a)anthracene	1.342	1.305	0.400	-2.7231	50.0
Chrysene	1.543	1.499	0.400	-2.826	50.0
Benzo(b)fluoranthene	1.341	1.319	0.200	-1.6546	50.0
Benzo(k)fluoranthene	1.632	1.600	0.200	-1.9506	50.0
Benzo(a)pyrene	1.417	1.377	0.200	-2.8213	50.0
Indeno(1,2,3-cd)pyrene	1.871	1.722	0.200	-8.0038	50.0
Dibenzo(a,h)anthracene	1.429	1.293	0.200	-9.5506	50.0
Benzo(g,h,i)perylene	1.672	1.558	0.200	-6.8504	50.0
Fluoranthene-d10	1.231	1.225	0.400	-0.4925	50.0
2-Methylnaphthalene-d10	0.553	0.552	0.300	-0.0949	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.:	BN031824
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
BN030426.D	1	3/5/2024 12:00:00 AM	3/18/2024 12:00:00 AM	PB159440

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	0.726		15-120		91	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.337		30-130		84	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.244		30-130		61	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1988	7.602				
1146-65-2	Naphthalene-d8	4181	10.391				
15067-26-2	Acenaphthene-d10	2424	14.26				
1517-22-2	Phenanthrene-d10	3758	17.026				
1719-03-5	Chrysene-d12	4339	21.226				
1520-96-3	Perylene-d12	5021	23.429				



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.:	BN031824
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
BN030426.D	1	3/5/2024 12:00:00 AM	3/18/2024 12:00:00 AM	PB159440

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	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.:	BN031824
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
BN030427.D	1	3/5/2024 12:00:00 AM	3/18/2024 12:00:00 AM	PB159440

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	0.07	J	0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.07	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	0.07	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	0.09	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	0.07	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	0.07	J	0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.442		15-120		55	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.431		30-130		108	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.357		30-130		89	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2281		7.602			
1146-65-2	Naphthalene-d8	5333		10.381			
15067-26-2	Acenaphthene-d10	3213		14.252			
1517-22-2	Phenanthrene-d10	5653		17.015			
1719-03-5	Chrysene-d12	5232		21.222			
1520-96-3	Perylene-d12	6066		23.429			



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.:	BN031824
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
BN030427.D	1	3/5/2024 12:00:00 AM	3/18/2024 12:00:00 AM	PB159440

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	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.:	BN031824
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
BN030428.D	1	3/6/2024 12:00:00 AM	3/18/2024 12:00:00 AM	PB159473

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.4	J	1.1	0	6.6	ug/Kg
91-20-3	Naphthalene	2.2	J	0.37	0.82	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	2.2	J	0.85	0.82	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	2	J	0.34	0.82	3.3	ug/Kg
208-96-8	Acenaphthylene	2.4	J	0.47	0.82	3.3	ug/Kg
83-32-9	Acenaphthene	2.5	J	0.39	0.82	3.3	ug/Kg
86-73-7	Fluorene	2.2	J	0.68	0.82	3.3	ug/Kg
87-86-5	Pentachlorophenol	2.9	J	1.4	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	2.4	J	0.51	0.82	3.3	ug/Kg
120-12-7	Anthracene	2.2	J	0.52	0.82	3.3	ug/Kg
206-44-0	Fluoranthene	2.4	J	0.68	0.82	3.3	ug/Kg
129-00-0	Pyrene	2.5	J	0.52	0.82	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	1.9	J	0.42	0.82	3.3	ug/Kg
218-01-9	Chrysene	2.3	J	0.42	0.82	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	2.2	J	0.21	0.82	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	2.1	J	0.39	0.82	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	2.2	J	0.36	0.82	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2.1	J	0.86	0.82	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2	J	0.89	0.82	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2.2	J	0.98	0.82	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.441		15-120		55	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.427		30-130		107	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.343		20-140		86	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1908		7.603			
1146-65-2	Naphthalene-d8	4487		10.381			
15067-26-2	Acenaphthene-d10	2665		14.257			
1517-22-2	Phenanthrene-d10	4585		17.02			
1719-03-5	Chrysene-d12	4225		21.222			
1520-96-3	Perylene-d12	4806		23.432			



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.:	BN031824
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
BN030428.D	1	3/6/2024 12:00:00 AM	3/18/2024 12:00:00 AM	PB159473

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.1	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.:	BN031824
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
BN030429.D	1	3/6/2024 12:00:00 AM	3/18/2024 12:00:00 AM	PB159473

