

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN091724 SAS No.: BN091724 SDG No.: BN091724

Instrument ID: BNA_N Calibration Date/Time: 9/17/2024 11:22

Lab File ID: BN034016.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4313 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.456	0.398	0.010	-12.7354	40.0
1,4-Dioxane-d8	0.411	0.335	0.010	-18.6495	40.0
Naphthalene	1.070	1.085	0.600	1.4138	30.0
1-Methylnaphthalene	0.697	0.690	0.300	-1.0739	30.0
2-Methylnaphthalene	0.678	0.673	0.300	-0.6581	30.0
Acenaphthylene	1.817	1.853	0.900	2.0177	30.0
Acenaphthene	1.311	1.435	0.500	9.4142	30.0
Fluorene	1.465	1.641	0.700	11.9564	30.0
Pentachlorophenol	0.126	0.128	0.010	1.6711	50.0
Phenanthrene	1.180	1.199	0.300	1.6509	30.0
Anthracene	1.061	1.144	0.400	7.8627	30.0
Fluoranthene	1.578	1.624	0.400	2.9191	30.0
Pyrene	1.675	1.757	0.500	4.8855	30.0
Benzo (a) anthracene	1.575	1.585	0.400	0.6674	30.0
Chrysene	1.591	1.591	0.400	0.0238	30.0
Benzo (b) fluoranthene	1.553	1.482	0.200	-4.5786	30.0
Benzo (k) fluoranthene	1.553	1.514	0.200	-2.5056	30.0
Benzo (a) pyrene	1.247	1.246	0.200	-0.0884	30.0
Indeno (1,2,3-cd) pyrene	1.873	1.684	0.200	-10.0684	30.0
Dibenzo (a,h) anthracene	1.454	1.313	0.200	-9.7498	30.0
Benzo (g,h,i) perylene	1.463	1.350	0.200	-7.7272	30.0
Fluoranthene-d10	1.192	1.290	0.400	8.1744	30.0
2-Methylnaphthalene-d10	0.574	0.572	0.300	-0.3523	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.: BN091724 SAS No.: BN091724 SDG No.: BN091724

Instrument ID: BNA_N Calibration Date/Time: 9/17/2024 1:15:05

Lab File ID: BN034019.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4314 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.456	0.351	0.010	-23.1645	50.0
1,4-Dioxane-d8	0.411	0.332	0.010	-19.2516	50.0
Naphthalene	1.070	1.113	0.600	4.0514	50.0
1-Methylnaphthalene	0.697	0.712	0.300	2.1038	50.0
2-Methylnaphthalene	0.678	0.682	0.300	0.6884	50.0
Acenaphthylene	1.817	1.851	0.900	1.8801	50.0
Acenaphthene	1.311	1.480	0.500	12.8643	50.0
Fluorene	1.465	1.271	0.700	-13.2383	50.0
Pentachlorophenol	0.126	0.120	0.010	-4.3837	50.0
Phenanthrene	1.180	1.141	0.300	-3.2969	50.0
Anthracene	1.061	1.054	0.400	-0.5898	50.0
Fluoranthene	1.578	1.545	0.400	-2.0817	50.0
Pyrene	1.675	1.668	0.500	-0.4475	50.0
Benzo (a) anthracene	1.575	1.556	0.400	-1.1868	50.0
Chrysene	1.591	1.605	0.400	0.9156	50.0
Benzo (b) fluoranthene	1.553	1.444	0.200	-6.9833	50.0
Benzo (k) fluoranthene	1.553	1.577	0.200	1.5252	50.0
Benzo (a) pyrene	1.247	1.222	0.200	-1.9606	50.0
Indeno (1,2,3-cd) pyrene	1.873	1.713	0.200	-8.5319	50.0
Dibenzo (a,h) anthracene	1.454	1.320	0.200	-9.2736	50.0
Benzo (g,h,i) perylene	1.463	1.361	0.200	-6.996	50.0
Fluoranthene-d10	1.192	1.241	0.400	4.0397	50.0
2-Methylnaphthalene-d10	0.574	0.568	0.300	-1.0847	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	9/16/2024 12:00:00 AM
Project:		Date Received:	9/16/2024 12:00:00 AM
Client Sample ID:	SBLK443	SDG No.:	BN091724
Lab Sample ID:	PB163443BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	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
BN034017.D	1	9/16/2024 12:00:00 AM	9/17/2024 12:00:00 AM	PB163443

