CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O3645	**OrderDate:**	7/17/2023 9:31:59 AM
Client:	LaBella Associates P.C.	**Project:**	Mackenna Parcels
Contact:	Andrew T. Benkleman	**Location:**	I11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O3645-01	**SB-02-(3-5)**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	07/28/23	
O3645-02	**SB-04-(1-5)**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/01/23	
O3645-03	**SB-07-(1-3)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	07/29/23	
O3645-04	**SB-08-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/01/23	
O3645-05	**SB-09-(2.0-4.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-06	**SB-10-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-06DL	**SB-10-(0.5-2.0)DL**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-07	**DUP**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-08	**RINSATE-BLANK**	**Water**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/17/23	07/28/23	

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Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : SB-02-(3-5)									
O3645-01	SB-02-(3-5)	SOIL	Dimethylphthalate		570.000		100	200	ug/Kg
			Total Svoc :		**570.00**				
O3645-01	SB-02-(3-5)	SOIL	Butane, 2-methoxy-2-methyl-	*	810.000	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Pentadecafluorooctanoic acid, oct	*	360.000	J	0	0	ug/Kg
			Total Tics :		**1,500.00**				
			Total Concentration:		**2,070.00**				
Client ID : SB-04-(1-5)									
O3645-02	SB-04-(1-5)	SOIL	Dimethylphthalate		150.000	J	97.1	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Phenanthrene		120.000	J	100	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Fluoranthene		150.000	J	100	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Pyrene		140.000	J	91.4	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Benzo(b)fluoranthene		130.000	J	87.7	190	ug/Kg
			Total Svoc :		**690.00**				
O3645-02	SB-04-(1-5)	SOIL	2,4,7,9-Tetramethyl-5-decyn-4,7-d	*	130.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	5-Eicosene, (E)-	*	230.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Benzo[e]pyrene	*	75.400	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Octadecanoic acid	*	75.400	J	0	0	ug/Kg
			Total Tics :		**710.80**				
			Total Concentration:		**1,400.80**				
Client ID : SB-07-(1-3)									
O3645-03	SB-07-(1-3)	SOIL	1-Heneicosanol	*	190.000	J	0	0	ug/Kg
O3645-03	SB-07-(1-3)	SOIL	Butane, 2-methoxy-2-methyl-	*	410.000	J	0	0	ug/Kg
O3645-03	SB-07-(1-3)	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
			Total Tics :		**800.00**				
			Total Concentration:		**800.00**				
Client ID : SB-08-(0.5-2.0)									
O3645-04	SB-08-(0.5-2.0)	SOIL	Dimethylphthalate		150.000	J	120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Phenanthrene		450.000		120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Fluoranthene		660.000		130	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Pyrene		610.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(a)anthracene		360.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Chrysene		370.000		120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(b)fluoranthene		500.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(k)fluoranthene		150.000	J	120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(a)pyrene		350.000		130	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Indeno(1,2,3-cd)pyrene		190.000	J	140	230	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(g,h,i)perylene		210.000	J	120	230	ug/Kg
			Total Svoc :		**4,000.00**				
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzaldehyde, 3,5-dichloro-2-hyd	*	120.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Dodecane, 2,7,10-trimethyl-	*	91.100	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo[e]pyrene	*	100.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Perylene	*	270.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Tetracosyl heptafluorobutyrate	*	140.000	J	0	0	ug/Kg
			Total Tics :		**1,031.10**				
			Total Concentration:		**5,031.10**				
Client ID :	**SB-09-(2.0-4.0)**								
O3645-05	SB-09-(2.0-4.0)	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	110.000	AB	0	0	ug/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	n-Hexadecanoic acid	*	110.000	J	0	0	ug/Kg
			Total Tics :		**220.00**				
			Total Concentration:		**220.00**				
Client ID :	**SB-10-(0.5-2.0)**								
O3645-06	SB-10-(0.5-2.0)	SOIL	Naphthalene		270.000		97.6	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	2-Methylnaphthalene		200.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dimethylphthalate		130.000	J	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Acenaphthylene		120.000	J	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Acenaphthene		260.000		96.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dibenzofuran		220.000		92.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Fluorene		290.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Phenanthrene		2,900.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Anthracene		790.000		120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Carbazole		430.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Di-n-butylphthalate		120.000	J	120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Fluoranthene		3,400.000	E	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Pyrene		3,100.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(a)anthracene		1,800.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Chrysene		1,900.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(b)fluoranthene		2,400.000		96.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(k)fluoranthene		880.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(a)pyrene		1,700.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Indeno(1,2,3-cd)pyrene		1,000.000		130	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dibenzo(a,h)anthracene		320.000		120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(g,h,i)perylene		1,200.000		110	200	ug/Kg
			Total Svoc :		**23,430.00**				
O3645-06	SB-10-(0.5-2.0)	SOIL	Anthracene, 2-methyl-	*	330.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo[e]pyrene	*	2,000.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dehydroabietic acid	*	260.000	J	0	0	ug/Kg

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Hit Summary Sheet
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SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
O3645-06	SB-10-(0.5-2.0)	SOIL	Eicosane	*	610.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Eicosane, 10-methyl-	*	390.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Heneicosane	*	950.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Heptadecane	*	2,000.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexacosane	*	510.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexadecane	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexathiane	*	310.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Naphthalene, 2-phenyl-	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Nonadecane	*	500.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Octadecanoic acid	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Pentacosane	*	580.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Perylene	*	2,400.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Sulfurous acid, butyl nonyl ester	*	290.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tetracosane	*	500.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tetradecane	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Triacontane	*	330.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tridecane, 6-propyl-	*	560.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	1-Methylnaphthalene	*	150.000	J	110	200	ug/Kg
			Total Tics :		**14,430.00**				
			Total Concentration:		**37,860.00**				
Client ID :	**SB-10-(0.5-2.0)DL**								
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Phenanthrene		3,500.000	D	560	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Anthracene		810.000	JD	610	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Fluoranthene		4,400.000	D	570	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Pyrene		3,100.000	D	500	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(a)anthracene		2,000.000	D	500	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Chrysene		1,900.000	D	520	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(b)fluoranthene		2,700.000	D	480	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(k)fluoranthene		820.000	JD	530	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(a)pyrene		1,800.000	D	570	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Indeno(1,2,3-cd)pyrene		970.000	JD	640	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(g,h,i)perylene		1,100.000	D	550	1000	ug/Kg
			Total Svoc :		**23,100.00**				
			Total Concentration:		**23,100.00**				
Client ID :	**DUP**								
O3645-07	DUP	SOIL	n-Hexadecanoic acid	*	130.000	J	0	0	ug/Kg
			Total Tics :		**130.00**				
			Total Concentration:		**130.00**				
Client ID :	**RINSATE-BLANK**								
O3645-08	RINSATE-BLANK	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	3.100	AB	0	0	ug/L
			Total Tics :		**3.10**				

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Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Concentration:	**3.10**				