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.1	U	1.1	0	6.6	ug/Kg
91-20-3	Naphthalene	0.37	U	0.37	0.83	3.3	ug/Kg
90-12-0	1-Methylnaphthalene	0.85	U	0.85	0.83	3.3	ug/Kg
91-57-6	2-Methylnaphthalene	0.34	U	0.34	0.83	3.3	ug/Kg
208-96-8	Acenaphthylene	0.47	U	0.47	0.83	3.3	ug/Kg
83-32-9	Acenaphthene	0.39	U	0.39	0.83	3.3	ug/Kg
86-73-7	Fluorene	0.68	U	0.68	0.83	3.3	ug/Kg
87-86-5	Pentachlorophenol	1.4	U	1.4	1.7	6.7	ug/Kg
85-01-8	Phenanthrene	0.51	U	0.51	0.83	3.3	ug/Kg
120-12-7	Anthracene	0.52	U	0.52	0.83	3.3	ug/Kg
206-44-0	Fluoranthene	0.68	U	0.68	0.83	3.3	ug/Kg
129-00-0	Pyrene	0.52	U	0.52	0.83	3.3	ug/Kg
56-55-3	Benzo(a)anthracene	0.42	U	0.42	0.83	3.3	ug/Kg
218-01-9	Chrysene	0.42	U	0.42	0.83	3.3	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.21	U	0.21	0.83	3.3	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.39	U	0.39	0.83	3.3	ug/Kg
50-32-8	Benzo(a)pyrene	0.36	U	0.36	0.83	3.3	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.86	U	0.86	0.83	3.3	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	0.89	U	0.89	0.83	3.3	ug/Kg
191-24-2	Benzo(g,h,i)perylene	0.98	U	0.98	0.83	3.3	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.689		15-120		86	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.339		30-130		85	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.255		20-140		64	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2102	7.598				
1146-65-2	Naphthalene-d8	4899	10.38				
15067-26-2	Acenaphthene-d10	2982	14.256				
1517-22-2	Phenanthrene-d10	5178	17.018				
1719-03-5	Chrysene-d12	5477	21.223				
1520-96-3	Perylene-d12	6150	23.435				



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.:	BN031824
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
BN030429.D	1	3/6/2024 12:00:00 AM	3/18/2024 12:00:00 AM	PB159473

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	1.1	U			99	ug/Kg

Hit Summary Sheet

SW-846

SDG No.: BN031824

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	0.031	0.2	ug/L
		Total Tics :			0.00		
P1601-02	MDL-WATER-QT1-2024 Water	1,4-Dioxane		0.080 J	0.031	0.2	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	1-Methylnaphthalene		0.070 J	0.024	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	2-Methylnaphthalene		0.060 J	0.011	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Acenaphthene		0.070 J	0.013	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Acenaphthylene		0.070 J	0.014	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Anthracene		0.060 J	0.011	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(a)anthracene		0.060 J	0.015	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(a)pyrene		0.070 J	0.012	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(b)fluoranthene		0.060 J	0.004	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(g,h,i)perylene		0.070 J	0.025	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Benzo(k)fluoranthene		0.070 J	0.019	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Chrysene		0.070 J	0.014	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Dibenzo(a,h)anthracene		0.060 J	0.026	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Fluoranthene		0.070 J	0.022	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Fluorene		0.070 J	0.022	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Indeno(1,2,3-cd)pyrene		0.060 J	0.023	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Naphthalene		0.070 J	0.011	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Pentachlorophenol		0.090 J	0.041	0.2	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Phenanthrene		0.070 J	0.014	0.1	ug/L
P1601-02	MDL-WATER-QT1-2024 Water	Pyrene		0.070 J	0.016	0.1	ug/L
		Total Svoc :			1.37		
		Total Concentration:			1.37		
Client ID : MDL-SOIL-QT1-2024-02							
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Total Alkanes	*	0.000	1.1	6.6	ug/Kg
		Total Tics :			0.00		
P1601-04	MDL-SOIL-QT1-2024-0: Solid	1,4-Dioxane		3.400 J	1.1	6.6	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	1-Methylnaphthalene		2.200 J	0.85	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	2-Methylnaphthalene		2.000 J	0.34	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Acenaphthene		2.500 J	0.39	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Acenaphthylene		2.400 J	0.47	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Anthracene		2.200 J	0.52	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Benzo(a)anthracene		1.900 J	0.42	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Benzo(a)pyrene		2.200 J	0.36	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Benzo(b)fluoranthene		2.200 J	0.21	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Benzo(g,h,i)perylene		2.200 J	0.98	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Benzo(k)fluoranthene		2.100 J	0.39	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0: Solid	Chrysene		2.300 J	0.42	3.3	ug/Kg



