



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM121421 SAS No.: BM121421 SDG No.: BM121421
Instrument ID: BNA_M Calibration Date/Time: 12/14/2021 : 23:37
Lab File ID: BM033454.D Init. Calib. Date(s): _____
EPA Sample No.: SSTD0.4187 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.424	0.409	0.010	-3.412	40.0
1,4-Dioxane-d8	0.324	0.332	0.010	2.5072	25.0
Naphthalene	1.464	1.358	0.600	-7.2026	30.0
1-Methylnaphthalene	0.862	0.875	0.300	1.6097	30.0
2-Methylnaphthalene	0.834	0.827	0.300	-0.9188	30.0
Acenaphthylene	2.238	1.997	0.900	-10.7745	30.0
Acenaphthene	1.757	1.605	0.500	-8.6362	30.0
Fluorene	1.879	1.784	0.700	-5.0505	30.0
Pentachlorophenol	0.144	0.159	0.010	10.8001	50.0
Phenanthrene	1.306	1.202	0.300	-7.9813	30.0
Anthracene	1.153	1.090	0.400	-5.4122	30.0
Fluoranthene	1.053	1.093	0.400	3.8058	30.0
Pyrene	1.160	1.174	0.500	1.1408	30.0
Benzo(a)anthracene	0.890	0.938	0.400	5.3361	30.0
Chrysene	1.111	1.099	0.400	-1.0729	30.0
Benzo(b)fluoranthene	1.063	1.106	0.200	4.026	30.0
Benzo(k)fluoranthene	1.221	1.207	0.200	-1.1644	30.0
Benzo(a)pyrene	1.025	0.973	0.200	-5.0267	30.0
Indeno(1,2,3-cd)pyrene	1.145	1.177	0.200	2.7907	30.0
Dibenzo(a,h)anthracene	0.948	0.980	0.200	3.3552	30.0
Benzo(g,h,i)perylene	1.031	1.032	0.200	0.0794	30.0
Fluoranthene-d10	0.871	0.917	0.400	5.2856	30.0
2-Methylnaphthalene-d10	0.505	0.560	0.300	10.8878	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.: BM121421 SAS No.: BM121421 SDG No.: BM121421
Instrument ID: BNA_M Calibration Date/Time: 12/14/2021 : 17:37
Lab File ID: BM033445.D Init. Calib. Date(s): _____
EPA Sample No.: SICV028 Init. Calib. Time(s): _____
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.424	0.443	0.010	4.5224	40.0
1,4-Dioxane-d8	0.324	0.373	0.010	15.1928	25.0
Naphthalene	1.464	1.408	0.600	-3.7902	30.0
1-Methylnaphthalene	0.862	0.847	0.300	-1.7398	30.0
2-Methylnaphthalene	0.834	0.842	0.300	0.9451	30.0
Acenaphthylene	2.238	2.123	0.900	-5.132	30.0
Acenaphthene	1.757	1.651	0.500	-6.0243	30.0
Fluorene	1.879	1.789	0.700	-4.7896	30.0
Pentachlorophenol	0.144	0.123	0.010	-14.6276	50.0
Phenanthrene	1.306	1.262	0.300	-3.3757	30.0
Anthracene	1.153	1.147	0.400	-0.5115	30.0
Fluoranthene	1.053	1.037	0.400	-1.4534	30.0
Pyrene	1.160	1.159	0.500	-0.1634	30.0
Benzo(a)anthracene	0.890	0.879	0.400	-1.276	30.0
Chrysene	1.111	1.065	0.400	-4.1678	30.0
Benzo(b)fluoranthene	1.063	1.032	0.200	-2.9388	30.0
Benzo(k)fluoranthene	1.221	1.214	0.200	-0.5519	30.0
Benzo(a)pyrene	1.025	0.973	0.200	-5.0656	30.0
Indeno(1,2,3-cd)pyrene	1.145	1.127	0.200	-1.5757	30.0
Dibenzo(a,h)anthracene	0.948	0.911	0.200	-3.8452	30.0
Benzo(g,h,i)perylene	1.031	1.003	0.200	-2.6885	30.0
Fluoranthene-d10	0.871	0.878	0.400	0.888	30.0
2-Methylnaphthalene-d10	0.505	0.535	0.300	5.7883	30.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	12/9/2021 12:00:00 AM
Project:		Date Received:	12/9/2021 12:00:00 AM
Client Sample ID:	SBLK277	SDG No.:	BM121421
Lab Sample ID:	PB141277BL	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
BM033446.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.033	U	0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.023	U	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	6.26		15-120		78	SPK: -8
93951-69-0	Fluoranthene-d10	0.48		30-130		120	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.46		30-130		115	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	496		7.901			
1146-65-2	Naphthalene-d8	1251		10.688			
15067-26-2	Acenaphthene-d10	903		14.523			
1517-22-2	Phenanthrene-d10	2140		17.26			
1719-03-5	Chrysene-d12	2761		21.441			
1520-96-3	Perylene-d12	3475		23.742			



