



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN032724 SAS No.: BN032724 SDG No.: BN032724

Instrument ID: BNA_N Calibration Date/Time: 3/27/2024 1: 21:44

Lab File ID: BN030515.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4365 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.444	0.449	0.010	0.9891	50.0
1,4-Dioxane-d8	0.438	0.446	0.010	1.7567	50.0
Naphthalene	1.091	1.115	0.600	2.252	50.0
1-Methylnaphthalene	0.762	0.796	0.300	4.4254	50.0
2-Methylnaphthalene	0.720	0.746	0.300	3.6032	50.0
Acenaphthylene	1.806	1.821	0.900	0.8091	50.0
Acenaphthene	1.406	1.415	0.500	0.6534	50.0
Fluorene	1.657	1.671	0.700	0.854	50.0
Pentachlorophenol	0.073	0.065	0.010	-10.5798	50.0
Phenanthrene	1.200	1.218	0.300	1.4448	50.0
Anthracene	1.011	1.018	0.400	0.7163	50.0
Fluoranthene	1.650	1.645	0.400	-0.2601	50.0
Pyrene	1.624	1.626	0.500	0.0775	50.0
Benzo (a) anthracene	1.380	1.408	0.400	1.9846	50.0
Chrysene	1.524	1.541	0.400	1.1029	50.0
Benzo (b) fluoranthene	1.629	1.579	0.200	-3.0707	50.0
Benzo (k) fluoranthene	1.717	1.741	0.200	1.4044	50.0
Benzo (a) pyrene	1.322	1.316	0.200	-0.4446	50.0
Indeno (1,2,3-cd) pyrene	1.495	1.611	0.200	7.7839	50.0
Dibenzo (a,h) anthracene	1.188	1.288	0.200	8.4548	50.0
Benzo (g,h,i) perylene	1.270	1.274	0.200	0.348	50.0
Fluoranthene-d10	1.236	1.235	0.400	-0.1049	50.0
2-Methylnaphthalene-d10	0.602	0.629	0.300	4.502	50.0

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.: BN032724 SAS No.: BN032724 SDG No.: BN032724

Instrument ID: BNA_N Calibration Date/Time: 3/27/2024 1:15:05

Lab File ID: BN030505.D Init. Calib. Date(s): _____

EPA Sample No.: SICV215 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.444	0.425	0.010	-4.3195	40.0
1,4-Dioxane-d8	0.438	0.434	0.010	-1.0512	40.0
Naphthalene	1.091	1.156	0.600	6.0274	30.0
1-Methylnaphthalene	0.762	0.734	0.300	-3.6679	30.0
2-Methylnaphthalene	0.720	0.784	0.300	8.9361	30.0
Acenaphthylene	1.806	1.897	0.900	5.0195	30.0
Acenaphthene	1.406	1.428	0.500	1.5726	30.0
Fluorene	1.657	1.716	0.700	3.5821	30.0
Pentachlorophenol	0.073	0.065	0.010	-11.5224	50.0
Phenanthrene	1.200	1.230	0.300	2.5031	30.0
Anthracene	1.011	1.023	0.400	1.2417	30.0
Fluoranthene	1.650	1.723	0.400	4.431	30.0
Pyrene	1.624	1.708	0.500	5.1643	30.0
Benzo (a) anthracene	1.380	1.410	0.400	2.1455	30.0
Chrysene	1.524	1.588	0.400	4.1626	30.0
Benzo (b) fluoranthene	1.629	1.647	0.200	1.0812	30.0
Benzo (k) fluoranthene	1.717	1.837	0.200	7.0201	30.0
Benzo (a) pyrene	1.322	1.280	0.200	-3.1928	30.0
Indeno (1,2,3-cd) pyrene	1.495	1.581	0.200	5.7277	30.0
Dibenzo (a,h) anthracene	1.188	1.254	0.200	5.5917	30.0
Benzo (g,h,i) perylene	1.270	1.201	0.200	-5.4129	30.0
Fluoranthene-d10	1.236	1.226	0.400	-0.8535	30.0
2-Methylnaphthalene-d10	0.602	0.603	0.300	0.1456	30.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	3/25/2024 12:00:00 AM
Project:		Date Received:	3/25/2024 12:00:00 AM
Client Sample ID:	SBLK784	SDG No.:	BN032724
Lab Sample ID:	PB159784BL	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
BN030506.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