CHEMTECH

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	380	U	170	380	ug/Kg
108-95-2	Phenol	200	U	86.1	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	200	U	100	200	ug/Kg
95-57-8	2-Chlorophenol	200	U	83.3	200	ug/Kg
95-48-7	2-Methylphenol	200	U	130	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	120	200	ug/Kg
98-86-2	Acetophenone	200	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	380	U	120	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	92.6	U	68.3	92.6	ug/Kg
67-72-1	Hexachloroethane	200	U	85.2	200	ug/Kg
98-95-3	Nitrobenzene	200	U	87.0	200	ug/Kg
78-59-1	Isophorone	200	U	78.8	200	ug/Kg
88-75-5	2-Nitrophenol	200	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	200	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	200	U	90.4	200	ug/Kg
91-20-3	Naphthalene	200	U	94.2	200	ug/Kg
106-47-8	4-Chloroaniline	200	U	120	200	ug/Kg
87-68-3	Hexachlorobutadiene	200	U	97.2	200	ug/Kg
105-60-2	Caprolactam	380	U	140	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	200	U	95.5	200	ug/Kg
91-57-6	2-Methylnaphthalene	200	U	110	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	380	U	240	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	200	U	89.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	200	U	100	200	ug/Kg
92-52-4	1,1-Biphenyl	200	U	110	200	ug/Kg
91-58-7	2-Chloronaphthalene	200	U	97.9	200	ug/Kg
88-74-4	2-Nitroaniline	200	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	570		100	200	ug/Kg
208-96-8	Acenaphthylene	200	U	100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	100	200	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	200	U	110	200	ug/Kg
83-32-9	Acenaphthene	200	U	92.9	200	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	210	380	ug/Kg
100-02-7	4-Nitrophenol	380	U	130	380	ug/Kg
132-64-9	Dibenzofuran	200	U	89.0	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	200	U	120	200	ug/Kg
84-66-2	Diethylphthalate	200	U	99.4	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	200	U	100	200	ug/Kg
86-73-7	Fluorene	200	U	98.1	200	ug/Kg
100-01-6	4-Nitroaniline	200	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	380	U	100	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	110	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	200	U	110	200	ug/Kg
118-74-1	Hexachlorobenzene	200	U	110	200	ug/Kg
1912-24-9	Atrazine	200	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	380	U	130	380	ug/Kg
85-01-8	Phenanthrene	200	U	110	200	ug/Kg
120-12-7	Anthracene	200	U	120	200	ug/Kg
86-74-8	Carbazole	200	U	98.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	200	U	120	200	ug/Kg
206-44-0	Fluoranthene	200	U	110	200	ug/Kg
129-00-0	Pyrene	200	U	96.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	120	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	380	U	190	380	ug/Kg
56-55-3	Benzo(a)anthracene	200	U	97.1	200	ug/Kg
218-01-9	Chrysene	200	U	100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	U	130	200	ug/Kg
117-84-0	Di-n-octyl phthalate	380	U	140	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	200	U	92.9	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	200	U	100	200	ug/Kg
50-32-8	Benzo(a)pyrene	200	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	200	U	120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	200	U	110	200	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	200	U	110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	100	200	ug/Kg
123-91-1	1,4-Dioxane	200	U	140	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	95.9	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		18 - 112	85%	SPK: 150
13127-88-3	Phenol-d6	125		21 - 104	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.7		27 - 109	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.6		30 - 103	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	99.7		10 - 121	66%	SPK: 150
1718-51-0	Terphenyl-d14	80.0		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	80500	6.834			
1146-65-2	Naphthalene-d8	306000	8.11			
15067-26-2	Acenaphthene-d10	133000	9.863			
1517-22-2	Phenanthrene-d10	192000	11.363			
1719-03-5	Chrysene-d12	143000	14.021			
1520-96-3	Perylene-d12	102000	15.521			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	810	J		2.13	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	360	J		13.9	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	360	U	160	360	ug/Kg
108-95-2	Phenol	190	U	81.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	U	98.1	190	ug/Kg
95-57-8	2-Chlorophenol	190	U	78.7	190	ug/Kg
95-48-7	2-Methylphenol	190	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	110	190	ug/Kg
98-86-2	Acetophenone	190	U	94.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	360	U	120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	87.4	U	64.5	87.4	ug/Kg
67-72-1	Hexachloroethane	190	U	80.4	190	ug/Kg
98-95-3	Nitrobenzene	190	U	82.1	190	ug/Kg
78-59-1	Isophorone	190	U	74.4	190	ug/Kg
88-75-5	2-Nitrophenol	190	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	190	U	85.3	190	ug/Kg
91-20-3	Naphthalene	190	U	88.9	190	ug/Kg
106-47-8	4-Chloroaniline	190	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	190	U	91.8	190	ug/Kg
105-60-2	Caprolactam	360	U	130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	190	U	90.1	190	ug/Kg
91-57-6	2-Methylnaphthalene	190	U	100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	360	U	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	190	U	84.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	190	U	96.0	190	ug/Kg
92-52-4	1,1-Biphenyl	190	U	99.7	190	ug/Kg
91-58-7	2-Chloronaphthalene	190	U	92.4	190	ug/Kg
88-74-4	2-Nitroaniline	190	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	150	J	97.1	190	ug/Kg
208-96-8	Acenaphthylene	190	U	96.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	98.3	190	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	190	U	100	190	ug/Kg
83-32-9	Acenaphthene	190	U	87.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	360	U	200	360	ug/Kg
100-02-7	4-Nitrophenol	360	U	120	360	ug/Kg
132-64-9	Dibenzofuran	190	U	84.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	U	110	190	ug/Kg
84-66-2	Diethylphthalate	190	U	93.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	U	98.8	190	ug/Kg
86-73-7	Fluorene	190	U	92.6	190	ug/Kg
100-01-6	4-Nitroaniline	190	U	110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	360	U	95.9	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	190	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	190	U	110	190	ug/Kg
1912-24-9	Atrazine	190	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	360	U	120	360	ug/Kg
85-01-8	Phenanthrene	120	J	100	190	ug/Kg
120-12-7	Anthracene	190	U	110	190	ug/Kg
86-74-8	Carbazole	190	U	92.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	190	U	110	190	ug/Kg
206-44-0	Fluoranthene	150	J	100	190	ug/Kg
129-00-0	Pyrene	140	J	91.4	190	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	360	U	180	360	ug/Kg
56-55-3	Benzo(a)anthracene	190	U	91.7	190	ug/Kg
218-01-9	Chrysene	190	U	94.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	360	U	130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	87.7	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	190	U	96.2	190	ug/Kg
50-32-8	Benzo(a)pyrene	190	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190	U	120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	190	U	110	190	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	190	U	100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	97.7	190	ug/Kg
123-91-1	1,4-Dioxane	190	U	130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	90.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.7		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.6		27 - 109	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.3		30 - 103	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		10 - 121	73%	SPK: 150
1718-51-0	Terphenyl-d14	80.3		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.792			
1146-65-2	Naphthalene-d8	825000	8.069			
15067-26-2	Acenaphthene-d10	411000	9.822			
1517-22-2	Phenanthrene-d10	731000	11.31			
1719-03-5	Chrysene-d12	405000	13.951			
1520-96-3	Perylene-d12	445000	15.409			
TENTATIVE IDENTIFIED COMPOUNDS						
000126-86-3	2,4,7,9-Tetramethyl-5-decyn-4,7-di	130	J		9.27	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	75.4	J		12.6	ug/Kg
074685-30-6	5-Eicosene, (E)-	230	J		13.8	ug/Kg
000192-97-2	Benzo[e]pyrene	75.4	J		15.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	410	U	190	410	ug/Kg
108-95-2	Phenol	210	U	93.4	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	90.4	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	410	U	140	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	74.0	100	ug/Kg
67-72-1	Hexachloroethane	210	U	92.4	210	ug/Kg
98-95-3	Nitrobenzene	210	U	94.4	210	ug/Kg
78-59-1	Isophorone	210	U	85.5	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	98.0	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	110	210	ug/Kg
105-60-2	Caprolactam	410	U	150	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	410	U	260	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	96.8	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	110	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	230	410	ug/Kg
100-02-7	4-Nitrophenol	410	U	140	410	ug/Kg
132-64-9	Dibenzofuran	210	U	96.5	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	130	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	410	U	110	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	410	U	140	410	ug/Kg
85-01-8	Phenanthrene	210	U	120	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	110	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	410	U	200	410	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	110	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	410	U	150	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	100	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	120	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	150	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.7		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	77.7		21 - 104	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.1		27 - 109	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.1		30 - 103	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	66.0		10 - 121	44%	SPK: 150
1718-51-0	Terphenyl-d14	57.2		21 - 107	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	99600	6.828			
1146-65-2	Naphthalene-d8	368000	8.11			
15067-26-2	Acenaphthene-d10	164000	9.863			