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Report of Analysis

Client:		Date Collected:	12/9/2021 12:00:00 AM
Project:		Date Received:	12/9/2021 12:00:00 AM
Client Sample ID:	SBLK277	SDG No.:	BM121421
Lab Sample ID:	PB141277BL	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
BM033446.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5P7	SDG No.:	BM121421
Lab Sample ID:	M4985-01	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM033447.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.56		0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.04	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.03	J	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.48		15-120		56	SPK: -8
93951-69-0	Fluoranthene-d10	0.45		30-130		113	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.38		30-130		95	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	662		7.901			
1146-65-2	Naphthalene-d8	1706		10.689			
15067-26-2	Acenaphthene-d10	1203		14.519			
1517-22-2	Phenanthrene-d10	3042		17.257			
1719-03-5	Chrysene-d12	4530		21.432			
1520-96-3	Perylene-d12	5160		23.735			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5P7	SDG No.:	BM121421
Lab Sample ID:	M4985-01	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
BM033447.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5S3	SDG No.:	BM121421
Lab Sample ID:	M4985-05	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
BM033448.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.5		0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.05	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.02		15-120		63	SPK: -8
93951-69-0	Fluoranthene-d10	0.52		30-130		130	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.45		30-130		113	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	675		7.901			
1146-65-2	Naphthalene-d8	1789		10.689			
15067-26-2	Acenaphthene-d10	1298		14.519			
1517-22-2	Phenanthrene-d10	3258		17.261			
1719-03-5	Chrysene-d12	4203		21.431			
1520-96-3	Perylene-d12	4700		23.737			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5S3	SDG No.:	BM121421
Lab Sample ID:	M4985-05	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
BM033448.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5P9	SDG No.:	BM121421
Lab Sample ID:	M4985-03	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
BM033449.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.5		0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.05	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.03	J	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.04	J	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.64		15-120		58	SPK: -8
93951-69-0	Fluoranthene-d10	0.53	*	30-130		132	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.43		30-130		108	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	638		7.901			
1146-65-2	Naphthalene-d8	1712		10.684			
15067-26-2	Acenaphthene-d10	1240		14.519			
1517-22-2	Phenanthrene-d10	3096		17.257			
1719-03-5	Chrysene-d12	4149		21.429			
1520-96-3	Perylene-d12	4742		23.735			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5P9	SDG No.:	BM121421
Lab Sample ID:	M4985-03	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
BM033449.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5S0	SDG No.:	BM121421
Lab Sample ID:	M4985-08	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
BM033450.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.033	U	0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.05	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.03	J	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.09		15-120		51	SPK: -8
93951-69-0	Fluoranthene-d10	0.5		30-130		125	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.42		30-130		105	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	686		7.901			
1146-65-2	Naphthalene-d8	1838		10.688			
15067-26-2	Acenaphthene-d10	1333		14.519			
1517-22-2	Phenanthrene-d10	3314		17.26			
1719-03-5	Chrysene-d12	4384		21.431			
1520-96-3	Perylene-d12	5036		23.737			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5S0	SDG No.:	BM121421
Lab Sample ID:	M4985-08	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
BM033450.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5M9	SDG No.:	BM121421
Lab Sample ID:	M4985-06	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
BM033451.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.6		0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.05	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.08	J	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.55		15-120		44	SPK: -8
93951-69-0	Fluoranthene-d10	0.47		30-130		117	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.43		30-130		108	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	689		7.898			
1146-65-2	Naphthalene-d8	1855		10.684			
15067-26-2	Acenaphthene-d10	1469		14.519			
1517-22-2	Phenanthrene-d10	3453		17.26			
1719-03-5	Chrysene-d12	4500		21.424			
1520-96-3	Perylene-d12	4967		23.732			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5M9	SDG No.:	BM121421
Lab Sample ID:	M4985-06	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
BM033451.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5P8	SDG No.:	BM121421
Lab Sample ID:	M4985-02	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
BM033452.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.3		0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.05	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.03	J	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.53		15-120		57	SPK: -8
93951-69-0	Fluoranthene-d10	0.51		30-130		127	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.43		30-130		108	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	726		7.901			
1146-65-2	Naphthalene-d8	1957		10.684			
15067-26-2	Acenaphthene-d10	1428		14.519			
1517-22-2	Phenanthrene-d10	3481		17.257			
1719-03-5	Chrysene-d12	4590		21.427			
1520-96-3	Perylene-d12	5059		23.728			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5P8	SDG No.:	BM121421
Lab Sample ID:	M4985-02	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
BM033452.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5R9	SDG No.:	BM121421
Lab Sample ID:	M4985-07	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
BM033453.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.033	U	0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.05	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.87		15-120		61	SPK: -8
93951-69-0	Fluoranthene-d10	0.53	*	30-130		132	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.43		30-130		108	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	645		7.901			
1146-65-2	Naphthalene-d8	1799		10.684			
15067-26-2	Acenaphthene-d10	1288		14.519			
1517-22-2	Phenanthrene-d10	3172		17.257			
1719-03-5	Chrysene-d12	4302		21.427			
1520-96-3	Perylene-d12	4860		23.732			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5R9	SDG No.:	BM121421
Lab Sample ID:	M4985-07	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
BM033453.D	1	12/9/2021 12:00:00 AM	12/14/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/9/2021 12:00:00 AM
Project:		Date Received:	12/9/2021 12:00:00 AM
Client Sample ID:	SBLK279	SDG No.:	BM121421
Lab Sample ID:	PB141279BL	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
BM033455.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.033	U	0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.023	U	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.6		15-120		70	SPK: -8
93951-69-0	Fluoranthene-d10	0.44		30-130		110	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.41		30-130		102	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	556		7.901			
1146-65-2	Naphthalene-d8	1480		10.684			
15067-26-2	Acenaphthene-d10	1074		14.519			
1517-22-2	Phenanthrene-d10	2569		17.257			
1719-03-5	Chrysene-d12	3285		21.436			
1520-96-3	Perylene-d12	3965		23.735			



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Report of Analysis

Client:		Date Collected:	12/9/2021 12:00:00 AM
Project:		Date Received:	12/9/2021 12:00:00 AM
Client Sample ID:	SBLK279	SDG No.:	BM121421
Lab Sample ID:	PB141279BL	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
BM033455.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/9/2021 12:00:00 AM
Project:		Date Received:	12/9/2021 12:00:00 AM
Client Sample ID:	SBLK291	SDG No.:	BM121421
Lab Sample ID:	PB141291BL	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
BM033456.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141291

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.033	U	0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.023	U	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.18		15-120		65	SPK: -8
93951-69-0	Fluoranthene-d10	0.41		30-130		102	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.4		30-130		100	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	657		7.898			
1146-65-2	Naphthalene-d8	1727		10.684			
15067-26-2	Acenaphthene-d10	1292		14.519			
1517-22-2	Phenanthrene-d10	3108		17.257			
1719-03-5	Chrysene-d12	3937		21.433			
1520-96-3	Perylene-d12	4616		23.734			



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Report of Analysis

Client:		Date Collected:	12/9/2021 12:00:00 AM
Project:		Date Received:	12/9/2021 12:00:00 AM
Client Sample ID:	SBLK291	SDG No.:	BM121421
Lab Sample ID:	PB141291BL	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
BM033456.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141291

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/8/2021 12:00:00 AM
Project:		Date Received:	12/8/2021 12:00:00 AM
Client Sample ID:	EW5Q9	SDG No.:	BM121421
Lab Sample ID:	M4985-18	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 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
BM033457.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141294

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	21		0.33	0	2	ug/L
91-20-3	Naphthalene	0.5	J	0.23	0.5	1	ug/L
90-12-0	1-Methylnaphthalene	0.23	U	0.23	0.5	1	ug/L
91-57-6	2-Methylnaphthalene	0.24	U	0.24	0.5	1	ug/L
208-96-8	Acenaphthylene	0.2	U	0.2	0.5	1	ug/L
83-32-9	Acenaphthene	0.19	U	0.19	0.5	1	ug/L
86-73-7	Fluorene	0.18	U	0.18	0.5	1	ug/L
87-86-5	Pentachlorophenol	0.26	U	0.26	1	2	ug/L
85-01-8	Phenanthrene	0.28	U	0.28	0.5	1	ug/L
120-12-7	Anthracene	0.22	U	0.22	0.5	1	ug/L
206-44-0	Fluoranthene	0.39	U	0.39	0.5	1	ug/L
129-00-0	Pyrene	0.42	U	0.42	0.5	1	ug/L
56-55-3	Benzo(a)anthracene	0.25	U	0.25	0.5	1	ug/L
218-01-9	Chrysene	0.28	U	0.28	0.5	1	ug/L
205-99-2	Benzo(b)fluoranthene	0.29	U	0.29	0.5	1	ug/L
207-08-9	Benzo(k)fluoranthene	0.26	U	0.26	0.5	1	ug/L
50-32-8	Benzo(a)pyrene	0.24	U	0.24	0.5	1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.23	U	0.23	0.5	1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.21	U	0.21	0.5	1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.23	U	0.23	0.5	1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	44.6	*	15-120		557	SPK: -8
93951-69-0	Fluoranthene-d10	5.4	*	30-130		1350	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	4.5	*	30-130		1125	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	662		7.901			
1146-65-2	Naphthalene-d8	1730		10.684			
15067-26-2	Acenaphthene-d10	1303		14.519			
1517-22-2	Phenanthrene-d10	3327		17.257			
1719-03-5	Chrysene-d12	4559		21.427			
1520-96-3	Perylene-d12	4239		23.735			