Hit Summary Sheet

SW-846

SDG No.: BN031824

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Dibenzo(a,h)anthracene	2.000	J	0.89	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Fluoranthene	2.400	J	0.68	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Fluorene	2.200	J	0.68	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Indeno(1,2,3-cd)pyrene	2.100	J	0.86	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Naphthalene	2.200	J	0.37	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Pentachlorophenol	2.900	J	1.4	6.7	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Phenanthrene	2.400	J	0.51	3.3	ug/Kg
P1601-04	MDL-SOIL-QT1-2024-0	Solid	Pyrene	2.500	J	0.52	3.3	ug/Kg
Total Svoc :				46.30				
Total Concentration:				46.30				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN031524

SAS No.: BN031524

SDG No.: BN031524

Instrument ID: _____

Calibration Date(s): 3/14/2024 : _____

Calibration Time(s): 19:12 _____

LAB FILE ID:		RRFAL1 = BN030403.D			RRFAL2 = BN030404.D		RRFAL3 = BN030405.D	
		RRFAL4 = BN030406.D			RRFAL5 = BN030407.D		RRFAL6 = BN030408.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.623	0.510	0.515	0.496	0.511	0.531	9.7
1,4-Dioxane-d8		0.537	0.476	0.492	0.461	0.473	0.488	6.1
Naphthalene	1.091	1.079	1.073	1.101	1.055		1.080	1.6
1-Methylnaphthalene	0.625	0.648	0.673	0.716	0.691		0.671	5.3
2-Methylnaphthalene	0.551	0.596	0.634	0.696	0.685		0.632	9.6
Acenaphthylene	1.952	1.911	1.838	1.943	1.890		1.907	2.4
Acenaphthene	1.460	1.405	1.347	1.409	1.363		1.397	3.2
Fluorene	1.524	1.503	1.481	1.615	1.564		1.537	3.5
Pentachlorophenol		0.113	0.101	0.116	0.119	0.127	0.115	8.3
Phenanthrene	1.211	1.194	1.151	1.186	1.151		1.179	2.3
Anthracene	1.089	1.089	1.042	1.090	1.077		1.077	1.9
Fluoranthene	1.572	1.594	1.574	1.608	1.563		1.582	1.2
Pyrene	1.727	1.745	1.675	1.692	1.613		1.691	3.0
Benzo(a)anthracene	1.293	1.329	1.285	1.402	1.398		1.342	4.2
Chrysene	1.566	1.574	1.482	1.581	1.512		1.543	2.8
Benzo(b)fluoranthene	1.335	1.301	1.297	1.400	1.374		1.341	3.4
Benzo(k)fluoranthene	1.694	1.670	1.587	1.614	1.595		1.632	2.9
Benzo(a)pyrene	1.503	1.388	1.380	1.421	1.391		1.417	3.6
Indeno(1,2,3-cd)pyrene	1.892	1.874	1.820	1.895	1.876		1.871	1.6
Dibenzo(a,h)anthracene	1.395	1.424	1.395	1.464	1.467		1.429	2.5
Benzo(g,h,i)perylene	1.702	1.708	1.645	1.670	1.635		1.672	2.0
Fluoranthene-d10	1.227	1.245	1.231	1.245	1.206		1.231	1.3
2-Methylnaphthalene-d10	0.470	0.514	0.562	0.616	0.602		0.553	11.1

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.: BN031824 SAS No.: BN031824 SDG NO.: BN031824

EPA Sample No.: SSTD0.4246 Date Analyzed: Mar 18 2024 12:00AM

Lab File ID: BN030405.D Time Analyzed: 11:31

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	1755	7.608	3947	10.38	2264	14.25
UPPER LIMIT	3510	8.108	7894	10.883	4528	14.754
LOWER LIMIT	877.5	7.108	1973.5	9.883	1132	13.754
EPA SAMPLE NO.						
01 SBLK440	1988	7.60	4181	10.39	2424	14.26
02 MDL-WATER-QT1-2024-02	2281	7.60	5333	10.38	3213	14.25
03 MDL-SOIL-QT1-2024-02	1908	7.60	4487	10.38	2665	14.26
04 SBLK473	2102	7.60	4899	10.38	2982	14.26

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.: BN031824 SAS No.: BN031824 SDG NO.: BN031824

EPA Sample No.: SSTD0.4361 Date Analyzed: Mar 18 2024 12:00AM

Lab File ID: BN030425.D Time Analyzed: 11:31

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	2078	7.602	4813	10.38	2706	14.26
UPPER LIMIT	4156	8.102	9626	10.88	5412	14.755
LOWER LIMIT	1039	7.102	2406.5	9.88	1353	13.755
EPA SAMPLE NO.						
01 SBLK440	1988	7.60	4181	10.39	2424	14.26
02 MDL-WATER-QT1-2024-02	2281	7.60	5333	10.38	3213	14.25
03 MDL-SOIL-QT1-2024-02	1908	7.60	4487	10.38	2665	14.26
04 SBLK473	2102	7.60	4899	10.38	2982	14.26