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	5.278		15-120		66	SPK: -8
93951-69-0	Fluoranthene-d10	0.355		30-130		89	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.283		30-130		71	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6167		7.724			
1146-65-2	Naphthalene-d8	19919		10.506			
15067-26-2	Acenaphthene-d10	12013		14.357			
1517-22-2	Phenanthrene-d10	28346		17.107			
1719-03-5	Chrysene-d12	20322		21.299			
1520-96-3	Perylene-d12	14907		23.544			



Report of Analysis

Client:		Date Collected:	3/25/2024 12:00:00 AM
Project:		Date Received:	3/25/2024 12:00:00 AM
Client Sample ID:	SBLK784	SDG No.:	BN032724
Lab Sample ID:	PB159784BL	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
BN030506.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

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:	3/25/2024 12:00:00 AM
Project:		Date Received:	3/25/2024 12:00:00 AM
Client Sample ID:	SBLK786	SDG No.:	BN032724
Lab Sample ID:	PB159786BL	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
BN030507.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159786

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	5.547		15-120		69	SPK: -8
93951-69-0	Fluoranthene-d10	0.35		30-130		88	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.297		30-130		74	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6967		7.724			
1146-65-2	Naphthalene-d8	22447		10.507			
15067-26-2	Acenaphthene-d10	13636		14.359			
1517-22-2	Phenanthrene-d10	32200		17.104			
1719-03-5	Chrysene-d12	22414		21.299			
1520-96-3	Perylene-d12	16795		23.546			



Report of Analysis

Client:		Date Collected:	3/25/2024 12:00:00 AM
Project:		Date Received:	3/25/2024 12:00:00 AM
Client Sample ID:	SBLK786	SDG No.:	BN032724
Lab Sample ID:	PB159786BL	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
BN030507.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159786

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:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY4	SDG No.:	BN032724
Lab Sample ID:	P1848-01	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	980 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
BN030508.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.04	J	0.03	0	0.2	ug/L
91-20-3	Naphthalene	0.01	U	0.01	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.04	U	0.04	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.02	U	0.02	0.05	0.1	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0	U	0	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.02	U	0.02	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.01	U	0.01	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.03	U	0.03	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.03	U	0.03	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.093		15-120		64	SPK: -8
93951-69-0	Fluoranthene-d10	0.422		30-130		105	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.351		30-130		88	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5930		7.724			
1146-65-2	Naphthalene-d8	19778		10.506			
15067-26-2	Acenaphthene-d10	13108		14.362			
1517-22-2	Phenanthrene-d10	31936		17.107			
1719-03-5	Chrysene-d12	25662		21.298			
1520-96-3	Perylene-d12	18793		23.546			



Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY4	SDG No.:	BN032724
Lab Sample ID:	P1848-01	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	980	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
BN030508.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY4MS	SDG No.:	BN032724
Lab Sample ID:	P1848-02MS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	970 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
BN030509.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.78		0.03	0	0.21	ug/L
91-20-3	Naphthalene	0.35		0.01	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.42		0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.41		0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.37		0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.44		0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.4		0.02	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	1.5		0.04	0.1	0.21	ug/L
85-01-8	Phenanthrene	0.43		0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.43		0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.44		0.02	0.05	0.1	ug/L
129-00-0	Pyrene	0.47		0.02	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.47		0.02	0.05	0.1	ug/L
218-01-9	Chrysene	0.42		0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.43		0	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.41		0.02	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.43		0.01	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.41		0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.41		0.03	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.38		0.03	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.246		15-120		31	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.43		30-130		108	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.331		30-130		83	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6147		7.724			
1146-65-2	Naphthalene-d8	19986		10.507			
15067-26-2	Acenaphthene-d10	12745		14.358			
1517-22-2	Phenanthrene-d10	29397		17.108			
1719-03-5	Chrysene-d12	23816		21.298			
1520-96-3	Perylene-d12	20375		23.543			



Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY4MS	SDG No.:	BN032724
Lab Sample ID:	P1848-02MS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	970	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
BN030509.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY4MSD	SDG No.:	BN032724
Lab Sample ID:	P1848-03MSD	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	970 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
BN030510.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.81		0.03	0	0.21	ug/L
91-20-3	Naphthalene	0.36		0.01	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.44		0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.42		0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.39		0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.46		0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.41		0.02	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	1.6		0.04	0.1	0.21	ug/L
85-01-8	Phenanthrene	0.44		0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.45		0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.52		0.02	0.05	0.1	ug/L
129-00-0	Pyrene	0.54		0.02	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.49		0.02	0.05	0.1	ug/L
218-01-9	Chrysene	0.44		0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.43		0	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.41		0.02	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.45		0.01	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.49		0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.49		0.03	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.46		0.03	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.257		15-120		32	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.511		30-130		128	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	8203		7.724			
1146-65-2	Naphthalene-d8	26413		10.507			
15067-26-2	Acenaphthene-d10	16495		14.358			
1517-22-2	Phenanthrene-d10	35783		17.104			
1719-03-5	Chrysene-d12	23439		21.298			
1520-96-3	Perylene-d12	19831		23.543			



Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY4MSD	SDG No.:	BN032724
Lab Sample ID:	P1848-03MSD	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	970	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
BN030510.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY6	SDG No.:	BN032724
Lab Sample ID:	P1848-04	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990 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
BN030511.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159786

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.03	U	0.03	0	0.2	ug/L
91-20-3	Naphthalene	0.01	U	0.01	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.04	U	0.04	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.02	U	0.02	0.05	0.1	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0	U	0	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.02	U	0.02	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.01	U	0.01	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.03	U	0.03	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.03	U	0.03	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.448		15-120		56	SPK: -8
93951-69-0	Fluoranthene-d10	0.34		30-130		85	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.328		30-130		82	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6548		7.724			
1146-65-2	Naphthalene-d8	21931		10.507			
15067-26-2	Acenaphthene-d10	14574		14.359			
1517-22-2	Phenanthrene-d10	35612		17.104			
1719-03-5	Chrysene-d12	29173		21.298			
1520-96-3	Perylene-d12	23044		23.543			



Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY6	SDG No.:	BN032724
Lab Sample ID:	P1848-04	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	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
BN030511.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159786

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY7	SDG No.:	BN032724
Lab Sample ID:	P1848-05	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
BN030512.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159786

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	4.159		15-120		52	SPK: -8
93951-69-0	Fluoranthene-d10	0.384		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	6652		7.724			
1146-65-2	Naphthalene-d8	22371		10.507			
15067-26-2	Acenaphthene-d10	15010		14.358			
1517-22-2	Phenanthrene-d10	35862		17.108			
1719-03-5	Chrysene-d12	27768		21.298			
1520-96-3	Perylene-d12	20076		23.546			



Report of Analysis

Client:		Date Collected:	3/20/2024 12:00:00 AM
Project:		Date Received:	3/20/2024 12:00:00 AM
Client Sample ID:	E0LY7	SDG No.:	BN032724
Lab Sample ID:	P1848-05	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
BN030512.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159786

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:	3/25/2024 12:00:00 AM
Project:		Date Received:	3/25/2024 12:00:00 AM
Client Sample ID:	SLCS784	SDG No.:	BN032724
Lab Sample ID:	PB159784BS	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
BN030513.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.9		0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.39		0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.39		0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.4		0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.41		0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.39		0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.39		0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.97		0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.39		0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.42		0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.39		0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.41		0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.43		0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.41		0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.39		0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.4		0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.44		0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.42		0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.42		0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.4		0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.774		15-120		97	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.386		30-130		97	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.397		30-130		99	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5558	7.724				
1146-65-2	Naphthalene-d8	17624	10.507				
15067-26-2	Acenaphthene-d10	11096	14.358				
1517-22-2	Phenanthrene-d10	26711	17.104				
1719-03-5	Chrysene-d12	22760	21.298				
1520-96-3	Perylene-d12	20729	23.546				



Report of Analysis

Client:		Date Collected:	3/25/2024 12:00:00 AM
Project:		Date Received:	3/25/2024 12:00:00 AM
Client Sample ID:	SLCS784	SDG No.:	BN032724
Lab Sample ID:	PB159784BS	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
BN030513.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159784