1517-22-2	Phenanthrene-d10	267000	11.357			
1719-03-5	Chrysene-d12	176000	14.016			
1520-96-3	Perylene-d12	152000	15.515			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	410	J		2.13	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
015594-90-8	1-Heneicosanol	190	J		13.9	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	440	U	200	440	ug/Kg
108-95-2	Phenol	230	U	99.7	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	230	U	120	230	ug/Kg
95-57-8	2-Chlorophenol	230	U	96.5	230	ug/Kg
95-48-7	2-Methylphenol	230	U	150	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	140	230	ug/Kg
98-86-2	Acetophenone	230	U	120	230	ug/Kg
65794-96-9	3+4-Methylphenols	440	U	140	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	110	U	79.1	110	ug/Kg
67-72-1	Hexachloroethane	230	U	98.6	230	ug/Kg
98-95-3	Nitrobenzene	230	U	100	230	ug/Kg
78-59-1	Isophorone	230	U	91.3	230	ug/Kg
88-75-5	2-Nitrophenol	230	U	130	230	ug/Kg
105-67-9	2,4-Dimethylphenol	230	U	130	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	230	U	150	230	ug/Kg
120-83-2	2,4-Dichlorophenol	230	U	100	230	ug/Kg
91-20-3	Naphthalene	230	U	110	230	ug/Kg
106-47-8	4-Chloroaniline	230	U	140	230	ug/Kg
87-68-3	Hexachlorobutadiene	230	U	110	230	ug/Kg
105-60-2	Caprolactam	440	U	160	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	230	U	110	230	ug/Kg
91-57-6	2-Methylnaphthalene	230	U	130	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	440	U	280	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	230	U	100	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	230	U	120	230	ug/Kg
92-52-4	1,1-Biphenyl	230	U	120	230	ug/Kg
91-58-7	2-Chloronaphthalene	230	U	110	230	ug/Kg
88-74-4	2-Nitroaniline	230	U	130	230	ug/Kg
131-11-3	Dimethylphthalate	150	J	120	230	ug/Kg
208-96-8	Acenaphthylene	230	U	120	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	230	U	120	230	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	230	U	130	230	ug/Kg
83-32-9	Acenaphthene	230	U	110	230	ug/Kg
51-28-5	2,4-Dinitrophenol	440	U	240	440	ug/Kg
100-02-7	4-Nitrophenol	440	U	150	440	ug/Kg
132-64-9	Dibenzofuran	230	U	100	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	230	U	130	230	ug/Kg
84-66-2	Diethylphthalate	230	U	120	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	230	U	120	230	ug/Kg
86-73-7	Fluorene	230	U	110	230	ug/Kg
100-01-6	4-Nitroaniline	230	U	140	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	440	U	120	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	230	U	130	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	230	U	130	230	ug/Kg
118-74-1	Hexachlorobenzene	230	U	130	230	ug/Kg
1912-24-9	Atrazine	230	U	130	230	ug/Kg
87-86-5	Pentachlorophenol	440	U	150	440	ug/Kg
85-01-8	Phenanthrene	450		120	230	ug/Kg
120-12-7	Anthracene	230	U	140	230	ug/Kg
86-74-8	Carbazole	230	U	110	230	ug/Kg
84-74-2	Di-n-butylphthalate	230	U	140	230	ug/Kg
206-44-0	Fluoranthene	660		130	230	ug/Kg
129-00-0	Pyrene	610		110	230	ug/Kg
85-68-7	Butylbenzylphthalate	230	U	140	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	440	U	220	440	ug/Kg
56-55-3	Benzo(a)anthracene	360		110	230	ug/Kg
218-01-9	Chrysene	370		120	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	230	U	150	230	ug/Kg
117-84-0	Di-n-octyl phthalate	440	U	160	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	500		110	230	ug/Kg
207-08-9	Benzo(k)fluoranthene	150	J	120	230	ug/Kg
50-32-8	Benzo(a)pyrene	350		130	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190	J	140	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	230	U	130	230	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	J	120	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	120	230	ug/Kg
123-91-1	1,4-Dioxane	230	U	160	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	110	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	94.6		18 - 112	63%	SPK: 150
13127-88-3	Phenol-d6	94.3		21 - 104	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.6		27 - 109	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.8		30 - 103	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.0		10 - 121	64%	SPK: 150
1718-51-0	Terphenyl-d14	65.2		21 - 107	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.792			
1146-65-2	Naphthalene-d8	737000	8.069			
15067-26-2	Acenaphthene-d10	366000	9.822			
1517-22-2	Phenanthrene-d10	647000	11.31			
1719-03-5	Chrysene-d12	366000	13.951			
1520-96-3	Perylene-d12	423000	15.41			
TENTATIVE IDENTIFIED COMPOUNDS						
074645-98-0	Dodecane, 2,7,10-trimethyl-	91.1	J		10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		11.9	ug/Kg
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	120	J		11.9	ug/Kg
1000351-83-7	Tetracosyl heptafluorobutyrate	140	J		13.8	ug/Kg
000192-97-2	Benzo[e]pyrene	100	J		15.1	ug/Kg
000198-55-0	Perylene	270	J		15.3	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	420	U	190	420	ug/Kg
108-95-2	Phenol	210	U	93.6	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	90.6	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	420	U	140	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	74.2	100	ug/Kg
67-72-1	Hexachloroethane	210	U	92.6	210	ug/Kg
98-95-3	Nitrobenzene	210	U	94.6	210	ug/Kg
78-59-1	Isophorone	210	U	85.7	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	130	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	98.3	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	110	210	ug/Kg
105-60-2	Caprolactam	420	U	150	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	420	U	260	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	97.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	110	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	420	U	230	420	ug/Kg
100-02-7	4-Nitrophenol	420	U	140	420	ug/Kg
132-64-9	Dibenzofuran	210	U	96.8	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	130	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	420	U	110	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	420	U	140	420	ug/Kg
85-01-8	Phenanthrene	210	U	120	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	110	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	420	U	200	420	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	110	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	420	U	150	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	100	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	120	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	150	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	112		18 - 112	74%	SPK: 150
13127-88-3	Phenol-d6	111		15 - 107	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.6		18 - 107	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.9		20 - 109	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.4		10 - 110	62%	SPK: 150
1718-51-0	Terphenyl-d14	73.5		14 - 112	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	58200	7.814			
1146-65-2	Naphthalene-d8	255000	10.617			
15067-26-2	Acenaphthene-d10	173000	14.459			
1517-22-2	Phenanthrene-d10	389000	17.209			
1719-03-5	Chrysene-d12	336000	21.451			
1520-96-3	Perylene-d12	415000	24.524			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	110	AB		4.91	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		18.1	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	400	U	180	400	ug/Kg
108-95-2	Phenol	200	U	89.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	200	U	110	200	ug/Kg
95-57-8	2-Chlorophenol	200	U	86.3	200	ug/Kg
95-48-7	2-Methylphenol	200	U	140	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	130	200	ug/Kg
98-86-2	Acetophenone	200	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	400	U	130	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	95.9	U	70.7	95.9	ug/Kg
67-72-1	Hexachloroethane	200	U	88.2	200	ug/Kg
98-95-3	Nitrobenzene	200	U	90.1	200	ug/Kg
78-59-1	Isophorone	200	U	81.6	200	ug/Kg
88-75-5	2-Nitrophenol	200	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	200	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	200	U	93.6	200	ug/Kg
91-20-3	Naphthalene	270		97.6	200	ug/Kg
106-47-8	4-Chloroaniline	200	U	130	200	ug/Kg
87-68-3	Hexachlorobutadiene	200	U	100	200	ug/Kg
105-60-2	Caprolactam	400	U	140	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	200	U	98.9	200	ug/Kg
91-57-6	2-Methylnaphthalene	200		110	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	400	U	250	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	200	U	92.4	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	200	U	110	200	ug/Kg
92-52-4	1,1-Biphenyl	200	U	110	200	ug/Kg
91-58-7	2-Chloronaphthalene	200	U	100	200	ug/Kg
88-74-4	2-Nitroaniline	200	U	120	200	ug/Kg
131-11-3	Dimethylphthalate	130	J	110	200	ug/Kg
208-96-8	Acenaphthylene	120	J	110	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	110	200	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	200	U	110	200	ug/Kg
83-32-9	Acenaphthene	260		96.2	200	ug/Kg
51-28-5	2,4-Dinitrophenol	400	U	220	400	ug/Kg
100-02-7	4-Nitrophenol	400	U	140	400	ug/Kg
132-64-9	Dibenzofuran	220		92.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	200	U	120	200	ug/Kg
84-66-2	Diethylphthalate	200	U	100	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	200	U	110	200	ug/Kg
86-73-7	Fluorene	290		100	200	ug/Kg
100-01-6	4-Nitroaniline	200	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	400	U	110	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	110	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	200	U	120	200	ug/Kg
118-74-1	Hexachlorobenzene	200	U	120	200	ug/Kg
1912-24-9	Atrazine	200	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	400	U	130	400	ug/Kg
85-01-8	Phenanthrene	2900		110	200	ug/Kg
120-12-7	Anthracene	790		120	200	ug/Kg
86-74-8	Carbazole	430		100	200	ug/Kg
84-74-2	Di-n-butylphthalate	120	J	120	200	ug/Kg
206-44-0	Fluoranthene	3400	E	110	200	ug/Kg
129-00-0	Pyrene	3100		100	200	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	120	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	400	U	190	400	ug/Kg
56-55-3	Benzo(a)anthracene	1800		100	200	ug/Kg
218-01-9	Chrysene	1900		100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	U	140	200	ug/Kg
117-84-0	Di-n-octyl phthalate	400	U	150	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	2400		96.2	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	880		110	200	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		130	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	320		120	200	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1200		110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	110	200	ug/Kg