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Report of Analysis

Client:		Date Collected:	12/8/2021 12:00:00 AM
Project:		Date Received:	12/8/2021 12:00:00 AM
Client Sample ID:	EW5Q9	SDG No.:	BM121421
Lab Sample ID:	M4985-18	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	10000 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
BM033457.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141294

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.33	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5Q0	SDG No.:	BM121421
Lab Sample ID:	M4985-04	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
BM033458.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.7		0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.06	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.04	J	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.03	J	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.2		0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.03	J	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.1		0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.61		0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.23		0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.85		0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.72		0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.35		0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.23		0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.32		0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.09	J	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.27		0.024	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.12		0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.03	J	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.14		0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.55		15-120		44	SPK: -8
93951-69-0	Fluoranthene-d10	0.55	*	30-130		138	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.37		30-130		93	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	805		7.898			
1146-65-2	Naphthalene-d8	2082		10.684			
15067-26-2	Acenaphthene-d10	1492		14.519			
1517-22-2	Phenanthrene-d10	3813		17.257			
1719-03-5	Chrysene-d12	4271		21.422			
1520-96-3	Perylene-d12	3752		23.735			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5Q0	SDG No.:	BM121421
Lab Sample ID:	M4985-04	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
BM033458.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141277

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5R8	SDG No.:	BM121421
Lab Sample ID:	M4985-13	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
BM033459.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141291

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.033	0	0.2	ug/L
91-20-3	Naphthalene	3.7	E	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.52		0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.64		0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.04	J	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.2		15-120		52	SPK: -8
93951-69-0	Fluoranthene-d10	0.57	*	30-130		142	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.44		30-130		110	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	804		7.894			
1146-65-2	Naphthalene-d8	2275		10.684			
15067-26-2	Acenaphthene-d10	1797		14.515			
1517-22-2	Phenanthrene-d10	4263		17.257			
1719-03-5	Chrysene-d12	4674		21.424			
1520-96-3	Perylene-d12	4365		23.732			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5R8	SDG No.:	BM121421
Lab Sample ID:	M4985-13	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
BM033459.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141291

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5R8MS	SDG No.:	BM121421
Lab Sample ID:	M4985-14MS	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
BM033460.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141291

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.99		0.033	0	0.2	ug/L
91-20-3	Naphthalene	4.6	E	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.95		0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	1.1		0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.31		0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.32		0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.34		0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.88		0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.39		0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.39		0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.56		0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.53		0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.5		0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.44		0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.47		0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.44		0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.42		0.024	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.44		0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.45		0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.42		0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	2.94		15-120		37	SPK: -8
93951-69-0	Fluoranthene-d10	0.56	*	30-130		140	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.43		30-130		108	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	731		7.894			
1146-65-2	Naphthalene-d8	1983		10.684			
15067-26-2	Acenaphthene-d10	1520		14.519			
1517-22-2	Phenanthrene-d10	3548		17.257			
1719-03-5	Chrysene-d12	3771		21.421			
1520-96-3	Perylene-d12	3204		23.734			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5R8MS	SDG No.:	BM121421
Lab Sample ID:	M4985-14MS	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
BM033460.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141291

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5R8MSD	SDG No.:	BM121421
Lab Sample ID:	M4985-14MSD	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
BM033461.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141291

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1		0.033	0	0.2	ug/L
91-20-3	Naphthalene	4.9	E	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	1		0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	1.2		0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.33		0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.34		0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.38		0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.97		0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.42		0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.44		0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.57		0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.55		0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.54		0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.46		0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.52		0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.48		0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.45		0.024	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.45		0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.46		0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.43		0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	3.42		15-120		43	SPK: -8
93951-69-0	Fluoranthene-d10	0.57	*	30-130		142	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.44		30-130		110	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	681		7.894			
1146-65-2	Naphthalene-d8	1845		10.684			
15067-26-2	Acenaphthene-d10	1390		14.515			
1517-22-2	Phenanthrene-d10	3329		17.257			
1719-03-5	Chrysene-d12	3802		21.422			
1520-96-3	Perylene-d12	3137		23.735			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5R8MSD	SDG No.:	BM121421
Lab Sample ID:	M4985-14MSD	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
BM033461.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141291

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5S5	SDG No.:	BM121421
Lab Sample ID:	M4985-10	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
BM033462.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.033	U	0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.07	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.1		15-120		64	SPK: -8
93951-69-0	Fluoranthene-d10	0.67	*	30-130		168	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.49		30-130		123	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	752		7.894			
1146-65-2	Naphthalene-d8	2079		10.684			
15067-26-2	Acenaphthene-d10	1553		14.515			
1517-22-2	Phenanthrene-d10	3827		17.254			
1719-03-5	Chrysene-d12	4174		21.427			
1520-96-3	Perylene-d12	3886		23.735			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5S5	SDG No.:	BM121421
Lab Sample ID:	M4985-10	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
BM033462.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5S1	SDG No.:	BM121421
Lab Sample ID:	M4985-09	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
BM033463.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.033	U	0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.04	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.64		15-120		58	SPK: -8
93951-69-0	Fluoranthene-d10	0.53	*	30-130		132	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.45		30-130		113	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	782		7.898			
1146-65-2	Naphthalene-d8	2045		10.684			
15067-26-2	Acenaphthene-d10	1559		14.515			
1517-22-2	Phenanthrene-d10	3800		17.253			
1719-03-5	Chrysene-d12	4596		21.426			
1520-96-3	Perylene-d12	4329		23.735			



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Report of Analysis

Client:		Date Collected:	12/7/2021 12:00:00 AM
Project:		Date Received:	12/7/2021 12:00:00 AM
Client Sample ID:	EW5S1	SDG No.:	BM121421
Lab Sample ID:	M4985-09	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
BM033463.D	1	12/9/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141279