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:	3/25/2024 12:00:00 AM
Project:		Date Received:	3/25/2024 12:00:00 AM
Client Sample ID:	SLCS786	SDG No.:	BN032724
Lab Sample ID:	PB159786BS	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
BN030514.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159786

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2		0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.4		0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.4		0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.41		0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.41		0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.4		0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.4		0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.9		0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.4		0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.42		0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.41		0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.43		0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.43		0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.42		0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.41		0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.42		0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.44		0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.43		0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.44		0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.41		0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.796		15-120		100	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.401		30-130		100	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.404		30-130		101	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5548	7.724				
1146-65-2	Naphthalene-d8	17316	10.507				
15067-26-2	Acenaphthene-d10	10713	14.358				
1517-22-2	Phenanthrene-d10	25417	17.103				
1719-03-5	Chrysene-d12	20971	21.298				
1520-96-3	Perylene-d12	18049	23.543				



Report of Analysis

Client:		Date Collected:	3/25/2024 12:00:00 AM
Project:		Date Received:	3/25/2024 12:00:00 AM
Client Sample ID:	SLCS786	SDG No.:	BN032724
Lab Sample ID:	PB159786BS	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
BN030514.D	1	3/25/2024 12:00:00 AM	3/27/2024 12:00:00 AM	PB159786

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L



Hit Summary Sheet
SW-846

SDG No.: BN032724

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : E0LY4								
P1848-01	E0LY4	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
P1848-01	E0LY4	Water	1,4-Dioxane		0.040	J 0.03	0.2	ug/L
			Total Svoc :			0.04		
			Total Concentration:			0.04		
Client ID : E0LY6								
P1848-04	E0LY6	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		
Client ID : E0LY7								
P1848-05	E0LY7	Water	Total Alkanes	*	0.000	0.031	0.2	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN032724 SAS No.: BN032724 SDG No.: BN032724
Instrument ID: _____ Calibration Date(s): 3/27/2024 : _____
Calibration Time(s): 11:28 _____

LAB FILE ID:		RRFAL1 = BN030499.D			RRFAL2 = BN030500.D		RRFAL3 = BN030501.D	
		RRFAL4 = BN030502.D			RRFAL5 = BN030503.D		RRFAL6 = BN030504.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.456	0.478	0.437	0.430	0.419	0.444	5.3
1,4-Dioxane-d8		0.491	0.453	0.432	0.411	0.404	0.438	8.1
Naphthalene	1.105	1.084	1.123	1.086	1.054		1.091	2.4
1-Methylnaphthalene	0.756	0.754	0.782	0.768	0.749		0.762	1.7
2-Methylnaphthalene	0.710	0.707	0.743	0.727	0.714		0.720	2.1
Acenaphthylene	1.799	1.760	1.839	1.815	1.816		1.806	1.6
Acenaphthene	1.415	1.391	1.437	1.405	1.383		1.406	1.5
Fluorene	1.618	1.627	1.690	1.681	1.666		1.657	2.0
Pentachlorophenol		0.065	0.070	0.072	0.076	0.083	0.073	9.2
Phenanthrene	1.191	1.186	1.228	1.206	1.190		1.200	1.4
Anthracene	0.964	0.966	1.022	1.035	1.067		1.011	4.4
Fluoranthene	1.646	1.643	1.723	1.650	1.586		1.650	2.9
Pyrene	1.660	1.647	1.690	1.587	1.537		1.624	3.8
Benzo(a)anthracene	1.330	1.327	1.398	1.409	1.438		1.380	3.6
Chrysene	1.552	1.535	1.566	1.509	1.460		1.524	2.7
Benzo(b)fluoranthene	1.469	1.608	1.654	1.698	1.715		1.629	6.0
Benzo(k)fluoranthene	1.556	1.630	1.778	1.804	1.817		1.717	6.8
Benzo(a)pyrene	1.284	1.264	1.312	1.352	1.398		1.322	4.1
Indeno(1,2,3-cd)pyrene	1.442	1.409	1.467	1.545	1.612		1.495	5.5
Dibenzo(a,h)anthracene	1.120	1.099	1.167	1.248	1.306		1.188	7.4
Benzo(g,h,i)perylene	1.233	1.244	1.244	1.307	1.322		1.270	3.2
Fluoranthene-d10	1.268	1.251	1.284	1.214	1.165		1.236	3.8
2-Methylnaphthalene-d10	0.595	0.597	0.620	0.606	0.592		0.602	1.9

