284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG No.: BP090924

Instrument ID: BNA_P Calibration Date/Time: 9/9/2024 12: 12:59

Lab File ID: BP021863.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.693	0.733		5.772	
Pyridine	1.969	2.233		13.408	
2-Fluorophenol	1.469	1.793		22.056	
Benzaldehyde	1.121	1.366		21.855	
Aniline	1.762	2.318		31.555	
Phenol-d6	2.002	2.552		27.473	
Phenol	2.008	2.559		27.44	20.0
bis(2-Chloroethyl)ether	1.564	2.022		29.284	
2-Chlorophenol	1.373	1.729		25.929	
1,2-Dichlorobenzene	1.437	1.455		1.253	
1,3-Dichlorobenzene	1.499	1.585		5.737	
1,4-Dichlorobenzene	1.500	1.506		0.4	20.0
Benzyl Alcohol	1.312	1.324		0.915	
2-Methylphenol	1.255	1.285		2.39	
2,2-oxybis(1-Chloropropane)	1.361	1.327		-2.498	
Acetophenone	0.555	0.705		27.027	
3+4-Methylphenols	1.733	1.787		3.116	
n-Nitroso-di-n-propylamine	1.091	1.081	0.050	-0.917	
Nitrobenzene-d5	0.379	0.466		22.955	
Hexachloroethane	0.608	0.609		0.164	
Nitrobenzene	0.385	0.469		21.818	
Isophorone	0.744	0.801		7.661	
2-Nitrophenol	0.148	0.164		10.811	20.0
2,4-Dimethylphenol	0.213	0.229		7.512	
bis(2-Chloroethoxy)methane	0.479	0.501		4.593	
2,4-Dichlorophenol	0.277	0.306		10.469	20.0
1,2,4-Trichlorobenzene	0.320	0.336		5.0	
Benzoic acid	0.244	0.257		5.328	
Naphthalene	1.052	1.073		1.996	
4-Chloroaniline	0.389	0.413		6.17	
Hexachlorobutadiene	0.208	0.218		4.808	20.0
Caprolactam	0.120	0.127		5.833	
4-Chloro-3-methylphenol	0.409	0.443		8.313	20.0
2-Methylnaphthalene	0.686	0.730		6.414	
Hexachlorocyclopentadiene	0.171	0.197	0.050	15.205	
2,4,6-Trichlorophenol	0.338	0.382		13.018	20.0
2-Fluorobiphenyl	1.227	1.312		6.927	
2,4,5-Trichlorophenol	0.385	0.435		12.987	
1,1-Biphenyl	1.349	1.453		7.709	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG No.: BP090924

Instrument ID: BNA_P Calibration Date/Time: 9/9/2024 12: 12:59

Lab File ID: BP021863.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.057	1.131		7.001	
2-Nitroaniline	0.355	0.399		12.394	
Dimethylphthalate	1.395	1.488		6.667	
Acenaphthylene	1.605	1.691		5.358	
2,6-Dinitrotoluene	0.308	0.332		7.792	
3-Nitroaniline	0.308	0.347		12.662	
Acenaphthene	1.041	1.090		4.707	20.0
2,4-Dinitrophenol	0.157	0.169	0.050	7.643	
4-Nitrophenol	0.272	0.304	0.050	11.765	
Dibenzofuran	1.654	1.718		3.869	
2,4-Dinitrotoluene	0.425	0.478		12.471	
Diethylphthalate	1.458	1.592		9.191	
4-Chlorophenyl-phenylether	0.668	0.698		4.491	
Fluorene	1.364	1.451		6.378	
4-Nitroaniline	0.339	0.383		12.979	
4,6-Dinitro-2-methylphenol	0.098	0.109		11.224	
n-Nitrosodiphenylamine	0.525	0.551		4.952	20.0
Azobenzene	1.552	1.597		2.899	
2,4,6-Tribromophenol	0.235	0.254		8.085	
4-Bromophenyl-phenylether	0.189	0.194		2.646	
Hexachlorobenzene	0.227	0.234		3.084	
Atrazine	0.165	0.149		-9.697	
Pentachlorophenol	0.146	0.160		9.589	20.0
Phenanthrene	0.988	1.022		3.441	
Anthracene	0.948	1.003		5.802	
Carbazole	0.975	1.025		5.128	
Di-n-butylphthalate	1.112	1.225		10.162	
Fluoranthene	1.245	1.298		4.257	20.0
Benzidine	0.354	0.438		23.729	
Pyrene	1.291	1.344		4.105	
Terphenyl-d14	0.974	1.027		5.441	
Butylbenzylphthalate	0.522	0.568		8.812	
3,3-Dichlorobenzidine	0.411	0.445		8.273	
Benzo(a)anthracene	1.268	1.315		3.707	
Chrysene	1.215	1.248		2.716	
Bis(2-ethylhexyl)phthalate	0.756	0.838		10.847	
Di-n-octyl phthalate	1.232	1.395		13.231	20.0
Benzo(b)fluoranthene	1.159	1.200		3.538	
Benzo(k)fluoranthene	1.106	1.154		4.34	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG No.: BP090924