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Report of Analysis

Client:		Date Collected:	12/8/2021 12:00:00 AM
Project:		Date Received:	12/8/2021 12:00:00 AM
Client Sample ID:	EW5R6	SDG No.:	BM121421
Lab Sample ID:	M4985-20	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
BM033464.D	1	12/10/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.033	U	0.033	0	0.2	ug/L
91-20-3	Naphthalene	0.05	J	0.023	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.023	U	0.023	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.019	U	0.019	0.05	0.1	ug/L
86-73-7	Fluorene	0.018	U	0.018	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.026	U	0.026	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.028	U	0.028	0.05	0.1	ug/L
120-12-7	Anthracene	0.022	U	0.022	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.039	U	0.039	0.05	0.1	ug/L
129-00-0	Pyrene	0.042	U	0.042	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.025	U	0.025	0.05	0.1	ug/L
218-01-9	Chrysene	0.028	U	0.028	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.029	U	0.029	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.026	U	0.026	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.024	U	0.024	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	0.021	U	0.021	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.023	U	0.023	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	4.5		15-120		56	SPK: -8
93951-69-0	Fluoranthene-d10	0.64	*	30-130		160	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.47		30-130		117	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	806		7.898			
1146-65-2	Naphthalene-d8	2168		10.684			
15067-26-2	Acenaphthene-d10	1636		14.515			
1517-22-2	Phenanthrene-d10	3977		17.254			
1719-03-5	Chrysene-d12	4468		21.427			
1520-96-3	Perylene-d12	4157		23.73			



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Report of Analysis

Client:		Date Collected:	12/8/2021 12:00:00 AM
Project:		Date Received:	12/8/2021 12:00:00 AM
Client Sample ID:	EW5R6	SDG No.:	BM121421
Lab Sample ID:	M4985-20	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
BM033464.D	1	12/10/2021 12:00:00 AM	12/15/2021 12:00:00 AM	PB141312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.033	U			99	ug/L

Hit Summary Sheet SW-846

SDG No.: BM121421

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : EW5P7								
M4985-01	EW5P7	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		
M4985-01	EW5P7	Water	1,4-Dioxane		0.560	0.033	0.2	ug/L
M4985-01	EW5P7	Water	Naphthalene		0.040	J 0.023	0.1	ug/L
M4985-01	EW5P7	Water	Phenanthrene		0.030	J 0.028	0.1	ug/L
			Total Svoc :			0.63		
			Total Concentration:			0.63		
Client ID : EW5P8								
M4985-02	EW5P8	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		
M4985-02	EW5P8	Water	1,4-Dioxane		1.300	0.033	0.2	ug/L
M4985-02	EW5P8	Water	Naphthalene		0.050	J 0.023	0.1	ug/L
M4985-02	EW5P8	Water	Phenanthrene		0.030	J 0.028	0.1	ug/L
			Total Svoc :			1.38		
			Total Concentration:			1.38		
Client ID : EW5P9								
M4985-03	EW5P9	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		
M4985-03	EW5P9	Water	1,4-Dioxane		2.500	0.033	0.2	ug/L
M4985-03	EW5P9	Water	Fluoranthene		0.040	J 0.039	0.1	ug/L
M4985-03	EW5P9	Water	Naphthalene		0.050	J 0.023	0.1	ug/L
M4985-03	EW5P9	Water	Phenanthrene		0.030	J 0.028	0.1	ug/L
			Total Svoc :			2.62		
			Total Concentration:			2.62		
Client ID : EW5Q0								
M4985-04	EW5Q0	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		
M4985-04	EW5Q0	Water	1,4-Dioxane		0.700	0.033	0.2	ug/L
M4985-04	EW5Q0	Water	1-Methylnaphthalene		0.040	J 0.023	0.1	ug/L
M4985-04	EW5Q0	Water	2-Methylnaphthalene		0.030	J 0.024	0.1	ug/L
M4985-04	EW5Q0	Water	Acenaphthene		0.030	J 0.019	0.1	ug/L
M4985-04	EW5Q0	Water	Acenaphthylene		0.200	0.02	0.1	ug/L
M4985-04	EW5Q0	Water	Anthracene		0.230	0.022	0.1	ug/L
M4985-04	EW5Q0	Water	Benzo(a)anthracene		0.350	0.025	0.1	ug/L
M4985-04	EW5Q0	Water	Benzo(a)pyrene		0.270	0.024	0.1	ug/L
M4985-04	EW5Q0	Water	Benzo(b)fluoranthene		0.320	0.029	0.1	ug/L
M4985-04	EW5Q0	Water	Benzo(g,h,i)perylene		0.140	0.023	0.1	ug/L
M4985-04	EW5Q0	Water	Benzo(k)fluoranthene		0.090	J 0.026	0.1	ug/L

Hit Summary Sheet SW-846

SDG No.: BM121421

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
M4985-04	EW5Q0	Water	Chrysene	0.230		0.028	0.1	ug/L
M4985-04	EW5Q0	Water	Dibenzo(a,h)anthracene	0.030	J	0.021	0.1	ug/L
M4985-04	EW5Q0	Water	Fluoranthene	0.850		0.039	0.1	ug/L
M4985-04	EW5Q0	Water	Fluorene	0.100		0.018	0.1	ug/L
M4985-04	EW5Q0	Water	Indeno(1,2,3-cd)pyrene	0.120		0.023	0.1	ug/L
M4985-04	EW5Q0	Water	Naphthalene	0.060	J	0.023	0.1	ug/L
M4985-04	EW5Q0	Water	Phenanthrene	0.610		0.028	0.1	ug/L
M4985-04	EW5Q0	Water	Pyrene	0.720		0.042	0.1	ug/L
			Total Svoc :			5.12		
			Total Concentration:			5.12		
Client ID : EW5S3								
M4985-05	EW5S3	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		
M4985-05	EW5S3	Water	1,4-Dioxane		1.500	0.033	0.2	ug/L
M4985-05	EW5S3	Water	Naphthalene		0.050	J 0.023	0.1	ug/L
			Total Svoc :			1.55		
			Total Concentration:			1.55		
Client ID : EW5M9								
M4985-06	EW5M9	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		
M4985-06	EW5M9	Water	1,4-Dioxane		2.600	0.033	0.2	ug/L
M4985-06	EW5M9	Water	Naphthalene		0.050	J 0.023	0.1	ug/L
M4985-06	EW5M9	Water	Pentachlorophenol		0.080	J 0.026	0.2	ug/L
			Total Svoc :			2.73		
			Total Concentration:			2.73		
Client ID : EW5R9								
M4985-07	EW5R9	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		
M4985-07	EW5R9	Water	Naphthalene		0.050	J 0.023	0.1	ug/L
			Total Svoc :			0.05		
			Total Concentration:			0.05		
Client ID : EW5S0								
M4985-08	EW5S0	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		
M4985-08	EW5S0	Water	Naphthalene		0.050	J 0.023	0.1	ug/L
M4985-08	EW5S0	Water	Phenanthrene		0.030	J 0.028	0.1	ug/L
			Total Svoc :			0.08		
			Total Concentration:			0.08		
Client ID : EW5S1								
M4985-09	EW5S1	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
			Total Tics :			0.00		