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.: BN032724 SAS No.: BN032724 SDG NO.: BN032724

EPA Sample No.: SSTD0.4211 Date Analyzed: Mar 27 2024 12:00AM

Lab File ID: BN030501.D Time Analyzed: 15:05

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	5235	7.724	15700	10.51	9268	14.36
	UPPER LIMIT	10470	8.224	31400	11.006	18536	14.862
	LOWER LIMIT	2617.5	7.224	7850	10.006	4634	13.862
	EPA SAMPLE NO.						
01	SICV215	7916	7.72	23912	10.51	14251	14.36
02	SBLK784	6167	7.72	19919	10.51	12013	14.36
03	SBLK786	6967	7.72	22447	10.51	13636	14.36
04	E0LY4	5930	7.72	19778	10.51	13108	14.36
05	E0LY4MS	6147	7.72	19986	10.51	12745	14.36
06	E0LY4MSD	8203	7.72	26413	10.51	16495	14.36
07	E0LY6	6548	7.72	21931	10.51	14574	14.36
08	E0LY7	6652	7.72	22371	10.51	15010	14.36
09	SLCS784	5558	7.72	17624	10.51	11096	14.36
10	SLCS786	5548	7.72	17316	10.51	10713	14.36

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECHLab Code: CHEM Case No.: BN032724 SAS No.: BN032724 SDG NO.: BN032724

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

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.: BN032724 SAS No.: BN032724 SDG NO.: BN032724

EPA Sample No.: SSTD0.4211 Date Analyzed: Mar 27 2024 12:00AM

Lab File ID: BN030501.D Time Analyzed: 15:05

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	21581	17.107	16747	21.299	13351	23.546
UPPER LIMIT	43162	17.607	33494	21.799	26702	24.046
LOWER LIMIT	10790.5	16.607	8373.5	20.799	6675.5	23.046
EPA SAMPLE NO.						
01 SICV215	33477	17.11	26506	21.30	21685	23.55
02 SBLK784	28346	17.11	20322	21.30	14907	23.54
03 SBLK786	32200	17.10	22414	21.30	16795	23.55
04 E0LY4	31936	17.11	25662	21.30	18793	23.55
05 E0LY4MS	29397	17.11	23816	21.30	20375	23.54
06 E0LY4MSD	35783	17.10	23439	21.30	19831	23.54
07 E0LY6	35612	17.10	29173	21.30	23044	23.54
08 E0LY7	35862	17.11	27768	21.30	20076	23.55
09 SLCS784	26711	17.10	22760	21.30	20729	23.55
10 SLCS786	25417	17.10	20971	21.30	18049	23.54

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: CHEMTECHLab Code: CHEM Case No.: BN032724 SAS No.: BN032724 SDG NO.: BN032724

EPA Sample No.: _____

Date Analyzed: _____

Lab File ID: _____

Time Analyzed: _____

Instrument ID: _____

GC Column: _____ ID: _____ (mm)

	IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



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

SDG No.: BN032724

Client: _____

Analytical Method: SFAM_SVOASIM DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
SSTDICV0.4	1,4-Dioxane	0.4	0	ug/L	0				0	0	
	Naphthalene	0.4	0	ug/L	0				0	0	
	1-Methylnaphthalene	0.4	0	ug/L	0				0	0	
	2-Methylnaphthalene	0.4	0	ug/L	0				0	0	
	Acenaphthylene	0.4	0	ug/L	0				0	0	
	Acenaphthene	0.4	0	ug/L	0				0	0	
	Fluorene	0.4	0	ug/L	0				0	0	
	Pentachlorophenol	0.4	0	ug/L	0				0	0	
	Phenanthrene	0.4	0	ug/L	0				0	0	
	Anthracene	0.4	0	ug/L	0				0	0	
	Fluoranthene	0.4	0	ug/L	0				0	0	
	Pyrene	0.4	0	ug/L	0				0	0	
	Benzo(a)anthracene	0.4	0	ug/L	0				0	0	
	Chrysene	0.4	0	ug/L	0				0	0	
	Benzo(b)fluoranthene	0.4	0	ug/L	0				0	0	
	Benzo(k)fluoranthene	0.4	0	ug/L	0				0	0	
	Benzo(a)pyrene	0.4	0	ug/L	0				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0	ug/L	0				0	0	
	Dibenzo(a,h)anthracene	0.4	0	ug/L	0				0	0	
	Benzo(g,h,i)perylene	0.4	0	ug/L	0				0	0	