Instrument ID: BNA_P Calibration Date/Time: 9/9/2024 12: 12:59

Lab File ID: BP021863.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	0.996	1.045		4.92	20.0
Indeno(1,2,3-cd)pyrene	1.261	1.306		3.569	
Dibenzo(a,h)anthracene	1.035	1.066		2.995	
Benzo(g,h,i)perylene	1.085	1.132		4.332	
1,2,4,5-Tetrachlorobenzene	0.525	0.564		7.429	
1,4-Dioxane	0.757	0.797		5.284	20.0
2,3,4,6-Tetrachlorophenol	0.348	0.376		8.046	
1-Methylnaphthalene	0.683	0.724		6.003	

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBP090924		SDG No.:	BP090924	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% 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
BP021867.D	1		9/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	40100		1000	8000	10000	ug/L
110-86-1	Pyridine	37400		1600	4000	5000	ug/L
100-52-7	Benzaldehyde	46000		4000	8000	10000	ug/L
62-53-3	Aniline	40800		1600	4000	5000	ug/L
108-95-2	Phenol	45500		930	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	38000		1200	4000	5000	ug/L
95-57-8	2-Chlorophenol	38300		710	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	39200		880	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	38700		800	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39500		840	4000	5000	ug/L
100-51-6	Benzyl Alcohol	40600		1600	8000	10000	ug/L
95-48-7	2-Methylphenol	40700		1100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39400		1400	4000	5000	ug/L
98-86-2	Acetophenone	43000		1100	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	41900		1200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39700		1500	2500	2500	ug/L
67-72-1	Hexachloroethane	41000		1000	4000	5000	ug/L
98-95-3	Nitrobenzene	45200		1300	4000	5000	ug/L
78-59-1	Isophorone	41000		1100	4000	5000	ug/L
88-75-5	2-Nitrophenol	45500		2000	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	42300		1500	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40400		1000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	43400		880	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	41100		1100	4000	5000	ug/L
65-85-0	Benzoic acid	40800		5500	8000	10000	ug/L
91-20-3	Naphthalene	40100		1000	4000	5000	ug/L
106-47-8	4-Chloroaniline	41700		1300	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	40500		1300	4000	5000	ug/L

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBP090924		SDG No.:	BP090924	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% 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
BP021867.D	1		9/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	42800		1700	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	43000		840	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	41500		1100	4000	5000	ug/L
77-47-4	Hexachlorocyclopentadiene	44000		5000	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	43800		890	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	43800		1000	4000	5000	ug/L
92-52-4	1,1-Biphenyl	41200		910	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	40800		970	4000	5000	ug/L
88-74-4	2-Nitroaniline	43700		1400	4000	5000	ug/L
131-11-3	Dimethylphthalate	40700		930	4000	5000	ug/L
208-96-8	Acenaphthylene	41000		1000	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	43000		1200	4000	5000	ug/L
99-09-2	3-Nitroaniline	44000		1400	4000	5000	ug/L
83-32-9	Acenaphthene	40400		810	4000	5000	ug/L
Total PAH	Total PAH	688900		17360	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	43800		6400	8000	10000	ug/L
100-02-7	4-Nitrophenol	45100		2000	8000	10000	ug/L
132-64-9	Dibenzofuran	40600		930	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	44100		1500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	87100		2700	4000	10000	ug/L
84-66-2	Diethylphthalate	42100		1000	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40000		980	4000	5000	ug/L
86-73-7	Fluorene	40600		960	4000	5000	ug/L
100-01-6	4-Nitroaniline	43700		2000	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	43400		3100	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	40700		890	4000	5000	ug/L
103-33-3	Azobenzene	39700		1200	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	40900		950	4000	5000	ug/L
118-74-1	Hexachlorobenzene	39700		1100	4000	5000	ug/L
1912-24-9	Atrazine	41100		1300	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBP090924			SDG No.:	BP090924
Lab Sample ID:	SSTDICV040			Matrix:	Water
Analytical Method:	8270E			% 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
BP021867.D	1		9/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	43800		1900	8000	10000	ug/L
85-01-8	Phenanthrene	40300		890	4000	5000	ug/L
120-12-7	Anthracene	41100		1100	4000	5000	ug/L
86-74-8	Carbazole	41100		1200	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	43300		1500	4000	5000	ug/L
206-44-0	Fluoranthene	40200		1300	4000	5000	ug/L
92-87-5	Benzidine	33900		4100	8000	10000	ug/L
129-00-0	Pyrene	42400		1100	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	43600		2100	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	42600		1300	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	40600		940	4000	5000	ug/L
218-01-9	Chrysene	40600		860	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42800		1900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	44500		2500	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	40400		1100	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	41000		1200	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	41800		1700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	52800		1000	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	52600		1200	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	53000		1200	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	41400		1100	4000	5000	ug/L
123-91-1	1,4-Dioxane	42800		1300	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41800		790	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	41800		860	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	102313	*	10-139		68209	SPK: -150
13127-88-3	Phenol-d6	92791	*	10-134		61861	SPK: -150
4165-60-0	Nitrobenzene-d5	91594	*	49-133		91594	SPK: -100
321-60-8	2-Fluorobiphenyl	82493	*	52-132		82493	SPK: -100