123-91-1	1,4-Dioxane	200	U	140	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	99.4	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		18 - 112	70%	SPK: 150
13127-88-3	Phenol-d6	103		21 - 104	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		27 - 109	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.6		30 - 103	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 121	70%	SPK: 150
1718-51-0	Terphenyl-d14	86.5		21 - 107	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	186000	6.793			
1146-65-2	Naphthalene-d8	688000	8.069			
15067-26-2	Acenaphthene-d10	289000	9.828			
1517-22-2	Phenanthrene-d10	478000	11.316			
1719-03-5	Chrysene-d12	297000	13.969			
1520-96-3	Perylene-d12	259000	15.427			
TENTATIVE IDENTIFIED COMPOUNDS						
90-12-0	1-Methylnaphthalene	150	J		8.88	ug/Kg
000544-76-3	Hexadecane	440	J		9.23	ug/Kg
1000309-17-6	Sulfurous acid, butyl nonyl ester	290	J		9.77	ug/Kg
013798-23-7	Hexathiane	310	J		10.1	ug/Kg
055045-10-8	Tridecane, 6-propyl-	560	J		10.7	ug/Kg
000629-59-4	Tetradecane	440	J		11.2	ug/Kg
000629-92-5	Nonadecane	500	J		11.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	330	J		11.8	ug/Kg
000112-95-8	Eicosane	610	J		12.0	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	440	J		12.1	ug/Kg
000629-94-7	Heneicosane	950	J		12.4	ug/Kg
000057-11-4	Octadecanoic acid	440	J		12.7	ug/Kg
000629-99-2	Pentacosane	580	J		13.2	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000630-01-3	Hexacosane	510	J		13.5	ug/Kg
001740-19-8	Dehydroabietic acid	260	J		13.8	ug/Kg
000646-31-1	Tetracosane	500	J		13.8	ug/Kg
054833-23-7	Eicosane, 10-methyl-	390	J		14.2	ug/Kg
000638-68-6	Triacontane	330	J		14.5	ug/Kg
000629-78-7	Heptadecane	2000	J		14.8	ug/Kg
000192-97-2	Benzo[e]pyrene	2000	J		15.1	ug/Kg
000198-55-0	Perylene	2400	J		15.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	2000	UD	890	2000	ug/Kg
108-95-2	Phenol	1000	UD	450	1000	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1000	UD	540	1000	ug/Kg
95-57-8	2-Chlorophenol	1000	UD	430	1000	ug/Kg
95-48-7	2-Methylphenol	1000	UD	680	1000	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000	UD	630	1000	ug/Kg
98-86-2	Acetophenone	1000	UD	520	1000	ug/Kg
65794-96-9	3+4-Methylphenols	2000	UD	650	2000	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	480	UD	350	480	ug/Kg
67-72-1	Hexachloroethane	1000	UD	440	1000	ug/Kg
98-95-3	Nitrobenzene	1000	UD	450	1000	ug/Kg
78-59-1	Isophorone	1000	UD	410	1000	ug/Kg
88-75-5	2-Nitrophenol	1000	UD	570	1000	ug/Kg
105-67-9	2,4-Dimethylphenol	1000	UD	600	1000	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1000	UD	670	1000	ug/Kg
120-83-2	2,4-Dichlorophenol	1000	UD	470	1000	ug/Kg
91-20-3	Naphthalene	1000	UD	490	1000	ug/Kg
106-47-8	4-Chloroaniline	1000	UD	630	1000	ug/Kg
87-68-3	Hexachlorobutadiene	1000	UD	500	1000	ug/Kg
105-60-2	Caprolactam	2000	UD	700	2000	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1000	UD	490	1000	ug/Kg
91-57-6	2-Methylnaphthalene	1000	UD	570	1000	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2000	UD	1300	2000	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000	UD	460	1000	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1000	UD	530	1000	ug/Kg
92-52-4	1,1-Biphenyl	1000	UD	550	1000	ug/Kg
91-58-7	2-Chloronaphthalene	1000	UD	510	1000	ug/Kg
88-74-4	2-Nitroaniline	1000	UD	600	1000	ug/Kg
131-11-3	Dimethylphthalate	1000	UD	530	1000	ug/Kg
208-96-8	Acenaphthylene	1000	UD	530	1000	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000	UD	540	1000	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1000	UD	560	1000	ug/Kg
83-32-9	Acenaphthene	1000	UD	480	1000	ug/Kg
51-28-5	2,4-Dinitrophenol	2000	UD	1100	2000	ug/Kg
100-02-7	4-Nitrophenol	2000	UD	680	2000	ug/Kg
132-64-9	Dibenzofuran	1000	UD	460	1000	ug/Kg
121-14-2	2,4-Dinitrotoluene	1000	UD	600	1000	ug/Kg
84-66-2	Diethylphthalate	1000	UD	510	1000	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1000	UD	540	1000	ug/Kg
86-73-7	Fluorene	1000	UD	510	1000	ug/Kg
100-01-6	4-Nitroaniline	1000	UD	620	1000	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000	UD	530	2000	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1000	UD	560	1000	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000	UD	580	1000	ug/Kg
118-74-1	Hexachlorobenzene	1000	UD	590	1000	ug/Kg
1912-24-9	Atrazine	1000	UD	570	1000	ug/Kg
87-86-5	Pentachlorophenol	2000	UD	670	2000	ug/Kg
85-01-8	Phenanthrene	3500	D	560	1000	ug/Kg
120-12-7	Anthracene	810	JD	610	1000	ug/Kg
86-74-8	Carbazole	1000	UD	510	1000	ug/Kg
84-74-2	Di-n-butylphthalate	1000	UD	620	1000	ug/Kg
206-44-0	Fluoranthene	4400	D	570	1000	ug/Kg
129-00-0	Pyrene	3100	D	500	1000	ug/Kg
85-68-7	Butylbenzylphthalate	1000	UD	620	1000	ug/Kg
91-94-1	3,3-Dichlorobenzidine	2000	UD	960	2000	ug/Kg
56-55-3	Benzo(a)anthracene	2000	D	500	1000	ug/Kg
218-01-9	Chrysene	1900	D	520	1000	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1000	UD	690	1000	ug/Kg
117-84-0	Di-n-octyl phthalate	2000	UD	740	2000	ug/Kg
205-99-2	Benzo(b)fluoranthene	2700	D	480	1000	ug/Kg
207-08-9	Benzo(k)fluoranthene	820	JD	530	1000	ug/Kg
50-32-8	Benzo(a)pyrene	1800	D	570	1000	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	970	JD	640	1000	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000	UD	580	1000	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1100	D	550	1000	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1000	UD	540	1000	ug/Kg
123-91-1	1,4-Dioxane	1000	UD	700	1000	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000	UD	500	1000	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		18 - 112	79%	SPK: 150
13127-88-3	Phenol-d6	119		21 - 104	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.3		27 - 109	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	106	*	30 - 103	106%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 121	69%	SPK: 150
1718-51-0	Terphenyl-d14	84.8		21 - 107	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	176000	6.792			
1146-65-2	Naphthalene-d8	669000	8.069			
15067-26-2	Acenaphthene-d10	288000	9.822			
1517-22-2	Phenanthrene-d10	447000	11.31			
1719-03-5	Chrysene-d12	336000	13.957			
1520-96-3	Perylene-d12	267000	15.415			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	410	U	180	410	ug/Kg
108-95-2	Phenol	210	U	92.0	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	89.0	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	410	U	130	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	98.9	U	73.0	98.9	ug/Kg
67-72-1	Hexachloroethane	210	U	91.0	210	ug/Kg
98-95-3	Nitrobenzene	210	U	93.0	210	ug/Kg
78-59-1	Isophorone	210	U	84.2	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	96.6	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	100	210	ug/Kg
105-60-2	Caprolactam	410	U	140	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	410	U	260	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	95.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	99.3	210	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	220	410	ug/Kg
100-02-7	4-Nitrophenol	410	U	140	410	ug/Kg
132-64-9	Dibenzofuran	210	U	95.1	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	120	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	410	U	110	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	410	U	140	410	ug/Kg
85-01-8	Phenanthrene	210	U	110	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	410	U	200	410	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	100	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	410	U	150	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	99.3	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	110	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	118		15 - 107	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.1		18 - 107	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.9		20 - 109	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	97.4		10 - 110	65%	SPK: 150
1718-51-0	Terphenyl-d14	76.5		14 - 112	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54100	7.811			
1146-65-2	Naphthalene-d8	235000	10.614			
15067-26-2	Acenaphthene-d10	165000	14.462			
1517-22-2	Phenanthrene-d10	370000	17.206			
1719-03-5	Chrysene-d12	322000	21.448			
1520-96-3	Perylene-d12	402000	24.521			
TENTATIVE IDENTIFIED COMPOUNDS						
000057-10-3	n-Hexadecanoic acid	130	J		18.1	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 10:17	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	UQ	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	UQ	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 08:30	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	UQ	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	UQ	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 08:30	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.5		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	33.2		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	142	*	49 - 133	142%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		52 - 132	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.3		45 - 141	66%	SPK: 150
1718-51-0	Terphenyl-d14	98.8		45 - 142	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	116000	6.828			
1146-65-2	Naphthalene-d8	262000	8.11			
15067-26-2	Acenaphthene-d10	137000	9.863			
1517-22-2	Phenanthrene-d10	224000	11.357			
1719-03-5	Chrysene-d12	150000	14.015			
1520-96-3	Perylene-d12	126000	15.515			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.10	AB		5.07	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-08	RINSATE-BLANK	2-Fluorophenol	150	54.5	36		10	139
		Phenol-d6	150	33.2	22		10	134
		Nitrobenzene-d5	100	142	142	*	49	133
		2-Fluorobiphenyl	100	93.9	94		52	132
		2,4,6-Tribromophenol	150	98.3	66		45	141
		Terphenyl-d14	100	98.8	99		45	142
PB154218BL	PB154218BL	2-Fluorophenol	150	143	96		10	139
		Phenol-d6	150	135	90		10	134
		Nitrobenzene-d5	100	92.0	92		49	133
		2-Fluorobiphenyl	100	89.5	89		52	132
		2,4,6-Tribromophenol	150	110	74		45	141
		Terphenyl-d14	100	102	102		45	142
PB154218BS	PB154218BS	2-Fluorophenol	150	175	116		10	139
		Phenol-d6	150	166	111		10	134
		Nitrobenzene-d5	100	107	107		49	133
		2-Fluorobiphenyl	100	101	101		52	132
		2,4,6-Tribromophenol	150	135	90		45	141
		Terphenyl-d14	100	113	113		45	142
PB154218BSD	PB154218BSD	2-Fluorophenol	150	175	117		10	139
		Phenol-d6	150	165	110		10	134
		Nitrobenzene-d5	100	107	107		49	133
		2-Fluorobiphenyl	100	101	101		52	132
		2,4,6-Tribromophenol	150	136	91		45	141
		Terphenyl-d14	100	112	112		45	142