Hit Summary Sheet SW-846

SDG No.: BM121421

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
M4985-09	EW5S1	Water	Naphthalene	0.040	J	0.023	0.1	ug/L
Total Svoc :				0.04				
Total Concentration:				0.04				
Client ID : EW5S5								
M4985-10	EW5S5	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
Total Tics :				0.00				
M4985-10	EW5S5	Water	Naphthalene	0.070	J	0.023	0.1	ug/L
Total Svoc :				0.07				
Total Concentration:				0.07				
Client ID : EW5R8								
M4985-13	EW5R8	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
Total Tics :				0.00				
M4985-13	EW5R8	Water	1,4-Dioxane	0.270		0.033	0.2	ug/L
M4985-13	EW5R8	Water	1-Methylnaphthalene	0.520		0.023	0.1	ug/L
M4985-13	EW5R8	Water	2-Methylnaphthalene	0.640		0.024	0.1	ug/L
M4985-13	EW5R8	Water	Fluoranthene	0.040	J	0.039	0.1	ug/L
M4985-13	EW5R8	Water	Naphthalene	3.700	E	0.023	0.1	ug/L
Total Svoc :				5.17				
Total Concentration:				5.17				
Client ID : EW5Q9								
M4985-18	EW5Q9	Water	Total Alkanes	*	0.000	0.33	2	ug/L
Total Tics :				0.00				
M4985-18	EW5Q9	Water	1,4-Dioxane	21.000		0.33	2	ug/L
M4985-18	EW5Q9	Water	Naphthalene	0.500	J	0.23	1	ug/L
Total Svoc :				21.50				
Total Concentration:				21.50				
Client ID : EW5R6								
M4985-20	EW5R6	Water	Total Alkanes	*	0.000	0.033	0.2	ug/L
Total Tics :				0.00				
M4985-20	EW5R6	Water	Naphthalene	0.050	J	0.023	0.1	ug/L
Total Svoc :				0.05				
Total Concentration:				0.05				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM121421 SAS No.: BM121421 SDG No.: BM121421
Instrument ID: _____ Calibration Date(s): 12/14/2021
Calibration Time(s): 14:00

LAB FILE ID:		RRFAL1 = BM033439.D			RRFAL2 = BM033440.D		RRFAL3 = BM033441.D	
		RRFAL4 = BM033442.D			RRFAL5 = BM033443.D		RRFAL6 = BM033444.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.456	0.434	0.409	0.416	0.403	0.424	5.1
1,4-Dioxane-d8		0.341	0.366	0.315	0.301	0.297	0.324	9.0
Naphthalene	1.588	1.491	1.418	1.415	1.406		1.464	5.3
1-Methylnaphthalene	0.844	0.837	0.838	0.881	0.908		0.862	3.7
2-Methylnaphthalene	0.744	0.779	0.863	0.880	0.905		0.834	8.3
Acenaphthylene	2.316	2.492	2.103	2.142	2.139		2.238	7.3
Acenaphthene	1.714	2.002	1.692	1.697	1.680		1.757	7.8
Fluorene	1.739	2.084	1.847	1.860	1.866		1.879	6.7
Pentachlorophenol		0.141	0.124	0.138	0.147	0.168	0.144	11.0
Phenanthrene	1.468	1.391	1.231	1.233	1.209		1.306	8.9
Anthracene	1.195	1.154	1.120	1.136	1.158		1.153	2.5
Fluoranthene	1.114	1.078	1.032	1.023	1.016		1.053	4.0
Pyrene	1.337	1.197	1.134	1.079	1.055		1.160	9.7
Benzo(a)anthracene	0.881	0.877	0.880	0.890	0.922		0.890	2.1
Chrysene	1.247	1.172	1.077	1.048	1.011		1.111	8.7
Benzo(b)fluoranthene	1.022	1.049	1.073	1.067	1.106		1.063	2.9
Benzo(k)fluoranthene	1.337	1.216	1.173	1.208	1.170		1.221	5.6
Benzo(a)pyrene	1.217	0.986	0.971	0.965	0.984		1.025	10.6
Indeno(1,2,3-cd)pyrene	1.117	1.151	1.098	1.181	1.177		1.145	3.2
Dibenzo(a,h)anthracene	0.911	0.955	0.885	0.993	0.994		0.948	5.2
Benzo(g,h,i)perylene	1.022	1.075	0.990	1.048	1.020		1.031	3.1
Fluoranthene-d10	0.886	0.887	0.876	0.850	0.854		0.871	2.0
2-Methylnaphthalene-d10	0.400	0.535	0.518	0.528	0.546		0.505	11.8

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: CHEMTECHLab Code: CHEM Case No.: BM121421 SAS No.: BM121421 SDG NO.: BM121421EPA Sample No.: SSTD0.4024 Date Analyzed: Dec 14 2021 12:00AMLab File ID: BM033441.D Time Analyzed: 17:37Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	544	7.911	1410	10.71	871	14.53
	UPPER LIMIT	1088	8.411	2820	11.206	1742	15.03
	LOWER LIMIT	272	7.411	705	10.206	435.5	14.03
	EPA SAMPLE NO.						
01	SICV028	533	7.91	1330	10.71	826	14.53
02	SBLK277	496	7.90	1251	10.69	903	14.52
03	EW5P7	662	7.90	1706	10.69	1203	14.52
04	EW5S3	675	7.90	1789	10.69	1298	14.52
05	EW5P9	638	7.90	1712	10.68	1240	14.52
06	EW5S0	686	7.90	1838	10.69	1333	14.52
07	EW5M9	689	7.90	1855	10.68	1469	14.52
08	EW5P8	726	7.90	1957	10.68	1428	14.52
09	EW5R9	645	7.90	1799	10.68	1288	14.52
10	SBLK279	556	7.90	1480	10.68	1074	14.52
11	SBLK291	657	7.90	1727	10.68	1292	14.52
12	EW5Q9	662	7.90	1730	10.68	1303	14.52
13	EW5Q0	805	7.90	2082	10.68	1492	14.52
14	EW5R8	804	7.89	2275	10.68	1797 *	14.52
15	EW5R8MS	731	7.89	1983	10.68	1520	14.52
16	EW5R8MSD	681	7.89	1845	10.68	1390	14.52
17	EW5S5	752	7.89	2079	10.68	1553	14.52
18	EW5S1	782	7.90	2045	10.68	1559	14.52
19	EW5R6	806	7.90	2168	10.68	1636	14.52

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM121421 SAS No.: BM121421 SDG NO.: BM121421

EPA Sample No.: SSTD0.4024 Date Analyzed: Dec 15 2021 12:00AM

Lab File ID: BM033441.D Time Analyzed: 06:10

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	544	7.911	1410	10.71	871	14.53
UPPER LIMIT	1088	8.411	2820	11.206	1742	15.03
LOWER LIMIT	272	7.411	705	10.206	435.5	14.03
EPA SAMPLE NO.						