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.2	U	2.2	0	13	ug/Kg
91-20-3	Naphthalene	0.74	U	0.74	1.7	6.6	ug/Kg
90-12-0	1-Methylnaphthalene	1.7	U	1.7	1.7	6.6	ug/Kg
91-57-6	2-Methylnaphthalene	0.68	U	0.68	1.7	6.6	ug/Kg
208-96-8	Acenaphthylene	0.94	U	0.94	1.7	6.6	ug/Kg
83-32-9	Acenaphthene	0.78	U	0.78	1.7	6.6	ug/Kg
86-73-7	Fluorene	1.4	U	1.4	1.7	6.6	ug/Kg
87-86-5	Pentachlorophenol	2.8	U	2.8	3.4	13	ug/Kg
85-01-8	Phenanthrene	1	U	1	1.7	6.6	ug/Kg
120-12-7	Anthracene	1	U	1	1.7	6.6	ug/Kg
206-44-0	Fluoranthene	1.4	U	1.4	1.7	6.6	ug/Kg
129-00-0	Pyrene	1	U	1	1.7	6.6	ug/Kg
56-55-3	Benzo(a)anthracene	0.84	U	0.84	1.7	6.6	ug/Kg
218-01-9	Chrysene	0.84	U	0.84	1.7	6.6	ug/Kg
205-99-2	Benzo(b)fluoranthene	0.42	U	0.42	1.7	6.6	ug/Kg
207-08-9	Benzo(k)fluoranthene	0.78	U	0.78	1.7	6.6	ug/Kg
50-32-8	Benzo(a)pyrene	0.72	U	0.72	1.7	6.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.7	U	1.7	1.7	6.6	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1.8	U	1.8	1.7	6.6	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2	U	2	1.7	6.6	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	1.552		15-120		19	SPK: -8
93951-69-0	Fluoranthene-d10	0.576	*	30-130		144	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.696	*	20-140		174	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5266		7.473			
1146-65-2	Naphthalene-d8	14353		10.228			
15067-26-2	Acenaphthene-d10	7091		14.119			

Report of Analysis

Client:		Date Collected:	9/16/2024 12:00:00 AM
Project:		Date Received:	9/16/2024 12:00:00 AM
Client Sample ID:	SBLK443	SDG No.:	BN091724
Lab Sample ID:	PB163443BL	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	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
BN034017.D	1	9/16/2024 12:00:00 AM	9/17/2024 12:00:00 AM	PB163443

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	14357	16.872				
1719-03-5	Chrysene-d12	15633	21.092				
1520-96-3	Perylene-d12	13376	23.234				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	2.2	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	7/29/2024 12:00:00 AM
Project:		Date Received:	7/29/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT3-2024-06	SDG No.:	BN091724
Lab Sample ID:	P3391-04	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	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
BN034018.D	1	9/16/2024 12:00:00 AM	9/17/2024 12:00:00 AM	PB163443

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5	J	2.2	0	13	ug/Kg
91-20-3	Naphthalene	4.9	J	0.74	1.7	6.6	ug/Kg
90-12-0	1-Methylnaphthalene	4.5	J	1.7	1.7	6.6	ug/Kg
91-57-6	2-Methylnaphthalene	4.6	J	0.68	1.7	6.6	ug/Kg
208-96-8	Acenaphthylene	4.5	J	0.94	1.7	6.6	ug/Kg
83-32-9	Acenaphthene	5.1	J	0.78	1.7	6.6	ug/Kg
86-73-7	Fluorene	4.6	J	1.4	1.7	6.6	ug/Kg
87-86-5	Pentachlorophenol	4.5	J	2.8	3.4	13	ug/Kg
85-01-8	Phenanthrene	4.4	J	1	1.7	6.6	ug/Kg
120-12-7	Anthracene	4	J	1	1.7	6.6	ug/Kg
206-44-0	Fluoranthene	5.1	J	1.4	1.7	6.6	ug/Kg
129-00-0	Pyrene	5.3	J	1	1.7	6.6	ug/Kg
56-55-3	Benzo(a)anthracene	4.2	J	0.84	1.7	6.6	ug/Kg
218-01-9	Chrysene	4.9	J	0.84	1.7	6.6	ug/Kg
205-99-2	Benzo(b)fluoranthene	5.5	J	0.42	1.7	6.6	ug/Kg
207-08-9	Benzo(k)fluoranthene	6.7		0.78	1.7	6.6	ug/Kg
50-32-8	Benzo(a)pyrene	4.9	J	0.72	1.7	6.6	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	4	J	1.7	1.7	6.6	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	4	J	1.8	1.7	6.6	ug/Kg
191-24-2	Benzo(g,h,i)perylene	4.3	J	2	1.7	6.6	ug/Kg
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.748	*	15-120		9	SPK: -8
93951-69-0	Fluoranthene-d10	0.896	*	30-130		224	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.726	*	20-140		182	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7333		7.473			
1146-65-2	Naphthalene-d8	19429		10.228			
15067-26-2	Acenaphthene-d10	8926		14.119			