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Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-01	SB-02-(3-5)	2-Fluorophenol	150	127	85		18	112
		Phenol-d6	150	125	83		21	104
		Nitrobenzene-d5	100	77.7	78		27	109
		2-Fluorobiphenyl	100	86.6	87		30	103
		2,4,6-Tribromophenol	150	99.7	66		10	121
		Terphenyl-d14	100	80.0	80		21	107
O3645-02	SB-04-(1-5)	2-Fluorophenol	150	98.7	66		18	112
		Phenol-d6	150	101	67		21	104
		Nitrobenzene-d5	100	77.6	78		27	109
		2-Fluorobiphenyl	100	72.3	72		30	103
		2,4,6-Tribromophenol	150	110	73		10	121
		Terphenyl-d14	100	80.3	80		21	107
O3645-03	SB-07-(1-3)	2-Fluorophenol	150	79.7	53		18	112
		Phenol-d6	150	77.7	52		21	104
		Nitrobenzene-d5	100	52.1	52		27	109
		2-Fluorobiphenyl	100	53.1	53		30	103
		2,4,6-Tribromophenol	150	66.0	44		10	121
		Terphenyl-d14	100	57.2	57		21	107
O3645-04	SB-08-(0.5-2.0)	2-Fluorophenol	150	94.6	63		18	112
		Phenol-d6	150	94.3	63		21	104
		Nitrobenzene-d5	100	72.6	73		27	109
		2-Fluorobiphenyl	100	65.8	66		30	103
		2,4,6-Tribromophenol	150	96.0	64		10	121
		Terphenyl-d14	100	65.2	65		21	107
O3645-05	SB-09-(2.0-4.0)	2-Fluorophenol	150	112	74		18	112
		Phenol-d6	150	111	74		15	107
		Nitrobenzene-d5	100	67.6	68		18	107
		2-Fluorobiphenyl	100	67.9	68		20	109
		2,4,6-Tribromophenol	150	93.4	62		10	110
		Terphenyl-d14	100	73.5	74		14	112
O3645-06	SB-10-(0.5-2.0)	2-Fluorophenol	150	104	70		18	112
		Phenol-d6	150	103	69		21	104
		Nitrobenzene-d5	100	87.4	87		27	109
		2-Fluorobiphenyl	100	86.6	87		30	103
		2,4,6-Tribromophenol	150	106	70		10	121
		Terphenyl-d14	100	86.5	86		21	107
O3645-06DL	SB-10-(0.5-2.0)DL	2-Fluorophenol	150	119	79		18	112
		Phenol-d6	150	119	79		21	104
		Nitrobenzene-d5	100	91.3	91		27	109
		2-Fluorobiphenyl	100	106	106	*	30	103
		2,4,6-Tribromophenol	150	104	69		10	121
		Terphenyl-d14	100	84.8	85		21	107
O3645-07	DUP	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	118	78		15	107
		Nitrobenzene-d5	100	72.1	72		18	107
		2-Fluorobiphenyl	100	70.9	71		20	109
		2,4,6-Tribromophenol	150	97.4	65		10	110
		Terphenyl-d14	100	76.5	76		14	112
O3645-09MS	SB-04-(1-5)MS	2-Fluorophenol	150	98.9	66		18	112
		Phenol-d6	150	101	68		21	104
		Nitrobenzene-d5	100	64.1	64		27	109
		2-Fluorobiphenyl	100	63.7	64		30	103