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

SDG No.: BN032724

Client: _____

Analytical Method: SFAM_SVOASIM DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB159784BS	1,4-Dioxane	2	1.9	ug/L	95				0	0	
	Naphthalene	0.4	0.39	ug/L	98				0	0	
	1-Methylnaphthalene	0.4	0.39	ug/L	98				0	0	
	2-Methylnaphthalene	0.4	0.4	ug/L	100				0	0	
	Acenaphthylene	0.4	0.41	ug/L	103				0	0	
	Acenaphthene	0.4	0.39	ug/L	98				0	0	
	Fluorene	0.4	0.39	ug/L	98				0	0	
	Pentachlorophenol	0.8	0.97	ug/L	121				0	0	
	Phenanthrene	0.4	0.39	ug/L	98				0	0	
	Anthracene	0.4	0.42	ug/L	105				0	0	
	Fluoranthene	0.4	0.39	ug/L	98				0	0	
	Pyrene	0.4	0.41	ug/L	103				0	0	
	Benzo(a)anthracene	0.4	0.43	ug/L	108				0	0	
	Chrysene	0.4	0.41	ug/L	103				0	0	
	Benzo(b)fluoranthene	0.4	0.39	ug/L	98				0	0	
	Benzo(k)fluoranthene	0.4	0.4	ug/L	100				0	0	
	Benzo(a)pyrene	0.4	0.44	ug/L	110				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0.42	ug/L	105				0	0	
	Dibenzo(a,h)anthracene	0.4	0.42	ug/L	105				0	0	
	Benzo(g,h,i)perylene	0.4	0.4	ug/L	100				0	0	



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

SDG No.: BN032724

Client: _____

Analytical Method: SFAM_SVOASIM DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB159786BS	1,4-Dioxane	2	2	ug/L	100				0	0	
	Naphthalene	0.4	0.4	ug/L	100				0	0	
	1-Methylnaphthalene	0.4	0.4	ug/L	100				0	0	
	2-Methylnaphthalene	0.4	0.41	ug/L	103				0	0	
	Acenaphthylene	0.4	0.41	ug/L	103				0	0	
	Acenaphthene	0.4	0.4	ug/L	100				0	0	
	Fluorene	0.4	0.4	ug/L	100				0	0	
	Pentachlorophenol	0.8	0.9	ug/L	113				0	0	
	Phenanthrene	0.4	0.4	ug/L	100				0	0	
	Anthracene	0.4	0.42	ug/L	105				0	0	
	Fluoranthene	0.4	0.41	ug/L	103				0	0	
	Pyrene	0.4	0.43	ug/L	108				0	0	
	Benzo(a)anthracene	0.4	0.43	ug/L	108				0	0	
	Chrysene	0.4	0.42	ug/L	105				0	0	
	Benzo(b)fluoranthene	0.4	0.41	ug/L	103				0	0	
	Benzo(k)fluoranthene	0.4	0.42	ug/L	105				0	0	
	Benzo(a)pyrene	0.4	0.44	ug/L	110				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0.43	ug/L	108				0	0	
	Dibenzo(a,h)anthracene	0.4	0.44	ug/L	110				0	0	
	Benzo(g,h,i)perylene	0.4	0.41	ug/L	103				0	0	



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK784

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN032724SAS No.: BN032724 SDG NO.: BN032724Lab File ID: BN030506.DLab Sample ID: PB159784BLInstrument ID: BNA_NDate Extracted: 03/25/2024Matrix: (soil/water) WaterDate Analyzed: 03/27/2024Level: (low/med) LOWTime Analyzed: 15:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB159784BS	PB159784BS	BN030513.D	03/27/2024
E0LY4	P1848-01	BN030508.D	03/27/2024
E0LY4MS	P1848-02MS	BN030509.D	03/27/2024
E0LY4MSD	P1848-03MSD	BN030510.D	03/27/2024