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Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBP090924			SDG No.:	BP090924		
Lab Sample ID:	SSTDICV040			Matrix:	Water		
Analytical Method:	8270E			% 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
BP021867.D	1		9/9/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	85703	*	44-137		57135	SPK: -150
1718-51-0	Terphenyl-d14	84179	*	48-125		84179	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	172915	7.763				
1146-65-2	Naphthalene-d8	718472	10.534				
15067-26-2	Acenaphthene-d10	490944	14.381				
1517-22-2	Phenanthrene-d10	1094324	17.181				
1719-03-5	Chrysene-d12	1066765	21.604				
1520-96-3	Perylene-d12	1228299	24.939				

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Report of Analysis

Client:				Date Collected:	9/9/2024 12:00:00 AM
Project:				Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	PB163214BL			SDG No.:	BP090924
Lab Sample ID:	PB163214BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.02	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
BP021868.D	1	9/9/2024 12:00:00 AM	9/9/2024 12:00:00 AM	PB163214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	86.7	U	86.7	270	330	ug/Kg
110-86-1	Pyridine	79.8	U	79.8	130	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	270	330	ug/Kg
62-53-3	Aniline	96.8	U	96.8	130	170	ug/Kg
108-95-2	Phenol	82.8	U	82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	84.5	U	84.5	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	85.9	U	85.9	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.4	U	86.4	130	170	ug/Kg
100-51-6	Benzyl Alcohol	82.9	U	82.9	270	330	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	130	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	130	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	85.3	U	85.3	130	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	270	330	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	130	170	ug/Kg

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Report of Analysis

Client:				Date Collected:	9/9/2024 12:00:00 AM
Project:				Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	PB163214BL			SDG No.:	BP090924
Lab Sample ID:	PB163214BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.02	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
BP021868.D	1	9/9/2024 12:00:00 AM	9/9/2024 12:00:00 AM	PB163214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	86.7	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74	U	74	130	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	130	170	ug/Kg
208-96-8	Acenaphthylene	86.4	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	81	U	81	130	170	ug/Kg
Total PAH	Total PAH	1323.5	U	1323.5	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture	169.2	U	169.2	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	80	U	80	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	130	170	ug/Kg
103-33-3	Azobenzene	79.5	U	79.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	130	170	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:				Date Collected:	9/9/2024 12:00:00 AM
Project:				Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	PB163214BL			SDG No.:	BP090924
Lab Sample ID:	PB163214BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.02	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
BP021868.D	1	9/9/2024 12:00:00 AM	9/9/2024 12:00:00 AM	PB163214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	77.2	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	130	170	ug/Kg
92-87-5	Benzidine	160	U	160	270	330	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81	U	81	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78	U	78	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80	U	80	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.1	U	83.1	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	141.27		18-112		94	SPK: -150
13127-88-3	Phenol-d6	138.449		15-107		92	SPK: -150
4165-60-0	Nitrobenzene-d5	114.559	*	18-107		115	SPK: -100
321-60-8	2-Fluorobiphenyl	103.887		20-109		104	SPK: -100

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:				Date Collected:	9/9/2024 12:00:00 AM
Project:				Date Received:	9/9/2024 12:00:00 AM
Client Sample ID:	PB163214BL			SDG No.:	BP090924
Lab Sample ID:	PB163214BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.02	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
BP021868.D	1	9/9/2024 12:00:00 AM	9/9/2024 12:00:00 AM	PB163214

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	108.23		10-116		72	SPK: -150
1718-51-0	Terphenyl-d14	107.985	*	10-105		108	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	214440	7.758				
1146-65-2	Naphthalene-d8	817062	10.534				
15067-26-2	Acenaphthene-d10	482717	14.387				
1517-22-2	Phenanthrene-d10	741617	17.175				
1719-03-5	Chrysene-d12	683062	21.604				
1520-96-3	Perylene-d12	771383	24.945				
TENTATIVE IDENTIFIED COMPOUNDS							
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	A			4.917	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BP090924