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: CHEMTECHLab Code: CHEM Case No.: BN031824 SAS No.: BN031824 SDG NO.: BN031824EPA Sample No.: SSTD0.4246 Date Analyzed: Mar 18 2024 12:00AMLab File ID: BN030405.D Time Analyzed: 11:31Instrument 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	4302	17.013	3730	21.215	4309	23.422
UPPER LIMIT	8604	17.513	7460	21.715	8618	23.922
LOWER LIMIT	2151	16.513	1865	20.715	2154.5	22.922
EPA SAMPLE NO.						
01 SBLK440	3758	17.03	4339	21.23	5021	23.43
02 MDL-WATER-QT1-2024-02	5653	17.02	5232	21.22	6066	23.43
03 MDL-SOIL-QT1-2024-02	4585	17.02	4225	21.22	4806	23.43
04 SBLK473	5178	17.02	5477	21.22	6150	23.44

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.: BN031824 SAS No.: BN031824 SDG NO.: BN031824

EPA Sample No.: SSTD0.4361 Date Analyzed: Mar 18 2024 12:00AM

Lab File ID: BN030425.D Time Analyzed: 11:31

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	5271	17.014	4667	21.22	5371	23.423
UPPER LIMIT	10542	17.514	9334	21.72	10742	23.923
LOWER LIMIT	2635.5	16.514	2333.5	20.72	2685.5	22.923
EPA SAMPLE NO.						
01 SBLK440	3758	17.03	4339	21.23	5021	23.43
02 MDL-WATER-QT1-2024-02	5653	17.02	5232	21.22	6066	23.43
03 MDL-SOIL-QT1-2024-02	4585	17.02	4225	21.22	4806	23.43
04 SBLK473	5178	17.02	5477	21.22	6150	23.44

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.

SBLK440

Lab Name: CHEMTECH

Contract:

Lab Code: CHEM Case No.: BN031824

SAS No.: BN031824 SDG NO.: BN031824

Lab File ID: BN030426.D

Lab Sample ID: PB159440BL

Instrument ID: BNA_N

Date Extracted: 03/05/2024

Matrix: (soil/water) Water

Date Analyzed: 03/18/2024

Level: (low/med) LOW

Time Analyzed: 11:31

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	BN030427.D	03/18/2024

COMMENTS:



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK473

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN031824SAS No.: BN031824 SDG NO.: BN031824Lab File ID: BN030429.DLab Sample ID: PB159473BLInstrument ID: BNA_NDate Extracted: 03/06/2024Matrix: (soil/water) SolidDate Analyzed: 03/18/2024Level: (low/med) LOWTime Analyzed: 14:01

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	BN030428.D	03/18/2024

COMMENTS: _____



Surrogate Summary
SW-846

SDG No.: BN031824

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	BN030427.D	1,4-Dioxane-d8	0.8	0.44	55		15	120
			Fluoranthene-d10	0.4	0.43	108		30	130
			2-Methylnaphthalene-d10	0.4	0.36	89		30	130
PB159440BL	PB159440BL	BN030426.D	1,4-Dioxane-d8	0.8	0.73	91		15	120
			Fluoranthene-d10	0.4	0.34	84		30	130
			2-Methylnaphthalene-d10	0.4	0.24	61		30	130



Surrogate Summary
SW-846

SDG No.: BN031824

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(BN030428.D		1,4-Dioxane-d8	0.8	0.44	55		15	120
			Fluoranthene-d10	0.4	0.43	107		30	130
			2-Methylnaphthalene-d10	0.4	0.34	86		20	140
PB159473BL	PB159473BL	BN030429.D	1,4-Dioxane-d8	0.8	0.69	86		15	120
			Fluoranthene-d10	0.4	0.34	85		30	130
			2-Methylnaphthalene-d10	0.4	0.26	64		20	140

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN031824

Lab Code: CHEM

SAS No.: BN031824 SDG NO.: BN031824

Lab File ID: BN030424.D

DFTPP Injection Date: 03/18/2024

Instrument ID: BNA_N

DFTPP Injection Time: 10:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	43.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	42.6
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 60.0% of mass 198	25.7
365	Greater than 1% of mass 198	4.8
441	Present, but less than mass 443	10.6
442	Greater than 50% of mass 198	62.3
443	15.0 - 24.0% of mass 442	12.8 (20.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.4361	SSTDCCC0.4	BN030425.D	03/18/2024	10:54
SBLK440	PB159440BL	BN030426.D	03/18/2024	11:31
MDL-WATER-QT1-2024-02	P1601-02	BN030427.D	03/18/2024	12:10
MDL-SOIL-QT1-2024-02	P1601-04	BN030428.D	03/18/2024	12:54
SBLK473	PB159473BL	BN030429.D	03/18/2024	14:01
SSTD0.4362	SSTDCCC0.4EC	BN030430.D	03/18/2024	14:50