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK786

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN032724SAS No.: BN032724 SDG NO.: BN032724Lab File ID: BN030507.DLab Sample ID: PB159786BLInstrument ID: BNA_NDate Extracted: 03/25/2024Matrix: (soil/water) WaterDate Analyzed: 03/27/2024Level: (low/med) LOWTime Analyzed: 16:17

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB159786BS	PB159786BS	BN030514.D	03/27/2024
E0LY6	P1848-04	BN030511.D	03/27/2024
E0LY7	P1848-05	BN030512.D	03/27/2024

COMMENTS: _____



Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: BN032724

Client: _____

Analytical Method: SFAM_SVOASIM

Parameter		Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P1848-02MS		Client Sample ID:	E0LY4MS					DataFile:	BN030509.D		
1,4-Dioxane		2.1	0.04	0.78	ug/L	35				15	120	
Naphthalene		0.41		0.35	ug/L	85				0	0	
1-Methylnaphthalene		0.41		0.42	ug/L	102				0	0	
2-Methylnaphthalene		0.41		0.41	ug/L	100				0	0	
Acenaphthylene		0.41		0.37	ug/L	90				0	0	
Acenaphthene		0.41		0.44	ug/L	107				46	118	
Fluorene		0.41		0.4	ug/L	98				0	0	
Pentachlorophenol		0.82		1.5	ug/L	183	*			9	103	
Phenanthrene		0.41		0.43	ug/L	105				0	0	
Anthracene		0.41		0.43	ug/L	105				0	0	
Fluoranthene		0.41		0.44	ug/L	107				0	0	
Pyrene		0.41		0.47	ug/L	115				26	127	
Benzo(a)anthracene		0.41		0.47	ug/L	115				0	0	
Chrysene		0.41		0.42	ug/L	102				0	0	
Benzo(b)fluoranthene		0.41		0.43	ug/L	105				0	0	
Benzo(k)fluoranthene		0.41		0.41	ug/L	100				0	0	
Benzo(a)pyrene		0.41		0.43	ug/L	105				0	0	
Indeno(1,2,3-cd)pyrene		0.41		0.41	ug/L	100				0	0	
Dibenzo(a,h)anthracene		0.41		0.41	ug/L	100				0	0	
Benzo(g,h,i)perylene		0.41		0.38	ug/L	93				0	0	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: BN032724

Client: _____

Analytical Method: SFAM_SVOASIM

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P1848-03MSD	Client Sample ID:	E0LY4MSD					DataFile:	BN030510.D		
1,4-Dioxane	2.1	0.04	0.81	ug/L	37		6		15	120	50
Naphthalene	0.41		0.36	ug/L	88		3	*	0	0	0
1-Methylnaphthalene	0.41		0.44	ug/L	107		5	*	0	0	0
2-Methylnaphthalene	0.41		0.42	ug/L	102		2	*	0	0	0
Acenaphthylene	0.41		0.39	ug/L	95		5	*	0	0	0
Acenaphthene	0.41		0.46	ug/L	112		5		46	118	31
Fluorene	0.41		0.41	ug/L	100		2	*	0	0	0
Pentachlorophenol	0.82		1.6	ug/L	195	*	6		9	103	50
Phenanthrene	0.41		0.44	ug/L	107		2	*	0	0	0
Anthracene	0.41		0.45	ug/L	110		5	*	0	0	0
Fluoranthene	0.41		0.52	ug/L	127		17	*	0	0	0
Pyrene	0.41		0.54	ug/L	132	*	14		26	127	31
Benzo(a)anthracene	0.41		0.49	ug/L	120		4	*	0	0	0
Chrysene	0.41		0.44	ug/L	107		5	*	0	0	0
Benzo(b)fluoranthene	0.41		0.43	ug/L	105		0		0	0	0
Benzo(k)fluoranthene	0.41		0.41	ug/L	100		0		0	0	0
Benzo(a)pyrene	0.41		0.45	ug/L	110		5	*	0	0	0
Indeno(1,2,3-cd)pyrene	0.41		0.49	ug/L	120		18	*	0	0	0
Dibenzo(a,h)anthracene	0.41		0.49	ug/L	120		18	*	0	0	0
Benzo(g,h,i)perylene	0.41		0.46	ug/L	112		19	*	0	0	0