Report of Analysis

Client:		Date Collected:	7/29/2024 12:00:00 AM
Project:		Date Received:	7/29/2024 12:00:00 AM
Client Sample ID:	MDL-SOIL-QT3-2024-06	SDG No.:	BN091724
Lab Sample ID:	P3391-04	Matrix:	Solid
Analytical Method:	SFAM_SVOASIM	% Moisture:	0
Sample Wt/Vol:	30 Units: g	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
BN034018.D	1	9/16/2024 12:00:00 AM	9/17/2024 12:00:00 AM	PB163443

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	17133	16.872				
1719-03-5	Chrysene-d12	12173	21.095				
1520-96-3	Perylene-d12	9566	23.237				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	2.2	U			99	ug/Kg

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	SP6631	SDG No.:	BN091724
Lab Sample ID:	SP6631	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000000 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
BN034020.D	1		9/17/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	31	U	31	0	200	ug/L
91-20-3	Naphthalene	11	U	11	50	100	ug/L
90-12-0	1-Methylnaphthalene	24	U	24	50	100	ug/L
91-57-6	2-Methylnaphthalene	11	U	11	50	100	ug/L
208-96-8	Acenaphthylene	14	U	14	50	100	ug/L
83-32-9	Acenaphthene	13	U	13	50	100	ug/L
86-73-7	Fluorene	22	U	22	50	100	ug/L
87-86-5	Pentachlorophenol	41	U	41	100	200	ug/L
85-01-8	Phenanthrene	14	U	14	50	100	ug/L
120-12-7	Anthracene	11	U	11	50	100	ug/L
206-44-0	Fluoranthene	22	U	22	50	100	ug/L
129-00-0	Pyrene	16	U	16	50	100	ug/L
56-55-3	Benzo(a)anthracene	15	U	15	50	100	ug/L
218-01-9	Chrysene	14	U	14	50	100	ug/L
205-99-2	Benzo(b)fluoranthene	4	U	4	50	100	ug/L
207-08-9	Benzo(k)fluoranthene	19	U	19	50	100	ug/L
50-32-8	Benzo(a)pyrene	12	U	12	50	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	23	U	23	50	100	ug/L
53-70-3	Dibenzo(a,h)anthracene	26	U	26	50	100	ug/L
191-24-2	Benzo(g,h,i)perylene	25	U	25	50	100	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	18081	*	15-120		226013	SPK: -8
93951-69-0	Fluoranthene-d10	892	*	30-130		223000	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	808	*	30-130		202000	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4871		7.468			
1146-65-2	Naphthalene-d8	13506		10.228			
15067-26-2	Acenaphthene-d10	7210		14.119			

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	SP6631			SDG No.:	BN091724		
Lab Sample ID:	SP6631			Matrix:	Water		
Analytical Method:	SFAM_SVOASIM			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000	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
BN034020.D	1		9/17/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	20182	16.872				
1719-03-5	Chrysene-d12	10129	21.094				
1520-96-3	Perylene-d12	8880	23.234				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	31	U			99	ug/L