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBP090924**							
SSTDICV040	ICVBP090924	Water	1,1-Biphenyl	41,200.000		910	5000	ug/L
SSTDICV040	ICVBP090924	Water	1,2,4,5-Tetrachlorobenzene	41,400.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	1,2,4-Trichlorobenzene	41,100.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	1,2-Dichlorobenzene	39,200.000		880	5000	ug/L
SSTDICV040	ICVBP090924	Water	1,3-Dichlorobenzene	38,700.000		800	5000	ug/L
SSTDICV040	ICVBP090924	Water	1,4-Dichlorobenzene	39,500.000		840	5000	ug/L
SSTDICV040	ICVBP090924	Water	1,4-Dioxane	42,800.000		1300	5000	ug/L
SSTDICV040	ICVBP090924	Water	1-Methylnaphthalene	41,800.000		860	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,2-oxybis(1-Chloropropane)	39,400.000		1400	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,3,4,6-Tetrachlorophenol	41,800.000		790	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,4,5-Trichlorophenol	43,800.000		1000	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,4,6-Trichlorophenol	43,800.000		890	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,4-Dichlorophenol	43,400.000		880	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,4-Dimethylphenol	42,300.000		1500	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,4-Dinitrophenol	43,800.000		6400	10000	ug/L
SSTDICV040	ICVBP090924	Water	2,4-Dinitrotoluene	44,100.000		1500	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,6-Dinitrotoluene	43,000.000		1200	5000	ug/L
SSTDICV040	ICVBP090924	Water	2-Chloronaphthalene	40,800.000		970	5000	ug/L
SSTDICV040	ICVBP090924	Water	2-Chlorophenol	38,300.000		710	5000	ug/L
SSTDICV040	ICVBP090924	Water	2-Methylnaphthalene	41,500.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	2-Methylphenol	40,700.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	2-Nitroaniline	43,700.000		1400	5000	ug/L
SSTDICV040	ICVBP090924	Water	2-Nitrophenol	45,500.000		2000	5000	ug/L
SSTDICV040	ICVBP090924	Water	3+4-Methylphenols	41,900.000		1200	10000	ug/L
SSTDICV040	ICVBP090924	Water	3,3-Dichlorobenzidine	42,600.000		1300	10000	ug/L
SSTDICV040	ICVBP090924	Water	3-Nitroaniline	44,000.000		1400	5000	ug/L
SSTDICV040	ICVBP090924	Water	4,6-Dinitro-2-methylphenol	43,400.000		3100	10000	ug/L
SSTDICV040	ICVBP090924	Water	4-Bromophenyl-phenylether	40,900.000		950	5000	ug/L
SSTDICV040	ICVBP090924	Water	4-Chloro-3-methylphenol	43,000.000		840	5000	ug/L
SSTDICV040	ICVBP090924	Water	4-Chloroaniline	41,700.000		1300	5000	ug/L
SSTDICV040	ICVBP090924	Water	4-Chlorophenyl-phenylether	40,000.000		980	5000	ug/L
SSTDICV040	ICVBP090924	Water	4-Nitroaniline	43,700.000		2000	5000	ug/L
SSTDICV040	ICVBP090924	Water	4-Nitrophenol	45,100.000		2000	10000	ug/L
SSTDICV040	ICVBP090924	Water	Acenaphthene	40,400.000		810	5000	ug/L
SSTDICV040	ICVBP090924	Water	Acenaphthylene	41,000.000		1000	5000	ug/L
SSTDICV040	ICVBP090924	Water	Acetophenone	43,000.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	Aniline	40,800.000		1600	5000	ug/L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: BP090924