Surrogate Summary
SW-846

SDG No.: BN032724

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1848-01	E0LY4	BN030508.D	1,4-Dioxane-d8	8	5.09	64		15	120
			Fluoranthene-d10	0.4	0.42	105		30	130
			2-Methylnaphthalene-d10	0.4	0.35	88		30	130
P1848-02MS	E0LY4MS	BN030509.D	1,4-Dioxane-d8	0.8	0.25	31		15	120
			Fluoranthene-d10	0.4	0.43	108		30	130
			2-Methylnaphthalene-d10	0.4	0.33	83		30	130
P1848-03MSD	E0LY4MSD	BN030510.D	1,4-Dioxane-d8	0.8	0.26	32		15	120
			Fluoranthene-d10	0.4	0.51	128		30	130
			2-Methylnaphthalene-d10	0.4	0.34	86		30	130
PB159784BL	PB159784BL	BN030506.D	1,4-Dioxane-d8	8	5.28	66		15	120
			Fluoranthene-d10	0.4	0.36	89		30	130
			2-Methylnaphthalene-d10	0.4	0.28	71		30	130
PB159784BS	PB159784BS	BN030513.D	1,4-Dioxane-d8	0.8	0.77	97		15	120
			Fluoranthene-d10	0.4	0.39	97		30	130
			2-Methylnaphthalene-d10	0.4	0.40	99		30	130



Surrogate Summary
SW-846

SDG No.: BN032724

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P1848-04	E0LY6	BN030511.D	1,4-Dioxane-d8	8	4.45	56		15	120
			Fluoranthene-d10	0.4	0.34	85		30	130
			2-Methylnaphthalene-d10	0.4	0.33	82		30	130
P1848-05	E0LY7	BN030512.D	1,4-Dioxane-d8	8	4.16	52		15	120
			Fluoranthene-d10	0.4	0.38	96		30	130
			2-Methylnaphthalene-d10	0.4	0.34	86		30	130
PB159786BL	PB159786BL	BN030507.D	1,4-Dioxane-d8	8	5.55	69		15	120
			Fluoranthene-d10	0.4	0.35	88		30	130
			2-Methylnaphthalene-d10	0.4	0.30	74		30	130
PB159786BS	PB159786BS	BN030514.D	1,4-Dioxane-d8	0.8	0.80	100		15	120
			Fluoranthene-d10	0.4	0.40	100		30	130
			2-Methylnaphthalene-d10	0.4	0.40	101		30	130



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BN032724Lab Code: CHEMSAS No.: BN032724 SDG NO.: BN032724Lab File ID: BN030498.DDFTPP Injection Date: 03/27/2024Instrument ID: BNA_NDFTPP Injection Time: 10:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	40.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	50.8
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	25.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	64.2
443	15.0 - 24.0% of mass 442	11.5 (18) 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
SSTD0.1209	SSTD0.180	BN030499.D	03/27/2024	11:28
SSTD0.2210	SSTD0.281	BN030500.D	03/27/2024	12:04
SSTD0.4211	SSTD0.482	BN030501.D	03/27/2024	12:40
SSTD0.8212	SSTD0.883	BN030502.D	03/27/2024	13:16
SSTD1.6213	SSTD1.684	BN030503.D	03/27/2024	13:52
SSTD3.2214	SSTD3.285	BN030504.D	03/27/2024	14:29
SICV215	SSTDICV0.4	BN030505.D	03/27/2024	15:05
SBLK784	PB159784BL	BN030506.D	03/27/2024	15:41
SBLK786	PB159786BL	BN030507.D	03/27/2024	16:17
E0LY4	P1848-01	BN030508.D	03/27/2024	16:54
E0LY4MS	P1848-02MS	BN030509.D	03/27/2024	17:30
E0LY4MSD	P1848-03MSD	BN030510.D	03/27/2024	18:07
E0LY6	P1848-04	BN030511.D	03/27/2024	18:43
E0LY7	P1848-05	BN030512.D	03/27/2024	19:19
SLCS784	PB159784BS	BN030513.D	03/27/2024	19:55
SLCS786	PB159786BS	BN030514.D	03/27/2024	20:32
SSTD0.4365	SSTDCCC0.4EC	BN030515.D	03/27/2024	21:44