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.: BM121421 SAS No.: BM121421 SDG NO.: BM121421
 EPA Sample No.: SSTD0.4187 Date Analyzed: Dec 15 2021 12:00AM
 Lab File ID: BM033454.D Time Analyzed: 00:49
 Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	611	7.908	1574	10.70	1067	14.52
UPPER LIMIT	1222	8.408	3148	11.202	2134	15.023
LOWER LIMIT	305.5	7.408	787	10.202	533.5	14.023
EPA SAMPLE NO.						
01 SBLK279	556	7.90	1480	10.68	1074	14.52
02 SBLK291	657	7.90	1727	10.68	1292	14.52
03 EW5Q9	662	7.90	1730	10.68	1303	14.52
04 EW5Q0	805	7.90	2082	10.68	1492	14.52
05 EW5R8	804	7.89	2275	10.68	1797	14.52
06 EW5R8MS	731	7.89	1983	10.68	1520	14.52
07 EW5R8MSD	681	7.89	1845	10.68	1390	14.52
08 EW5S5	752	7.89	2079	10.68	1553	14.52
09 EW5S1	782	7.90	2045	10.68	1559	14.52
10 EW5R6	806	7.90	2168	10.68	1636	14.52

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.: BM121421 SAS No.: BM121421 SDG NO.: BM121421

EPA Sample No.: SSTDO.4024 Date Analyzed: Dec 14 2021 12:00AM

Lab File ID: BM033441.D Time Analyzed: 17:37

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2031	17.281	3065	21.436	3030	23.751
UPPER LIMIT	4062	17.781	6130	21.936	6060	24.251
LOWER LIMIT	1015.5	16.781	1532.5	20.936	1515	23.251
EPA SAMPLE NO.						
01 SICV028	1819	17.28	2794	21.43	2671	23.75
02 SBLK277	2140	17.26	2761	21.44	3475	23.74
03 EW5P7	3042	17.26	4530	21.43	5160	23.74
04 EW5S3	3258	17.26	4203	21.43	4700	23.74
05 EW5P9	3096	17.26	4149	21.43	4742	23.74
06 EW5S0	3314	17.26	4384	21.43	5036	23.74
07 EW5M9	3453	17.26	4500	21.42	4967	23.73
08 EW5P8	3481	17.26	4590	21.43	5059	23.73
09 EW5R9	3172	17.26	4302	21.43	4860	23.73
10 SBLK279	2569	17.26	3285	21.44	3965	23.74
11 SBLK291	3108	17.26	3937	21.43	4616	23.73
12 EW5Q9	3327	17.26	4559	21.43	4239	23.74
13 EW5Q0	3813	17.26	4271	21.42	3752	23.74
14 EW5R8	4263 *	17.26	4674	21.42	4365	23.73
15 EW5R8MS	3548	17.26	3771	21.42	3204	23.73
16 EW5R8MSD	3329	17.26	3802	21.42	3137	23.74
17 EW5S5	3827	17.25	4174	21.43	3886	23.74
18 EW5S1	3800	17.25	4596	21.43	4329	23.74
19 EW5R6	3977	17.25	4468	21.43	4157	23.73

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM121421 SAS No.: BM121421 SDG NO.: BM121421

EPA Sample No.: SSTD0.4024 Date Analyzed: Dec 15 2021 12:00AM

Lab File ID: BM033441.D Time Analyzed: 06:10

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2031	17.281	3065	21.436	3030	23.751
UPPER LIMIT	4062	17.781	6130	21.936	6060	24.251
LOWER LIMIT	1015.5	16.781	1532.5	20.936	1515	23.251
EPA SAMPLE NO.						

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.: BM121421 SAS No.: BM121421 SDG NO.: BM121421

EPA Sample No.: SSTD0.4187 Date Analyzed: Dec 15 2021 12:00AM

Lab File ID: BM033454.D Time Analyzed: 00:49

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2514	17.267	3489	21.429	3416	23.742
UPPER LIMIT	5028	17.767	6978	21.929	6832	24.242
LOWER LIMIT	1257	16.767	1744.5	20.929	1708	23.242
EPA SAMPLE NO.						
01 SBLK279	2569	17.26	3285	21.44	3965	23.74
02 SBLK291	3108	17.26	3937	21.43	4616	23.73
03 EW5Q9	3327	17.26	4559	21.43	4239	23.74
04 EW5Q0	3813	17.26	4271	21.42	3752	23.74
05 EW5R8	4263	17.26	4674	21.42	4365	23.73
06 EW5R8MS	3548	17.26	3771	21.42	3204	23.73
07 EW5R8MSD	3329	17.26	3802	21.42	3137	23.74
08 EW5S5	3827	17.25	4174	21.43	3886	23.74
09 EW5S1	3800	17.25	4596	21.43	4329	23.74
10 EW5R6	3977	17.25	4468	21.43	4157	23.73

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.



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

SDG No.: BM121421

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	



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK277

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM121421SAS No.: BM121421 SDG NO.: BM121421Lab File ID: BM033446.DLab Sample ID: PB141277BLInstrument ID: BNA_MDate Extracted: 12/09/2021Matrix: (soil/water) WaterDate Analyzed: 12/14/2021Level: (low/med) LOWTime Analyzed: 18:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
EW5P7	M4985-01	BM033447.D	12/14/2021
EW5S3	M4985-05	BM033448.D	12/14/2021
EW5P9	M4985-03	BM033449.D	12/14/2021
EW5P8	M4985-02	BM033452.D	12/14/2021
EW5Q0	M4985-04	BM033458.D	12/15/2021

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK279

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM121421SAS No.: BM121421 SDG NO.: BM121421Lab File ID: BM033455.DLab Sample ID: PB141279BLInstrument ID: BNA_MDate Extracted: 12/09/2021Matrix: (soil/water) WaterDate Analyzed: 12/15/2021Level: (low/med) LOWTime Analyzed: 00:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
EW5R9	M4985-07	BM033453.D	12/14/2021
EW5S0	M4985-08	BM033450.D	12/14/2021
EW5M9	M4985-06	BM033451.D	12/14/2021
EW5S5	M4985-10	BM033462.D	12/15/2021
EW5S1	M4985-09	BM033463.D	12/15/2021