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBP090924	Water	Anthracene	41,100.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	Atrazine	41,100.000		1300	5000	ug/L
SSTDICV040	ICVBP090924	Water	Azobenzene	39,700.000		1200	5000	ug/L
SSTDICV040	ICVBP090924	Water	Benzaldehyde	46,000.000		4000	10000	ug/L
SSTDICV040	ICVBP090924	Water	Benzidine	33,900.000		4100	10000	ug/L
SSTDICV040	ICVBP090924	Water	Benzo(a)anthracene	40,600.000		940	5000	ug/L
SSTDICV040	ICVBP090924	Water	Benzo(a)pyrene	41,800.000		1700	5000	ug/L
SSTDICV040	ICVBP090924	Water	Benzo(b)fluoranthene	40,400.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	Benzo(g,h,i)perylene	53,000.000		1200	5000	ug/L
SSTDICV040	ICVBP090924	Water	Benzo(k)fluoranthene	41,000.000		1200	5000	ug/L
SSTDICV040	ICVBP090924	Water	Benzoic acid	40,800.000		5500	10000	ug/L
SSTDICV040	ICVBP090924	Water	Benzyl Alcohol	40,600.000		1600	10000	ug/L
SSTDICV040	ICVBP090924	Water	bis(2-Chloroethoxy)methane	40,400.000		1000	5000	ug/L
SSTDICV040	ICVBP090924	Water	bis(2-Chloroethyl)ether	38,000.000		1200	5000	ug/L
SSTDICV040	ICVBP090924	Water	Bis(2-ethylhexyl)phthalate	42,800.000		1900	5000	ug/L
SSTDICV040	ICVBP090924	Water	Butylbenzylphthalate	43,600.000		2100	5000	ug/L
SSTDICV040	ICVBP090924	Water	Caprolactam	42,800.000		1700	10000	ug/L
SSTDICV040	ICVBP090924	Water	Carbazole	41,100.000		1200	5000	ug/L
SSTDICV040	ICVBP090924	Water	Chrysene	40,600.000		860	5000	ug/L
SSTDICV040	ICVBP090924	Water	Di-n-butylphthalate	43,300.000		1500	5000	ug/L
SSTDICV040	ICVBP090924	Water	Di-n-octyl phthalate	44,500.000		2500	10000	ug/L
SSTDICV040	ICVBP090924	Water	Dibenzo(a,h)anthracene	52,600.000		1200	5000	ug/L
SSTDICV040	ICVBP090924	Water	Dibenzofuran	40,600.000		930	5000	ug/L
SSTDICV040	ICVBP090924	Water	Diethylphthalate	42,100.000		1000	5000	ug/L
SSTDICV040	ICVBP090924	Water	Dimethylphthalate	40,700.000		930	5000	ug/L
SSTDICV040	ICVBP090924	Water	Fluoranthene	40,200.000		1300	5000	ug/L
SSTDICV040	ICVBP090924	Water	Fluorene	40,600.000		960	5000	ug/L
SSTDICV040	ICVBP090924	Water	Hexachlorobenzene	39,700.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	Hexachlorobutadiene	40,500.000		1300	5000	ug/L
SSTDICV040	ICVBP090924	Water	Hexachlorocyclopentadiene	44,000.000		5000	10000	ug/L
SSTDICV040	ICVBP090924	Water	Hexachloroethane	41,000.000		1000	5000	ug/L
SSTDICV040	ICVBP090924	Water	Indeno(1,2,3-cd)pyrene	52,800.000		1000	5000	ug/L
SSTDICV040	ICVBP090924	Water	Isophorone	41,000.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	n-Nitroso-di-n-propylamine	39,700.000		1500	2500	ug/L
SSTDICV040	ICVBP090924	Water	n-Nitrosodimethylamine	40,100.000		1000	10000	ug/L
SSTDICV040	ICVBP090924	Water	n-Nitrosodiphenylamine	40,700.000		890	5000	ug/L
SSTDICV040	ICVBP090924	Water	Naphthalene	40,100.000		1000	5000	ug/L
SSTDICV040	ICVBP090924	Water	Nitrobenzene	45,200.000		1300	5000	ug/L
SSTDICV040	ICVBP090924	Water	Pentachlorophenol	43,800.000		1900	10000	ug/L
SSTDICV040	ICVBP090924	Water	Phenanthrene	40,300.000		890	5000	ug/L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: BP090924

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBP090924	Water	Phenol	45,500.000		930	5000	ug/L
SSTDICV040	ICVBP090924	Water	Pyrene	42,400.000		1100	5000	ug/L
SSTDICV040	ICVBP090924	Water	Pyridine	37,400.000		1600	5000	ug/L
SSTDICV040	ICVBP090924	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	87,100.000		2700	10000	ug/L
SSTDICV040	ICVBP090924	Water	Total PAH	688,900.000		17360	80000	ug/L
			Total Svoc :	**4,137,200.00**				
			Total Concentration:	**4,137,200.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG No.: BP090924

Instrument ID: Calibration Date(s): 9/9/2024 1:

Calibration Time(s): 10:06

LAB FILE ID: RRF2.5 = BP021859.D RRF005 = BP021860.D RRF010 = BP021861.D
RRF020 = BP021862.D RRF040 = BP021863.D RRF050 = BP021864.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.873	0.617	0.807	0.733	0.532	0.693	17.8
Pyridine		2.296	1.652	2.301	2.233	1.602	1.969	18.6
2-Fluorophenol		1.870	1.172	1.363	1.793	1.354	1.469	17.6
Benzaldehyde		1.202	1.248	1.126	1.366	0.968	1.121	17.8
Aniline		1.704	1.748	1.783	2.318	1.690	1.762	14.9
Phenol-d6		1.802	1.884	1.959	2.552	1.966	2.002	12.4
Phenol		1.836	1.929	1.930	2.559	1.989	2.008	12.3
bis(2-Chloroethyl)ether		1.486	1.577	1.527	2.022	1.497	1.564	13.4
2-Chlorophenol		1.295	1.311	1.357	1.729	1.301	1.373	11.5
1,2-Dichlorobenzene		1.510	1.463	1.495	1.455	1.367	1.437	4.2
1,3-Dichlorobenzene		1.569	1.517	1.546	1.585	1.411	1.499	5.0
1,4-Dichlorobenzene		1.572	1.529	1.539	1.506	1.426	1.500	3.6
Benzyl Alcohol		1.238	1.270	1.351	1.324	1.346	1.312	3.2
2-Methylphenol		1.132	1.209	1.307	1.285	1.294	1.255	5.0
2,2-oxybis(1-Chloropropane)		1.382	1.483	1.459	1.327	1.310	1.361	6.1
Acetophenone		0.455	0.622	0.496	0.705	0.578	0.555	16.5
3+4-Methylphenols		1.602	1.667	1.865	1.787	1.533	1.733	7.6
n-Nitroso-di-n-propylamine	1.100	1.076	1.126	1.165	1.081	1.075	1.091	3.5
Nitrobenzene-d5		0.318	0.320	0.358	0.466	0.436	0.379	15.4
Hexachloroethane		0.688	0.505	0.669	0.609	0.538	0.608	11.0
Nitrobenzene		0.332	0.331	0.364	0.469	0.437	0.385	14.1
Isophorone		0.736	0.545	0.796	0.801	0.795	0.744	12.4
2-Nitrophenol		0.124	0.100	0.146	0.164	0.159	0.148	18.0
2,4-Dimethylphenol		0.202	0.156	0.224	0.229	0.225	0.213	12.5
bis(2-Chloroethoxy)methane		0.497	0.368	0.527	0.501	0.502	0.479	11.0
2,4-Dichlorophenol		0.250	0.202	0.288	0.306	0.290	0.277	13.7
1,2,4-Trichlorobenzene		0.338	0.264	0.337	0.336	0.309	0.320	8.5
Benzoic acid			0.144	0.230	0.257	0.266	0.244	21.6
Naphthalene		1.078	1.076	1.086	1.073	1.006	1.052	3.2
4-Chloroaniline		0.365	0.385	0.407	0.413	0.385	0.389	4.6
Hexachlorobutadiene		0.215	0.211	0.209	0.218	0.188	0.208	4.8
Caprolactam		0.100	0.107	0.119	0.127	0.128	0.120	9.7
4-Chloro-3-methylphenol		0.348	0.378	0.415	0.443	0.424	0.409	8.2
2-Methylnaphthalene		0.699	0.706	0.729	0.730	0.540	0.686	9.6
Hexachlorocyclopentadiene		0.159	0.168	0.176	0.197	0.135	0.171	11.8
2,4,6-Trichlorophenol		0.299	0.318	0.351	0.382	0.273	0.338	12.5

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG No.: BP090924

Instrument ID: Calibration Date(s): 9/9/2024 1:

Calibration Time(s): 10:06

LAB FILE ID: RRF2.5 = BP021859.D RRF005 = BP021860.D RRF010 = BP021861.D
RRF020 = BP021862.D RRF040 = BP021863.D RRF050 = BP021864.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.334	1.288	1.290	1.312	0.931	1.227	11.2
2,4,5-Trichlorophenol		0.345	0.365	0.393	0.435	0.314	0.385	11.8
1,1-Biphenyl		1.448	1.400	1.410	1.453	1.027	1.349	11.0
2-Chloronaphthalene		1.133	1.092	1.116	1.131	0.806	1.057	10.9
2-Nitroaniline		0.315	0.337	0.366	0.399	0.308	0.355	10.0
Dimethylphthalate		1.414	1.383	1.434	1.488	1.297	1.395	4.2
Acenaphthylene		1.522	1.566	1.664	1.691	1.563	1.605	3.7
2,6-Dinitrotoluene		0.265	0.289	0.314	0.332	0.306	0.308	7.8
3-Nitroaniline		0.243	0.279	0.319	0.347	0.312	0.308	11.7
Acenaphthene		1.045	1.044	1.077	1.090	0.985	1.041	3.4
2,4-Dinitrophenol			0.116	0.138	0.169	0.161	0.157	16.4
4-Nitrophenol		0.204	0.241	0.274	0.304	0.285	0.272	13.6
Dibenzofuran		1.724	1.685	1.702	1.718	1.539	1.654	4.3
2,4-Dinitrotoluene		0.328	0.376	0.423	0.478	0.442	0.425	12.8
Diethylphthalate		1.453	1.442	1.465	1.592	1.369	1.458	4.6
4-Chlorophenyl-phenylether		0.691	0.675	0.677	0.698	0.621	0.668	4.1
Fluorene		1.405	1.380	1.388	1.451	1.268	1.364	4.4
4-Nitroaniline		0.270	0.300	0.345	0.383	0.349	0.339	11.8
4,6-Dinitro-2-methylphenol		0.076	0.080	0.092	0.109	0.106	0.098	15.6
n-Nitrosodiphenylamine		0.519	0.529	0.536	0.551	0.510	0.525	3.0
Azobenzene		1.512	1.585	1.658	1.597	1.532	1.552	4.4
2,4,6-Tribromophenol		0.203	0.215	0.232	0.254	0.221	0.235	11.0
4-Bromophenyl-phenylether		0.185	0.182	0.187	0.194	0.184	0.189	4.2
Hexachlorobenzene		0.223	0.220	0.227	0.234	0.217	0.227	5.4
Atrazine		0.169	0.173	0.146	0.149	0.190	0.165	10.9
Pentachlorophenol		0.113	0.129	0.141	0.160	0.148	0.146	13.7
Phenanthrene		1.024	1.008	1.012	1.022	0.932	0.988	3.9
Anthracene		0.931	0.941	0.962	1.003	0.921	0.948	3.0
Carbazole		0.949	0.997	1.001	1.025	0.938	0.975	3.4
Di-n-butylphthalate		1.002	1.079	1.102	1.225	1.106	1.112	6.1
Fluoranthene		1.227	1.267	1.274	1.298	1.185	1.245	3.4
Benzidine			0.252	0.359	0.438	0.334	0.354	19.4
Pyrene		1.211	1.224	1.320	1.344	1.301	1.291	4.1
Terphenyl-d14		0.957	0.957	0.989	1.027	0.936	0.974	3.2
Butylbenzylphthalate		0.431	0.479	0.513	0.568	0.545	0.522	10.2
3,3-Dichlorobenzidine		0.354	0.378	0.414	0.445	0.417	0.411	8.4

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG No.: BP090924

Instrument ID: Calibration Date(s): 9/9/2024 1:

Calibration Time(s): 10:06

LAB FILE ID: RRF2.5 = BP021859.D RRF005 = BP021860.D RRF010 = BP021861.D
RRF020 = BP021862.D RRF040 = BP021863.D RRF050 = BP021864.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.238	1.257	1.293	1.315	1.233	1.268	2.3
Chrysene		1.227	1.226	1.250	1.248	1.169	1.215	2.6
Bis(2-ethylhexyl)phthalate		0.630	0.710	0.749	0.838	0.779	0.756	9.5
Di-n-octyl phthalate		0.990	1.147	1.196	1.395	1.318	1.232	12.8
Benzo(b)fluoranthene		1.116	1.113	1.185	1.200	1.118	1.159	3.6
Benzo(k)fluoranthene		1.098	1.094	1.140	1.154	1.077	1.106	2.7
Benzo(a)pyrene		0.940	0.941	1.018	1.045	0.979	0.996	4.3
Indeno(1,2,3-cd)pyrene		1.280	1.243	1.282	1.306	1.214	1.261	2.5
Dibenzo(a,h)anthracene		1.065	1.025	1.062	1.066	0.983	1.035	3.0
Benzo(g,h,i)perylene		1.095	1.062	1.093	1.132	1.048	1.085	2.5
1,2,4,5-Tetrachlorobenzene		0.544	0.532	0.545	0.564	0.392	0.525	11.4
1,4-Dioxane		0.922	0.631	0.865	0.797	0.560	0.757	18.2
2,3,4,6-Tetrachlorophenol		0.320	0.333	0.347	0.376	0.337	0.348	5.9
1-Methylnaphthalene		0.704	0.712	0.729	0.724	0.526	0.683	10.4

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG NO.: BP090924

EPA Sample No.: SSTDICCC040 Date Analyzed: Sep 9 2024 12:00AM

Lab File ID: BP021863.D Time Analyzed: 19:27

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	161182	7.758	568693	10.53	378217	14.38
	UPPER LIMIT	322364	8.258	1137386	11.034	756434	14.881
	LOWER LIMIT	80591	7.258	284346.5	10.034	189108.5	13.881
	EPA SAMPLE NO.						
01	ICVBP090924	172915	7.76	718472	10.53	490944	14.38
02	PB163214BL	214440	7.76	817062	10.53	482717	14.39