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	SP6632			SDG No.:	BN091724		
Lab Sample ID:	SP6632			Matrix:	Water		
Analytical Method:	SFAM_SVOASIM			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000	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
BN034021.D	1		9/17/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	31	U	31	0	200	ug/L
91-20-3	Naphthalene	11	U	11	50	100	ug/L
90-12-0	1-Methylnaphthalene	24	U	24	50	100	ug/L
91-57-6	2-Methylnaphthalene	11	U	11	50	100	ug/L
208-96-8	Acenaphthylene	14	U	14	50	100	ug/L
83-32-9	Acenaphthene	13	U	13	50	100	ug/L
86-73-7	Fluorene	22	U	22	50	100	ug/L
87-86-5	Pentachlorophenol	41	U	41	100	200	ug/L
85-01-8	Phenanthrene	14	U	14	50	100	ug/L
120-12-7	Anthracene	11	U	11	50	100	ug/L
206-44-0	Fluoranthene	22	U	22	50	100	ug/L
129-00-0	Pyrene	16	U	16	50	100	ug/L
56-55-3	Benzo(a)anthracene	15	U	15	50	100	ug/L
218-01-9	Chrysene	14	U	14	50	100	ug/L
205-99-2	Benzo(b)fluoranthene	4	U	4	50	100	ug/L
207-08-9	Benzo(k)fluoranthene	19	U	19	50	100	ug/L
50-32-8	Benzo(a)pyrene	12	U	12	50	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	23	U	23	50	100	ug/L
53-70-3	Dibenzo(a,h)anthracene	26	U	26	50	100	ug/L
191-24-2	Benzo(g,h,i)perylene	25	U	25	50	100	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	1880	*	15-120		23500	SPK: -8
93951-69-0	Fluoranthene-d10	1053	*	30-130		263250	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	755	*	30-130		188750	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4419		7.473			
1146-65-2	Naphthalene-d8	17999		10.233			
15067-26-2	Acenaphthene-d10	8972		14.119			

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	SP6632			SDG No.:	BN091724		
Lab Sample ID:	SP6632			Matrix:	Water		
Analytical Method:	SFAM_SVOASIM			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000	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
BN034021.D	1		9/17/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	18885	16.877				
1719-03-5	Chrysene-d12	11927	21.097				
1520-96-3	Perylene-d12	11484	23.237				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	31	U			99	ug/L

Hit Summary Sheet SW-846

SDG No.: BN091724

Client:

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MDL-SOIL-QT3-2024-06								
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Total Alkanes	*	0.000	2.2	13	ug/Kg
			Total Tics :			0.00		
P3391-04	MDL-SOIL-QT3-2024-06	Solid	1,4-Dioxane		5.000	J 2.2	13	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	1-Methylnaphthalene		4.500	J 1.7	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	2-Methylnaphthalene		4.600	J 0.68	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Acenaphthene		5.100	J 0.78	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Acenaphthylene		4.500	J 0.94	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Anthracene		4.000	J 1	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Benzo(a)anthracene		4.200	J 0.84	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Benzo(a)pyrene		4.900	J 0.72	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Benzo(b)fluoranthene		5.500	J 0.42	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Benzo(g,h,i)perylene		4.300	J 2	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Benzo(k)fluoranthene		6.700	0.78	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Chrysene		4.900	J 0.84	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Dibenzo(a,h)anthracene		4.000	J 1.8	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Fluoranthene		5.100	J 1.4	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Fluorene		4.600	J 1.4	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Indeno(1,2,3-cd)pyrene		4.000	J 1.7	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Naphthalene		4.900	J 0.74	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Pentachlorophenol		4.500	J 2.8	13	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Phenanthrene		4.400	J 1	6.6	ug/Kg
P3391-04	MDL-SOIL-QT3-2024-06	Solid	Pyrene		5.300	J 1	6.6	ug/Kg
			Total Svoc :			95.00		
			Total Concentration:			95.00		
Client ID : SP6631								
SP6631	SP6631	Water	Total Alkanes	*	0.000	31	200	ug/L
			Total Tics :			0.00		
			Total Concentration:			0.00		
Client ID : SP6632								
SP6632	SP6632	Water	Total Alkanes	*	0.000	31	200	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.: BN082724 SAS No.: BN082724 SDG No.: BN082724
Instrument ID: _____ Calibration Date(s): 8/27/2024 : _____
Calibration Time(s): 11:11 _____