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK291

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM121421SAS No.: BM121421 SDG NO.: BM121421Lab File ID: BM033456.DLab Sample ID: PB141291BLInstrument ID: BNA_MDate Extracted: 12/09/2021Matrix: (soil/water) WaterDate Analyzed: 12/15/2021Level: (low/med) LOWTime Analyzed: 01:24

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
EW5R8	M4985-13	BM033459.D	12/15/2021
EW5R8MS	M4985-14MS	BM033460.D	12/15/2021
EW5R8MSD	M4985-14MSD	BM033461.D	12/15/2021

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

EW5Q9

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM121421SAS No.: BM121421 SDG NO.: BM121421Lab File ID: BM033457.DLab Sample ID: M4985-18Instrument ID: BNA_MDate Extracted: 12/09/2021Matrix: (soil/water) WaterDate Analyzed: 12/15/2021Level: (low/med) LOWTime Analyzed: 02:00

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
EW5Q9	M4985-18	BM033457.D	12/15/2021

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

EW5R6

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM121421SAS No.: BM121421 SDG NO.: BM121421Lab File ID: BM033464.DLab Sample ID: M4985-20Instrument ID: BNA_MDate Extracted: 12/10/2021Matrix: (soil/water) WaterDate Analyzed: 12/15/2021Level: (low/med) LOWTime Analyzed: 06:10

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
EW5R6	M4985-20	BM033464.D	12/15/2021

COMMENTS: _____



Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: BM121421

Client: _____

Analytical Method: SFAM_SVOASIM

Parameter		Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	M4985-14MS		Client Sample ID:	EW5R8MS					DataFile:	BM033460.D		
1,4-Dioxane	2	0.27	0.99	ug/L	36					15	120	
Naphthalene	0.4	3.7	4.6	ug/L	225					0	0	
1-Methylnaphthalene	0.4	0.52	0.95	ug/L	108					0	0	
2-Methylnaphthalene	0.4	0.64	1.1	ug/L	115					0	0	
Acenaphthylene	0.4		0.31	ug/L	78					0	0	
Acenaphthene	0.4		0.32	ug/L	80					46	118	
Fluorene	0.4		0.34	ug/L	85					0	0	
Pentachlorophenol	0.8		0.88	ug/L	110	*				9	103	
Phenanthrene	0.4	0	0.39	ug/L	98					0	0	
Anthracene	0.4		0.39	ug/L	98					0	0	
Fluoranthene	0.4	0.04	0.56	ug/L	130					0	0	
Pyrene	0.4	0	0.53	ug/L	133	*				26	127	
Benzo(a)anthracene	0.4	0	0.5	ug/L	125					0	0	
Chrysene	0.4		0.44	ug/L	110					0	0	
Benzo(b)fluoranthene	0.4		0.47	ug/L	117					0	0	
Benzo(k)fluoranthene	0.4		0.44	ug/L	110					0	0	
Benzo(a)pyrene	0.4		0.42	ug/L	105					0	0	
Indeno(1,2,3-cd)pyrene	0.4		0.44	ug/L	110					0	0	
Dibenzo(a,h)anthracene	0.4		0.45	ug/L	113					0	0	
Benzo(g,h,i)perylene	0.4		0.42	ug/L	105					0	0	



Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: BM121421

Client: _____

Analytical Method: SFAM_SVOASIM

Parameter	Spike	Sample	Result	Units	Rec	Rec	RPD	RPD	Low	Limits	
		Result				Qual		Qual		High	RPD
Lab Sample ID:	M4985-14MSD	Client Sample ID:	EW5R8MSD					DataFile:	BM033461.D		
1,4-Dioxane	2	0.27	1	ug/L	37		3		15	120	50
Naphthalene	0.4	3.7	4.9	ug/L	300		29	*	0	0	0
1-Methylnaphthalene	0.4	0.52	1	ug/L	120		11	*	0	0	0
2-Methylnaphthalene	0.4	0.64	1.2	ug/L	140		20	*	0	0	0
Acenaphthylene	0.4		0.33	ug/L	83		6	*	0	0	0
Acenaphthene	0.4		0.34	ug/L	85		6		46	118	31
Fluorene	0.4		0.38	ug/L	95		11	*	0	0	0
Pentachlorophenol	0.8		0.97	ug/L	121	*	10		9	103	50
Phenanthrene	0.4	0	0.42	ug/L	105		7	*	0	0	0
Anthracene	0.4		0.44	ug/L	110		12	*	0	0	0
Fluoranthene	0.4	0.04	0.57	ug/L	133		2	*	0	0	0
Pyrene	0.4	0	0.55	ug/L	138	*	4		26	127	31
Benzo(a)anthracene	0.4	0	0.54	ug/L	135		8	*	0	0	0
Chrysene	0.4		0.46	ug/L	115		4	*	0	0	0
Benzo(b)fluoranthene	0.4		0.52	ug/L	130		11	*	0	0	0
Benzo(k)fluoranthene	0.4		0.48	ug/L	120		9	*	0	0	0
Benzo(a)pyrene	0.4		0.45	ug/L	113		7	*	0	0	0
Indeno(1,2,3-cd)pyrene	0.4		0.45	ug/L	113		3	*	0	0	0
Dibenzo(a,h)anthracene	0.4		0.46	ug/L	115		2	*	0	0	0
Benzo(g,h,i)perylene	0.4		0.43	ug/L	108		3	*	0	0	0



Surrogate Summary
SW-846

SDG No.: BM121421

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
M4985-01	EW5P7	BM033447.D	1,4-Dioxane-d8	8	4.48	56		15	120
			Fluoranthene-d10	0.4	0.45	113		30	130
			2-Methylnaphthalene-d10	0.4	0.38	95		30	130
M4985-02	EW5P8	BM033452.D	1,4-Dioxane-d8	8	4.53	57		15	120
			Fluoranthene-d10	0.4	0.51	127		30	130
			2-Methylnaphthalene-d10	0.4	0.43	108		30	130
M4985-03	EW5P9	BM033449.D	1,4-Dioxane-d8	8	4.64	58		15	120
			Fluoranthene-d10	0.4	0.53	132	*	30	130
			2-Methylnaphthalene-d10	0.4	0.43	108		30	130
M4985-04	EW5Q0	BM033458.D	1,4-Dioxane-d8	8	3.55	44		15	120
			Fluoranthene-d10	0.4	0.55	138	*	30	130
			2-Methylnaphthalene-d10	0.4	0.37	93		30	130
M4985-05	EW5S3	BM033448.D	1,4-Dioxane-d8	8	5.02	63		15	120
			Fluoranthene-d10	0.4	0.52	130		30	130
			2-Methylnaphthalene-d10	0.4	0.45	113		30	130
PB141277BL	PB141277BL	BM033446.D	1,4-Dioxane-d8	8	6.26	78		15	120
			Fluoranthene-d10	0.4	0.48	120		30	130
			2-Methylnaphthalene-d10	0.4	0.46	115		30	130