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG NO.: BP090924

EPA Sample No.: SSTDICCC040 Date Analyzed: Sep 9 2024 12:00AM

Lab File ID: BP021863.D Time Analyzed: 19:27

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	161182	7.758	568693	10.53	378217	14.38
	UPPER LIMIT	322364	8.258	1137386	11.034	756434	14.881
	LOWER LIMIT	80591	7.258	284346.5	10.034	189108.5	13.881
	EPA SAMPLE NO.						
01	ICVBP090924	172915	7.76	718472	10.53	490944	14.38
02	PB163214BL	214440	7.76	817062	10.53	482717	14.39

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG NO.: BP090924

EPA Sample No.: SSTDICCC040 Date Analyzed: Sep 9 2024 12:00AM

Lab File ID: BP021863.D Time Analyzed: 19:27

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	847066	17.169	866364	21.616	991783	24.962
	UPPER LIMIT	1694132	17.669	1732728	22.116	1983566	25.462
	LOWER LIMIT	423533	16.669	433182	21.116	495891.5	24.462
	EPA SAMPLE NO.						
01	ICVBP090924	1.09432	17.18	1.06677e+	21.60	1.2283e+0	24.94
02	PB163214BL	741617	17.18	683062	21.60	771383	24.95

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG NO.: BP090924

EPA Sample No.: SSTDICCC040 Date Analyzed: Sep 9 2024 12:00AM

Lab File ID: BP021863.D Time Analyzed: 19:27

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	847066	17.169	866364	21.616	991783	24.962
	UPPER LIMIT	1694132	17.669	1732728	22.116	1983566	25.462
	LOWER LIMIT	423533	16.669	433182	21.116	495891.5	24.462
	EPA SAMPLE NO.						
01	ICVBP090924	1.09432	17.18	1.06677e+	21.60	1.2283e+0	24.94
02	PB163214BL	741617	17.18	683062	21.60	771383	24.95

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.

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBP090924

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG NO.: BP090924

Lab File ID: BP021867.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_P Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 09/09/2024

Level: (low/med) LOW Time Analyzed: 19:27

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBP090924	SSTDICV040	BP021867.D	09/09/2024

COMMENTS:

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Fax : 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163214BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BP090924 SAS No.: BP090924 SDG NO.: BP090924

Lab File ID: BP021868.D Lab Sample ID: PB163214BL

Instrument ID: BNA_P Date Extracted: 09/09/2024

Matrix: (soil/water) Solid Date Analyzed: 09/09/2024

Level: (low/med) LOW Time Analyzed: 20:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: BP090924

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBP090924	BP021867.D	2-Fluorophenol	150	102,313.00	68209	*	10	139
			Phenol-d6	150	92,791.00	61861	*	10	134
			Nitrobenzene-d5	100	91,594.00	91594	*	49	133
			2-Fluorobiphenyl	100	82,493.00	82493	*	52	132
			2,4,6-Tribromophenol	150	85,703.00	57135	*	44	137
			Terphenyl-d14	100	84,179.00	84179	*	48	125

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Surrogate Summary

SW-846

SDG No.: BP090924

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB163214BL	PB163214BL	BP021868.D	2-Fluorophenol	150	141.27	94		18	112
			Phenol-d6	150	138.45	92		15	107
			Nitrobenzene-d5	100	114.56	115	*	18	107
			2-Fluorobiphenyl	100	103.89	104		20	109
			2,4,6-Tribromophenol	150	108.23	72		10	116
			Terphenyl-d14	100	107.99	108	*	10	105

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BP090924

Lab Code: CHEM SAS No.: BP090924 SDG NO.: BP090924

Lab File ID: BP021858.D DFTPP Injection Date: 09/09/2024

Instrument ID: BNA_P DFTPP Injection Time: 08:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	39.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	50.5
197	Less than 2.0% of mass 198	0.4
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	29.6
365	Greater than 1% of mass 198	5.3
441	Present, but less than mass 443	2.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.7 (19.7) 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
SSTDICC2.5	SSTDICC2.5	BP021859.D	09/09/2024	10:06
SSTDICC005	SSTDICC005	BP021860.D	09/09/2024	10:49
SSTDICC010	SSTDICC010	BP021861.D	09/09/2024	11:31
SSTDICC020	SSTDICC020	BP021862.D	09/09/2024	12:15
SSTDICCC040	SSTDICCC040	BP021863.D	09/09/2024	12:59
SSTDICC050	SSTDICC050	BP021864.D	09/09/2024	15:10
SSTDICC060	SSTDICC060	BP021865.D	09/09/2024	15:52
SSTDICC080	SSTDICC080	BP021866.D	09/09/2024	18:00
ICVBP090924	SSTDICV040	BP021867.D	09/09/2024	19:27
PB163214BL	PB163214BL	BP021868.D	09/09/2024	20:11