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Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-09MS	SB-04-(1-5)MS	2,4,6-Tribromophenol	150	104	70		10	121
		Terphenyl-d14	100	70.4	70		21	107
O3645-10MSD	SB-04-(1-5)MSD	2-Fluorophenol	150	98.6	66		18	112
		Phenol-d6	150	101	68		21	104
		Nitrobenzene-d5	100	65.1	65		27	109
		2-Fluorobiphenyl	100	65.3	65		30	103
		2,4,6-Tribromophenol	150	106	71		10	121
		Terphenyl-d14	100	71.1	71		21	107
PB154258BL	PB154258BL	2-Fluorophenol	150	163	109		18	112
		Phenol-d6	150	128	85		21	104
		Nitrobenzene-d5	100	92.1	92		27	109
		2-Fluorobiphenyl	100	89.6	90		30	103
		2,4,6-Tribromophenol	150	149	100		10	121
		Terphenyl-d14	100	84.1	84		21	107
PB154258BS	PB154258BS	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	116	77		21	104
		Nitrobenzene-d5	100	80.7	81		27	109
		2-Fluorobiphenyl	100	83.8	84		30	103
		2,4,6-Tribromophenol	150	127	85		10	121
		Terphenyl-d14	100	80.1	80		21	107

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: O3645-09MS		**Client Sample ID: SB-04-(1-5)MS**						**DataFile: BM041174.D**			
Benzaldehyde	1800	0	1700	ug/Kg	94				26	163	
Phenol	1800	0	1800	ug/Kg	100				67	126	
bis(2-Chloroethyl)ether	1800	0	1700	ug/Kg	94				74	116	
2-Chlorophenol	1800	0	1700	ug/Kg	94				61	138	
2-Methylphenol	1800	0	1600	ug/Kg	89				66	122	
2,2-oxybis(1-Chloropropane)	1800	0	1700	ug/Kg	94				52	115	
Acetophenone	1800	0	1600	ug/Kg	89				75	111	
3+4-Methylphenols	1800	0	1700	ug/Kg	94				53	132	
N-Nitroso-di-n-propylamine	1800	0	1700	ug/Kg	94				59	119	
Hexachloroethane	1800	0	1700	ug/Kg	94				65	117	
Nitrobenzene	1800	0	1600	ug/Kg	89				70	119	
Isophorone	1800	0	1600	ug/Kg	89				76	122	
2-Nitrophenol	1800	0	1700	ug/Kg	94				54	145	
2,4-Dimethylphenol	1800	0	1700	ug/Kg	94				83	144	
bis(2-Chloroethoxy)methane	1800	0	1600	ug/Kg	89				68	112	
2,4-Dichlorophenol	1800	0	1700	ug/Kg	94				72	118	
Naphthalene	1800	0	1600	ug/Kg	89				72	110	
4-Chloroaniline	1800	0	1400	ug/Kg	78				10	100	
Hexachlorobutadiene	1800	0	1600	ug/Kg	89				66	114	
Caprolactam	1800	0	1800	ug/Kg	100				51	134	
4-Chloro-3-methylphenol	1800	0	1700	ug/Kg	94				57	132	
2-Methylnaphthalene	1800	0	1600	ug/Kg	89				59	123	
Hexachlorocyclopentadiene	3600	0	3400	ug/Kg	94				10	175	
2,4,6-Trichlorophenol	1800	0	1700	ug/Kg	94				72	117	
2,4,5-Trichlorophenol	1800	0	1600	ug/Kg	89				72	117	
1,1-Biphenyl	1800	0	1600	ug/Kg	89				75	113	
2-Chloronaphthalene	1800	0	1700	ug/Kg	94				67	118	
2-Nitroaniline	1800	0	1700	ug/Kg	94				69	127	
Dimethylphthalate	1800	150	1800	ug/Kg	92				70	113	
Acenaphthylene	1800	0	1600	ug/Kg	89				79	118	
2,6-Dinitrotoluene	1800	0	1700	ug/Kg	94				70	125	
3-Nitroaniline	1800	0	1500	ug/Kg	83				20	111	
Acenaphthene	1800	0	1600	ug/Kg	89				70	121	
2,4-Dinitrophenol	3600	0	3000	ug/Kg	83				16	160	
4-Nitrophenol	3600	0	4100	ug/Kg	114				45	133	
Dibenzofuran	1800	0	1600	ug/Kg	89				72	110	
2,4-Dinitrotoluene	1800	0	1600	ug/Kg	89				55	128	
Diethylphthalate	1800	0	1700	ug/Kg	94				70	112	
4-Chlorophenyl-phenylether	1800	0	1600	ug/Kg	89				71	108	
Fluorene	1800	0	1700	ug/Kg	94				68	116	
4-Nitroaniline	1800	0	1500	ug/Kg	83				55	120	
4,6-Dinitro-2-methylphenol	1800	0	1500	ug/Kg	83				32	145	
N-Nitrosodiphenylamine	1800	0	1600	ug/Kg	89				73	118	
4-Bromophenyl-phenylether	1800	0	1600	ug/Kg	89				65	121	
Hexachlorobenzene	1800	0	1700	ug/Kg	94				67	118	
Atrazine	1800	0	2100	ug/Kg	117				79	127	
Pentachlorophenol	3600	0	3300	ug/Kg	92				47	128	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Phenanthrene	1800	120	1700	ug/Kg	88				72	113	
Anthracene	1800	0	1700	ug/Kg	94				62	124	
Carbazole	1800	0	1700	ug/Kg	94				59	119	
Di-n-butylphthalate	1800	0	1800	ug/Kg	100				69	118	
Fluoranthene	1800	150	1900	ug/Kg	97				59	125	
Pyrene	1800	140	1800	ug/Kg	93				52	128	
Butylbenzylphthalate	1800	0	1900	ug/Kg	106				64	126	
3,3-Dichlorobenzidine	1800	0	1900	ug/Kg	106				10	164	
Benzo(a)anthracene	1800	0	1800	ug/Kg	100				71	114	
Chrysene	1800	0	1700	ug/Kg	94				57	121	
bis(2-Ethylhexyl)phthalate	1800	0	1800	ug/Kg	100				66	127	
Di-n-octyl phthalate	1800	0	1900	ug/Kg	106				71	126	
Benzo(b)fluoranthene	1800	130	1900	ug/Kg	99				67	121	
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94				74	114	
Benzo(a)pyrene	1800	0	1600	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1800	0	1700	ug/Kg	94				61	125	
Dibenz(a,h)anthracene	1800	0	1700	ug/Kg	94				67	130	
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94				53	140	
1,2,4,5-Tetrachlorobenzene	1800	0	1600	ug/Kg	89				69	124	
1,4-Dioxane	1800	0	1300	ug/Kg	72				46	112	
2,3,4,6-Tetrachlorophenol	1800	0	1700	ug/Kg	94				56	133	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: O3645-10MSD		**Client Sample ID: SB-04-(1-5)MSD**						**DataFile: BM041175.D**			
Benzaldehyde	1800	0	1700	ug/Kg	94		0		26	163	20
Phenol	1800	0	1800	ug/Kg	100		0		67	126	20
bis(2-Chloroethyl)ether	1800	0	1700	ug/Kg	94		0		74	116	20
2-Chlorophenol	1800	0	1700	ug/Kg	94		0		61	138	20
2-Methylphenol	1800	0	1700	ug/Kg	94		5		66	122	20
2,2-oxybis(1-Chloropropane)	1800	0	1700	ug/Kg	94		0		52	115	20
Acetophenone	1800	0	1600	ug/Kg	89		0		75	111	20
3+4-Methylphenols	1800	0	1700	ug/Kg	94		0		53	132	20
N-Nitroso-di-n-propylamine	1800	0	1700	ug/Kg	94		0		59	119	20
Hexachloroethane	1800	0	1700	ug/Kg	94		0		65	117	20
Nitrobenzene	1800	0	1600	ug/Kg	89		0		70	119	20
Isophorone	1800	0	1700	ug/Kg	94		5		76	122	20
2-Nitrophenol	1800	0	1800	ug/Kg	100		6		54	145	20
2,4-Dimethylphenol	1800	0	1700	ug/Kg	94		0		83	144	20
bis(2-Chloroethoxy)methane	1800	0	1600	ug/Kg	89		0		68	112	20
2,4-Dichlorophenol	1800	0	1800	ug/Kg	100		6		72	118	20
Naphthalene	1800	0	1600	ug/Kg	89		0		72	110	20
4-Chloroaniline	1800	0	1400	ug/Kg	78		0		10	100	20
Hexachlorobutadiene	1800	0	1600	ug/Kg	89		0		66	114	20
Caprolactam	1800	0	1800	ug/Kg	100		0		51	134	20
4-Chloro-3-methylphenol	1800	0	1800	ug/Kg	100		6		57	132	20
2-Methylnaphthalene	1800	0	1600	ug/Kg	89		0		59	123	20
Hexachlorocyclopentadiene	3600	0	3400	ug/Kg	94		0		10	175	20
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100		6		72	117	20
2,4,5-Trichlorophenol	1800	0	1600	ug/Kg	89		0		72	117	20
1,1-Biphenyl	1800	0	1600	ug/Kg	89		0		75	113	20
2-Chloronaphthalene	1800	0	1700	ug/Kg	94		0		67	118	20
2-Nitroaniline	1800	0	1800	ug/Kg	100		6		69	127	20
Dimethylphthalate	1800	150	1800	ug/Kg	92		0		70	113	20
Acenaphthylene	1800	0	1700	ug/Kg	94		5		79	118	20
2,6-Dinitrotoluene	1800	0	1700	ug/Kg	94		0		70	125	20
3-Nitroaniline	1800	0	1500	ug/Kg	83		0		20	111	20
Acenaphthene	1800	0	1700	ug/Kg	94		5		70	121	20
2,4-Dinitrophenol	3600	0	2900	ug/Kg	81		2		16	160	20
4-Nitrophenol	3600	0	4100	ug/Kg	114		0		45	133	20
Dibenzofuran	1800	0	1600	ug/Kg	89		0		72	110	20
2,4-Dinitrotoluene	1800	0	1600	ug/Kg	89		0		55	128	20
Diethylphthalate	1800	0	1700	ug/Kg	94		0		70	112	20
4-Chlorophenyl-phenylether	1800	0	1700	ug/Kg	94		5		71	108	20
Fluorene	1800	0	1700	ug/Kg	94		0		68	116	20
4-Nitroaniline	1800	0	1600	ug/Kg	89		7		55	120	20
4,6-Dinitro-2-methylphenol	1800	0	1500	ug/Kg	83		0		32	145	20
N-Nitrosodiphenylamine	1800	0	1600	ug/Kg	89		0		73	118	20
4-Bromophenyl-phenylether	1800	0	1700	ug/Kg	94		5		65	121	20
Hexachlorobenzene	1800	0	1800	ug/Kg	100		6		67	118	20
Atrazine	1800	0	2200	ug/Kg	122		4		79	127	20
Pentachlorophenol	3600	0	3400	ug/Kg	94		2		47	128	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Phenanthrene	1800	120	1800	ug/Kg	93		6		72	113	20
Anthracene	1800	0	1700	ug/Kg	94		0		62	124	20
Carbazole	1800	0	1800	ug/Kg	100		6		59	119	20
Di-n-butylphthalate	1800	0	1900	ug/Kg	106		6		69	118	20
Fluoranthene	1800	150	1900	ug/Kg	97		0		59	125	20
Pyrene	1800	140	1800	ug/Kg	93		0		52	128	20
Butylbenzylphthalate	1800	0	1900	ug/Kg	106		0		64	126	20
3,3-Dichlorobenzidine	1800	0	2000	ug/Kg	111		5		10	164	20
Benzo(a)anthracene	1800	0	1800	ug/Kg	100		0		71	114	20
Chrysene	1800	0	1700	ug/Kg	94		0		57	121	20
bis(2-Ethylhexyl)phthalate	1800	0	1800	ug/Kg	100		0		66	127	20
Di-n-octyl phthalate	1800	0	2000	ug/Kg	111		5		71	126	20
Benzo(b)fluoranthene	1800	130	1900	ug/Kg	98		1		67	121	20
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94		0		74	114	20
Benzo(a)pyrene	1800	0	1700	ug/Kg	94		5		70	142	20
Indeno(1,2,3-cd)pyrene	1800	0	1700	ug/Kg	94		0		61	125	20
Dibenz(a,h)anthracene	1800	0	1700	ug/Kg	94		0		67	130	20
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94		0		53	140	20
1,2,4,5-Tetrachlorobenzene	1800	0	1700	ug/Kg	94		5		69	124	20
1,4-Dioxane	1800	0	1300	ug/Kg	72		0		46	112	20
2,3,4,6-Tetrachlorophenol	1800	0	1800	ug/Kg	100		6		56	133	20