Surrogate Summary
SW-846

SDG No.: BM121421

Client: _____

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
M4985-06	EW5M9	BM033451.D	1,4-Dioxane-d8	8	3.55	44		15	120
			Fluoranthene-d10	0.4	0.47	117		30	130
			2-Methylnaphthalene-d10	0.4	0.43	108		30	130
M4985-07	EW5R9	BM033453.D	1,4-Dioxane-d8	8	4.87	61		15	120
			Fluoranthene-d10	0.4	0.53	132	*	30	130
			2-Methylnaphthalene-d10	0.4	0.43	108		30	130
M4985-08	EW5S0	BM033450.D	1,4-Dioxane-d8	8	4.09	51		15	120
			Fluoranthene-d10	0.4	0.50	125		30	130
			2-Methylnaphthalene-d10	0.4	0.42	105		30	130
M4985-09	EW5S1	BM033463.D	1,4-Dioxane-d8	8	4.64	58		15	120
			Fluoranthene-d10	0.4	0.53	132	*	30	130
			2-Methylnaphthalene-d10	0.4	0.45	113		30	130
M4985-10	EW5S5	BM033462.D	1,4-Dioxane-d8	8	5.10	64		15	120
			Fluoranthene-d10	0.4	0.67	168	*	30	130
			2-Methylnaphthalene-d10	0.4	0.49	123		30	130
PB141279BL	PB141279BL	BM033455.D	1,4-Dioxane-d8	8	5.60	70		15	120
			Fluoranthene-d10	0.4	0.44	110		30	130
			2-Methylnaphthalene-d10	0.4	0.41	102		30	130



Surrogate Summary
SW-846

SDG No.: BM121421

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
M4985-13	EW5R8	BM033459.D	1,4-Dioxane-d8	8	4.20	52		15	120
			Fluoranthene-d10	0.4	0.57	142	*	30	130
			2-Methylnaphthalene-d10	0.4	0.44	110		30	130
M4985-14MS	EW5R8MS	BM033460.D	1,4-Dioxane-d8	8	2.94	37		15	120
			Fluoranthene-d10	0.4	0.56	140	*	30	130
			2-Methylnaphthalene-d10	0.4	0.43	108		30	130
M4985-14MSD	EW5R8MSD	BM033461.D	1,4-Dioxane-d8	8	3.42	43		15	120
			Fluoranthene-d10	0.4	0.57	142	*	30	130
			2-Methylnaphthalene-d10	0.4	0.44	110		30	130
PB141291BL	PB141291BL	BM033456.D	1,4-Dioxane-d8	8	5.18	65		15	120
			Fluoranthene-d10	0.4	0.41	102		30	130
			2-Methylnaphthalene-d10	0.4	0.40	100		30	130



Surrogate Summary
SW-846

SDG No.: BM121421

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
M4985-18	EW5Q9	BM033457.D	1,4-Dioxane-d8	8	44.60	557	*	15	120
			Fluoranthene-d10	0.4	5.40	1350	*	30	130
			2-Methylnaphthalene-d10	0.4	4.50	1125	*	30	130



Surrogate Summary
SW-846

SDG No.: BM121421

Client:

Analytical Method: SFAM_SVOASIM

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
M4985-20	EW5R6	BM033464.D	1,4-Dioxane-d8	8	4.50	56	*	15	120
			Fluoranthene-d10	0.4	0.64	160		30	130
			2-Methylnaphthalene-d10	0.4	0.47	117		30	130

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM121421

Lab Code: CHEM

SAS No.: BM121421 SDG NO.: BM121421

Lab File ID: BM033438.D

DFTPP Injection Date: 12/14/2021

Instrument ID: BNA_M

DFTPP Injection Time: 13:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	45.5
68	Less than 2.0% of mass 69	0.9 (2) 1
69	Mass 69 relative abundance	45.5
70	Less than 2.0% of mass 69	0.4 (0.8) 1
127	10.0 - 80.0% of mass 198	50.4
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	10.6
442	Greater than 50% of mass 198	69.5
443	15.0 - 24.0% of mass 442	13 (18.7) 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
SSTD0.1022	SSTD0.115	BM033439.D	12/14/2021	14:00
SSTD0.2023	SSTD0.216	BM033440.D	12/14/2021	14:36
SSTD0.4024	SSTD0.417	BM033441.D	12/14/2021	15:12
SSTD0.8025	SSTD0.818	BM033442.D	12/14/2021	15:48
SSTD1.6026	SSTD1.619	BM033443.D	12/14/2021	16:24
SSTD3.2027	SSTD3.220	BM033444.D	12/14/2021	17:00
SICV028	SSTDICV0.4	BM033445.D	12/14/2021	17:37
SBLK277	PB141277BL	BM033446.D	12/14/2021	18:49
EW5P7	M4985-01	BM033447.D	12/14/2021	19:25
EW5S3	M4985-05	BM033448.D	12/14/2021	20:01
EW5P9	M4985-03	BM033449.D	12/14/2021	20:37
EW5S0	M4985-08	BM033450.D	12/14/2021	21:13
EW5M9	M4985-06	BM033451.D	12/14/2021	21:49
EW5P8	M4985-02	BM033452.D	12/14/2021	22:25
EW5R9	M4985-07	BM033453.D	12/14/2021	23:01
SSTD0.4187	SSTDCCC0.4	BM033454.D	12/14/2021	23:37
SBLK279	PB141279BL	BM033455.D	12/15/2021	00:49
SBLK291	PB141291BL	BM033456.D	12/15/2021	01:24
EW5Q9	M4985-18	BM033457.D	12/15/2021	02:00



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)Lab Name: CHEMTECHContract: BM121421Lab Code: CHEMSAS No.: BM121421 SDG NO.: BM121421Lab File ID: BM033438.DDFTPP Injection Date: 12/14/2021Instrument ID: BNA_MDFTPP Injection Time: 13:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	45.5
68	Less than 2.0% of mass 69	0.9 (2) 1
69	Mass 69 relative abundance	45.5
70	Less than 2.0% of mass 69	0.4 (0.8) 1
127	10.0 - 80.0% of mass 198	50.4
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	10.6
442	Greater than 50% of mass 198	69.5
443	15.0 - 24.0% of mass 442	13 (18.7) 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
EW5Q0	M4985-04	BM033458.D	12/15/2021	02:36
EW5R8	M4985-13	BM033459.D	12/15/2021	03:12
EW5R8MS	M4985-14MS	BM033460.D	12/15/2021	03:47
EW5R8MSD	M4985-14MSD	BM033461.D	12/15/2021	04:23
EW5S5	M4985-10	BM033462.D	12/15/2021	04:59
EW5S1	M4985-09	BM033463.D	12/15/2021	05:34
EW5R6	M4985-20	BM033464.D	12/15/2021	06:10