LAB FILE ID:		RRFAL1 = BN033630.D			RRFAL2 = BN033631.D		RRFAL3 = BN033632.D	
		RRFAL4 = BN033633.D			RRFAL5 = BN033634.D		RRFAL6 = BN033635.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.431	0.466	0.456	0.462	0.466	0.456	3.2
1,4-Dioxane-d8		0.401	0.416	0.418	0.407	0.414	0.411	1.8
Naphthalene	1.091	1.065	1.051	1.093	1.048		1.070	2.0
1-Methylnaphthalene	0.714	0.694	0.690	0.701	0.686		0.697	1.6
2-Methylnaphthalene	0.692	0.670	0.668	0.689	0.670		0.678	1.7
Acenaphthylene	1.867	1.787	1.811	1.821	1.797		1.817	1.7
Acenaphthene	1.337	1.286	1.321	1.328	1.284		1.311	1.9
Fluorene	1.484	1.440	1.485	1.469	1.449		1.465	1.4
Pentachlorophenol		0.126	0.117	0.122	0.127	0.137	0.126	5.8
Phenanthrene	1.278	1.166	1.111	1.194	1.150		1.180	5.3
Anthracene	1.084	1.054	1.009	1.082	1.073		1.061	3.0
Fluoranthene	1.746	1.573	1.488	1.548	1.536		1.578	6.3
Pyrene	1.871	1.684	1.579	1.636	1.606		1.675	6.9
Benzo(a)anthracene	1.790	1.605	1.476	1.490	1.514		1.575	8.3
Chrysene	1.874	1.628	1.481	1.500	1.471		1.591	10.7
Benzo(b)fluoranthene	1.812	1.530	1.451	1.544	1.426		1.553	9.9
Benzo(k)fluoranthene	1.811	1.560	1.433	1.492	1.471		1.553	9.7
Benzo(a)pyrene	1.392	1.240	1.158	1.237	1.206		1.247	7.0
Indeno(1,2,3-cd)pyrene	2.186	1.873	1.728	1.842	1.735		1.873	9.9
Dibenzo(a,h)anthracene	1.682	1.466	1.340	1.430	1.354		1.454	9.5
Benzo(g,h,i)perylene	1.693	1.462	1.354	1.457	1.352		1.463	9.5
Fluoranthene-d10	1.218	1.193	1.154	1.197	1.200		1.192	2.0
2-Methylnaphthalene-d10	0.590	0.571	0.566	0.576	0.566		0.574	1.7

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.: BN091724 SAS No.: BN091724 SDG NO.: BN091724

EPA Sample No.: SSTD0.4204 Date Analyzed: Sep 17 2024 12:00AM

Lab File ID: BN033632.D Time Analyzed: 11:58

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	5619	7.54	15327	10.30	7957	14.18
UPPER LIMIT	11238	8.04	30654	10.798	15914	14.678
LOWER LIMIT	2809.5	7.04	7663.5	9.798	3978.5	13.678
EPA SAMPLE NO.						
01 SBLK443	5266	7.47	14353	10.23	7091	14.12
02 MDL-SOIL-QT3-2024-06	7333	7.47	19429	10.23	8926	14.12
03 SP6631	4871	7.47	13506	10.23	7210	14.12
04 SP6632	4419	7.47	17999	10.23	8972	14.12

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.: BN091724 SAS No.: BN091724 SDG NO.: BN091724

EPA Sample No.: SSTD0.4313 Date Analyzed: Sep 17 2024 12:00AM

Lab File ID: BN034016.D Time Analyzed: 11:58

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	6929	7.468	13753	10.23	10462	14.11
UPPER LIMIT	13858	7.968	27506	10.728	20924	14.614
LOWER LIMIT	3464.5	6.968	6876.5	9.728	5231	13.614
EPA SAMPLE NO.						
01 SBLK443	5266	7.47	14353	10.23	7091	14.12
02 MDL-SOIL-QT3-2024-06	7333	7.47	19429	10.23	8926	14.12

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.: BN091724 SAS No.: BN091724 SDG NO.: BN091724

EPA Sample No.: SSTD0.4314 Date Analyzed: Sep 17 2024 12:00AM

Lab File ID: BN034019.D Time Analyzed: 15:46

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	7068	7.468	18900	10.22	9155	14.11
UPPER LIMIT	14136	7.968	37800	10.722	18310	14.614
LOWER LIMIT	3534	6.968	9450	9.722	4577.5	13.614
EPA SAMPLE NO.						
01 SP6631	4871	7.47	13506	10.23	7210	14.12
02 SP6632	4419	7.47	17999	10.23	8972	14.12

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.: BN091724 SAS No.: BN091724 SDG NO.: BN091724

EPA Sample No.: SSTD0.4204 Date Analyzed: Sep 17 2024 12:00AM

Lab File ID: BN033632.D Time Analyzed: 11:58

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	16648	16.93	14141	21.137	15253	23.3
UPPER LIMIT	33296	17.43	28282	21.637	30506	23.8
LOWER LIMIT	8324	16.43	7070.5	20.637	7626.5	22.8
EPA SAMPLE NO.						
01 SBLK443	14357	16.87	15633	21.09	13376	23.23
02 MDL-SOIL-QT3-2024-06	17133	16.87	12173	21.10	9566	23.24
03 SP6631	20182	16.87	10129	21.09	8880	23.23
04 SP6632	18885	16.88	11927	21.10	11484	23.24