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

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BF134357.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154258BS	Benzaldehyde	1700	190	ug/Kg	11				10	109	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1200	ug/Kg	71				51	100	
	Acetophenone	1700	1500	ug/Kg	88				55	104	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1600	ug/Kg	94				59	102	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1400	ug/Kg	82				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				67	119	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				53	105	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	350	ug/Kg	21				16	100	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				53	98	
	Caprolactam	1700	1400	ug/Kg	82				42	122	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	2300	ug/Kg	70				45	134	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1300	ug/Kg	76				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1300	ug/Kg	76				53	105	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1300	ug/Kg	76				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	800	ug/Kg	47				28	100	
	Acenaphthene	1700	1400	ug/Kg	82				57	104	
	2,4-Dinitrophenol	3300	2700	ug/Kg	82				37	128	
	4-Nitrophenol	3300	2200	ug/Kg	67				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1400	ug/Kg	82				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1100	ug/Kg	65				47	102	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				48	132	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				56	107	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				55	99	
	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	970	ug/Kg	57				47	125	

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

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BF134357.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154258BS	Pentachlorophenol	3300	2300	ug/Kg	70				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1200	ug/Kg	71				59	103	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				30	89	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				51	114	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				52	114	
	Benzo(b)fluoranthene	1700	1800	ug/Kg	106				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				57	116	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1300	ug/Kg	76				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016413.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BS	Benzaldehyde	50	59.7	ug/L	119				21	131	
	Phenol	50	56.9	ug/L	114				66	118	
	bis(2-Chloroethyl)ether	50	50.5	ug/L	101				62	103	
	2-Chlorophenol	50	54.9	ug/L	110				70	117	
	2-Methylphenol	50	52.0	ug/L	104				69	109	
	2,2-oxybis(1-Chloropropane)	50	52.9	ug/L	106		*		52	103	
	Acetophenone	50	48.6	ug/L	97				60	104	
	3+4-Methylphenols	50	52.1	ug/L	104				67	106	
	N-Nitroso-di-n-propylamine	50	49.9	ug/L	100				57	107	
	Hexachloroethane	50	53.2	ug/L	106		*		60	105	
	Nitrobenzene	50	49.5	ug/L	99				58	106	
	Isophorone	50	47.8	ug/L	96				61	102	
	2-Nitrophenol	50	45.3	ug/L	91				70	115	
	2,4-Dimethylphenol	50	52.7	ug/L	105				67	130	
	bis(2-Chloroethoxy)methane	50	48.8	ug/L	98				58	109	
	2,4-Dichlorophenol	50	51.7	ug/L	103				66	115	
	Naphthalene	50	47.5	ug/L	95				64	107	
	4-Chloroaniline	50	31.3	ug/L	63				10	85	
	Hexachlorobutadiene	50	44.3	ug/L	89				56	102	
	Caprolactam	50	50.3	ug/L	101				47	129	
	4-Chloro-3-methylphenol	50	51.6	ug/L	103				65	114	
	2-Methylnaphthalene	50	45.5	ug/L	91				64	107	
	Hexachlorocyclopentadiene	100	120	ug/L	120				49	132	
	2,4,6-Trichlorophenol	50	50.3	ug/L	101				61	110	
	2,4,5-Trichlorophenol	50	46.4	ug/L	93				70	106	
	1,1-Biphenyl	50	47.6	ug/L	95				72	98	
	2-Chloronaphthalene	50	49.1	ug/L	98				59	106	
	2-Nitroaniline	50	52.6	ug/L	105				58	107	
	Dimethylphthalate	50	47.3	ug/L	95				64	103	
	Acenaphthylene	50	48.1	ug/L	96				65	108	
	2,6-Dinitrotoluene	50	49.4	ug/L	99				64	110	
	3-Nitroaniline	50	40.2	ug/L	80				28	100	
	Acenaphthene	50	48.1	ug/L	96				59	113	
	2,4-Dinitrophenol	100	93.2	ug/L	93				48	129	
	4-Nitrophenol	100	120	ug/L	120		*		54	119	
	Dibenzofuran	50	46.8	ug/L	94				65	106	
	2,4-Dinitrotoluene	50	52.3	ug/L	105				60	115	
	Diethylphthalate	50	48.0	ug/L	96				63	105	
	4-Chlorophenyl-phenylether	50	45.5	ug/L	91				61	104	
	Fluorene	50	47.6	ug/L	95				64	107	
	4-Nitroaniline	50	49.0	ug/L	98				57	103	
	4,6-Dinitro-2-methylphenol	50	48.5	ug/L	97				62	132	
	N-Nitrosodiphenylamine	50	49.8	ug/L	100				61	109	
	4-Bromophenyl-phenylether	50	46.5	ug/L	93				73	103	
	Hexachlorobenzene	50	47.2	ug/L	94				73	106	
	Atrazine	50	60.9	ug/L	122				52	134	

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

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016413.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BS	Pentachlorophenol	100	90.7	ug/L	91				65	112	
	Phenanthrene	50	49.8	ug/L	100				62	109	
	Anthracene	50	50.0	ug/L	100				65	110	
	Carbazole	50	51.7	ug/L	103				62	106	
	Di-n-butylphthalate	50	51.7	ug/L	103				64	106	
	Fluoranthene	50	48.9	ug/L	98				64	110	
	Pyrene	50	50.6	ug/L	101				71	103	
	Butylbenzylphthalate	50	54.1	ug/L	108		*		61	105	
	3,3-Dichlorobenzidine	50	42.2	ug/L	84				30	96	
	Benzo(a)anthracene	50	49.4	ug/L	99				62	107	
	Chrysene	50	48.3	ug/L	97				61	108	
	bis(2-Ethylhexyl)phthalate	50	53.5	ug/L	107				59	110	
	Di-n-octyl phthalate	50	54.7	ug/L	109				55	116	
	Benzo(b)fluoranthene	50	54.0	ug/L	108				64	111	
	Benzo(k)fluoranthene	50	53.9	ug/L	108				64	113	
	Benzo(a)pyrene	50	48.7	ug/L	97				72	131	
	Indeno(1,2,3-cd)pyrene	50	49.3	ug/L	99				72	105	
	Dibenz(a,h)anthracene	50	49.8	ug/L	100				63	117	
	Benzo(g,h,i)perylene	50	48.3	ug/L	97				61	120	
	1,2,4,5-Tetrachlorobenzene	50	45.3	ug/L	91				72	101	
	1,4-Dioxane	50	40.6	ug/L	81				38	125	
	2,3,4,6-Tetrachlorophenol	50	48.7	ug/L	97				63	116	

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

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016414.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BSD	Benzaldehyde	50	58.9	ug/L	118	1			21	131	20
	Phenol	50	56.1	ug/L	112	1			66	118	20
	bis(2-Chloroethyl)ether	50	50.3	ug/L	101	0			62	103	20
	2-Chlorophenol	50	54.8	ug/L	110	0			70	117	20
	2-Methylphenol	50	51.6	ug/L	103	1			69	109	20
	2,2-oxybis(1-Chloropropane)	50	52.1	ug/L	104	2	*		52	103	20
	Acetophenone	50	48.3	ug/L	97	1			60	104	20
	3+4-Methylphenols	50	51.6	ug/L	103	1			67	106	20
	N-Nitroso-di-n-propylamine	50	49.0	ug/L	98	2			57	107	20
	Hexachloroethane	50	52.2	ug/L	104	2			60	105	20
	Nitrobenzene	50	48.9	ug/L	98	1			58	106	20
	Isophorone	50	47.4	ug/L	95	1			61	102	20
	2-Nitrophenol	50	46.6	ug/L	93	3			70	115	20
	2,4-Dimethylphenol	50	52.5	ug/L	105	0			67	130	20
	bis(2-Chloroethoxy)methane	50	48.3	ug/L	97	1			58	109	20
	2,4-Dichlorophenol	50	51.5	ug/L	103	0			66	115	20
	Naphthalene	50	47.4	ug/L	95	0			64	107	20
	4-Chloroaniline	50	31.1	ug/L	62	1			10	85	20
	Hexachlorobutadiene	50	45.3	ug/L	91	2			56	102	20
	Caprolactam	50	51.0	ug/L	102	1			47	129	20
	4-Chloro-3-methylphenol	50	51.6	ug/L	103	0			65	114	20
	2-Methylnaphthalene	50	45.3	ug/L	91	0			64	107	20
	Hexachlorocyclopentadiene	100	120	ug/L	120	0			49	132	20
	2,4,6-Trichlorophenol	50	50.7	ug/L	101	1			61	110	20
	2,4,5-Trichlorophenol	50	46.5	ug/L	93	0			70	106	20
	1,1-Biphenyl	50	47.6	ug/L	95	0			72	98	20
	2-Chloronaphthalene	50	49.0	ug/L	98	0			59	106	20
	2-Nitroaniline	50	53.0	ug/L	106	1			58	107	20
	Dimethylphthalate	50	47.1	ug/L	94	0			64	103	20
	Acenaphthylene	50	48.1	ug/L	96	0			65	108	20
	2,6-Dinitrotoluene	50	49.3	ug/L	99	0			64	110	20
	3-Nitroaniline	50	40.6	ug/L	81	1			28	100	20
	Acenaphthene	50	48.0	ug/L	96	0			59	113	20
	2,4-Dinitrophenol	100	97.1	ug/L	97	4			48	129	20
	4-Nitrophenol	100	120	ug/L	120	0	*		54	119	20
	Dibenzofuran	50	46.6	ug/L	93	0			65	106	20
	2,4-Dinitrotoluene	50	52.5	ug/L	105	0			60	115	20
	Diethylphthalate	50	48.1	ug/L	96	0			63	105	20
	4-Chlorophenyl-phenylether	50	45.6	ug/L	91	0			61	104	20
	Fluorene	50	47.7	ug/L	95	0			64	107	20
	4-Nitroaniline	50	49.4	ug/L	99	1			57	103	20
	4,6-Dinitro-2-methylphenol	50	49.4	ug/L	99	2			62	132	20
	N-Nitrosodiphenylamine	50	49.4	ug/L	99	1			61	109	20
	4-Bromophenyl-phenylether	50	46.3	ug/L	93	0			73	103	20
	Hexachlorobenzene	50	46.8	ug/L	94	1			73	106	20
	Atrazine	50	60.5	ug/L	121	1			52	134	20