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.: BN091724 SAS No.: BN091724 SDG NO.: BN091724

EPA Sample No.: SSTD0.4313 Date Analyzed: Sep 17 2024 12:00AM

Lab File ID: BN034016.D Time Analyzed: 11:58

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	22680	16.872	13429	21.095	14223	23.234
UPPER LIMIT	45360	17.372	26858	21.595	28446	23.734
LOWER LIMIT	11340	16.372	6714.5	20.595	7111.5	22.734
EPA SAMPLE NO.						
01 SBLK443	14357	16.87	15633	21.09	13376	23.23
02 MDL-SOIL-QT3-2024-06	17133	16.87	12173	21.10	9566	23.24

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.: BN091724 SAS No.: BN091724 SDG NO.: BN091724

EPA Sample No.: SSTD0.4314 Date Analyzed: Sep 17 2024 12:00AM

Lab File ID: BN034019.D Time Analyzed: 15:46

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	14011	16.872	12237	21.092	13314	23.234
UPPER LIMIT	28022	17.372	24474	21.592	26628	23.734
LOWER LIMIT	7005.5	16.372	6118.5	20.592	6657	22.734
EPA SAMPLE NO.						
01 SP6631	20182	16.87	10129	21.09	8880	23.23
02 SP6632	18885	16.88	11927	21.10	11484	23.24

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.

SP6631

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN091724

SAS No.: BN091724 SDG NO.: BN091724

Lab File ID: BN034020.D

Lab Sample ID: SP6631

Instrument ID: BNA_N

Date Extracted: _____

Matrix: (soil/water) Water

Date Analyzed: 09/17/2024

Level: (low/med) LOW

Time Analyzed: 15:46

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SP6631	SP6631	BN034020.D	09/17/2024
SP6632	SP6632	BN034021.D	09/17/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK443

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN091724

SAS No.: BN091724 SDG NO.: BN091724

Lab File ID: BN034017.D

Lab Sample ID: PB163443BL

Instrument ID: BNA_N

Date Extracted: 09/16/2024

Matrix: (soil/water) Solid

Date Analyzed: 09/17/2024

Level: (low/med) LOW

Time Analyzed: 11:58

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MDL-SOIL-QT3-2024-06	P3391-04	BN034018.D	09/17/2024

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: BN091724

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SP6631	SP6631	BN034020.D	1,4-Dioxane-d8	8	18,081.00	226013	*	15	120
			Fluoranthene-d10	0.4	892.00	223000	*	30	130
			2-Methylnaphthalene-d10	0.4	808.00	202000	*	30	130
SP6632	SP6632	BN034021.D	1,4-Dioxane-d8	8	1,880.00	23500	*	15	120
			Fluoranthene-d10	0.4	1,053.00	263250	*	30	130
			2-Methylnaphthalene-d10	0.4	755.00	188750	*	30	130

Surrogate Summary

SW-846

SDG No.: BN091724

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P3391-04	MDL-SOIL-QT3-2(BN034018.D		1,4-Dioxane-d8	8	0.75	9	*	15	120
			Fluoranthene-d10	0.4	0.90	224	*	30	130
			2-Methylnaphthalene-d10	0.4	0.73	182	*	20	140
PB163443BL	PB163443BL	BN034017.D	1,4-Dioxane-d8	8	1.55	19		15	120
			Fluoranthene-d10	0.4	0.58	144	*	30	130
			2-Methylnaphthalene-d10	0.4	0.70	174	*	20	140

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN091724

Lab Code: CHEM

SAS No.: BN091724 SDG NO.: BN091724

Lab File ID: BN034015.D

DFTPP Injection Date: 09/17/2024

Instrument ID: BNA_N

DFTPP Injection Time: 08:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.7
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	44.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	52.4
197	Less than 2.0% of mass 198	0.3
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	25.3
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	9.4
442	Greater than 50% of mass 198	57.5
443	15.0 - 24.0% of mass 442	11.5 (19.9) 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
SSTD0.4313	SSTDCCC0.4	BN034016.D	09/17/2024	11:22
SBLK443	PB163443BL	BN034017.D	09/17/2024	11:58
MDL-SOIL-QT3-2024-06	P3391-04	BN034018.D	09/17/2024	12:34
SSTD0.4314	SSTDCCC0.4EC	BN034019.D	09/17/2024	15:05
SP6631	SP6631	BN034020.D	09/17/2024	15:46
SP6632	SP6632	BN034021.D	09/17/2024	16:22