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

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016414.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BSD	Pentachlorophenol	100	90.4	ug/L	90	0			65	112	20
	Phenanthrene	50	49.1	ug/L	98	1			62	109	20
	Anthracene	50	49.4	ug/L	99	1			65	110	20
	Carbazole	50	51.1	ug/L	102	1			62	106	20
	Di-n-butylphthalate	50	51.3	ug/L	103	1			64	106	20
	Fluoranthene	50	48.4	ug/L	97	1			64	110	20
	Pyrene	50	50.3	ug/L	101	1			71	103	20
	Butylbenzylphthalate	50	54.1	ug/L	108	0	*		61	105	20
	3,3-Dichlorobenzidine	50	41.6	ug/L	83	1			30	96	20
	Benzo(a)anthracene	50	49.3	ug/L	99	0			62	107	20
	Chrysene	50	48.2	ug/L	96	0			61	108	20
	bis(2-Ethylhexyl)phthalate	50	53.6	ug/L	107	0			59	110	20
	Di-n-octyl phthalate	50	54.8	ug/L	110	0			55	116	20
	Benzo(b)fluoranthene	50	53.5	ug/L	107	1			64	111	20
	Benzo(k)fluoranthene	50	53.3	ug/L	107	1			64	113	20
	Benzo(a)pyrene	50	48.5	ug/L	97	0			72	131	20
	Indeno(1,2,3-cd)pyrene	50	49.5	ug/L	99	0			72	105	20
	Dibenz(a,h)anthracene	50	49.6	ug/L	99	0			63	117	20
	Benzo(g,h,i)perylene	50	48.3	ug/L	97	0			61	120	20
	1,2,4,5-Tetrachlorobenzene	50	45.6	ug/L	91	1			72	101	20
	1,4-Dioxane	50	40.5	ug/L	81	0			38	125	20
	2,3,4,6-Tetrachlorophenol	50	49.0	ug/L	98	1			63	116	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB154218BL

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016412.D Lab Sample ID: PB154218BL

Instrument ID: BNA_P Date Extracted: 07/17/2023

Matrix: (soil/water) Water Date Analyzed: 07/28/2023

Level: (low/med) LOW Time Analyzed: 08:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB154218BS	PB154218BS	BP016413.D	07/28/2023
PB154218BSD	PB154218BSD	BP016414.D	07/28/2023
RINSATE-BLANK	O3645-08	BF134528.D	07/28/2023

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB154258BL

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134356.D Lab Sample ID: PB154258BL

Instrument ID: BNA_F Date Extracted: 07/18/2023

Matrix: (soil/water) SOIL Date Analyzed: 07/19/2023

Level: (low/med) LOW Time Analyzed: 13:34

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB154258BS	PB154258BS	BF134357.D	07/19/2023
SB-02-(3-5)	O3645-01	BF134527.D	07/28/2023
SB-07-(1-3)	O3645-03	BF134531.D	07/29/2023
SB-04-(1-5)	O3645-02	BF134557.D	08/01/2023
SB-08-(0.5-2.0)	O3645-04	BF134556.D	08/01/2023
SB-10-(0.5-2.0)	O3645-06	BF134566.D	08/02/2023
DUP	O3645-07	BG058571.D	08/02/2023
SB-09-(2.0-4.0)	O3645-05	BG058572.D	08/02/2023
SB-04-(1-5)MS	O3645-09MS	BM041174.D	07/28/2023
SB-04-(1-5)MSD	O3645-10MSD	BM041175.D	07/28/2023

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF133952.D DFTPP Injection Date: 06/26/2023

Instrument ID: BNA_F DFTPP Injection Time: 14:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.4
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
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	7
275	10.0 - 60.0% of mass 198	29.7
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	15.9
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.3 (19) 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	BF133953.D	06/26/2023	15:19
SSTDICC005	SSTDICC005	BF133954.D	06/26/2023	15:53
SSTDICC010	SSTDICC010	BF133955.D	06/26/2023	16:27
SSTDICC020	SSTDICC020	BF133956.D	06/26/2023	17:02
SSTDICCC040	SSTDICCC040	BF133957.D	06/26/2023	17:37
SSTDICC050	SSTDICC050	BF133958.D	06/26/2023	18:12
SSTDICC060	SSTDICC060	BF133959.D	06/26/2023	18:47
SSTDICC080	SSTDICC080	BF133960.D	06/26/2023	19:21

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134354.D DFTPP Injection Date: 07/19/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	46.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	32.8
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	21.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 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
SSTDCCC040	SSTDCCC040	BF134355.D	07/19/2023	13:01
PB154258BL	PB154258BL	BF134356.D	07/19/2023	13:34
PB154258BS	PB154258BS	BF134357.D	07/19/2023	14:07

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134425.D DFTPP Injection Date: 07/24/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.3
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	40.1
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	51.0
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	6.4
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	17.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 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	BF134427.D	07/24/2023	13:46
SSTDICC005	SSTDICC005	BF134428.D	07/24/2023	14:19
SSTDICC010	SSTDICC010	BF134429.D	07/24/2023	14:53
SSTDICC020	SSTDICC020	BF134430.D	07/24/2023	15:28
SSTDICCC040	SSTDICCC040	BF134431.D	07/24/2023	16:02
SSTDICC050	SSTDICC050	BF134432.D	07/24/2023	16:36
SSTDICC060	SSTDICC060	BF134433.D	07/24/2023	17:10
SSTDICC080	SSTDICC080	BF134434.D	07/24/2023	17:44

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134517.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 15:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.4
68	Less than 2.0% of mass 69	0.3 (1.1) 1
69	Mass 69 relative abundance	38.6
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	49.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	31.6
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	20.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 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
SSTDCCC040	SSTDCCC040	BF134518.D	07/28/2023	16:29
SB-02-(3-5)	O3645-01	BF134527.D	07/28/2023	21:40
RINSATE-BLANK	O3645-08	BF134528.D	07/28/2023	22:17
SB-07-(1-3)	O3645-03	BF134531.D	07/29/2023	00:10

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134535.D DFTPP Injection Date: 08/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 07:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.8
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	33.0
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.8
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	27.2
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	17.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 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	BF134536.D	08/01/2023	07:51
SSTDICC005	SSTDICC005	BF134537.D	08/01/2023	08:22
SSTDICC010	SSTDICC010	BF134538.D	08/01/2023	08:54
SSTDICC020	SSTDICC020	BF134539.D	08/01/2023	09:24
SSTDICCC040	SSTDICCC040	BF134540.D	08/01/2023	10:12
SSTDICC050	SSTDICC050	BF134541.D	08/01/2023	10:44
SSTDICC060	SSTDICC060	BF134542.D	08/01/2023	11:15
SSTDICC080	SSTDICC080	BF134543.D	08/01/2023	11:47

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134546.D DFTPP Injection Date: 08/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 13:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.3
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.4
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	16.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.9 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF134547.D	08/01/2023	14:27
SB-08-(0.5-2.0)	O3645-04	BF134556.D	08/01/2023	19:24
SB-04-(1-5)	O3645-02	BF134557.D	08/01/2023	19:56
SB-10-(0.5-2.0)DL	O3645-06DL	BF134565.D	08/02/2023	00:09
SB-10-(0.5-2.0)	O3645-06	BF134566.D	08/02/2023	00:41

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BG058509.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_G DFTPP Injection Time: 08:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.2 (0.5) 1
69	Mass 69 relative abundance	31.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	39.1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	16.3 (20.4) 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	BG058510.D	07/28/2023	09:21
SSTDICC005	SSTDICC005	BG058511.D	07/28/2023	10:02
SSTDICC010	SSTDICC010	BG058512.D	07/28/2023	10:43
SSTDICC020	SSTDICC020	BG058513.D	07/28/2023	11:24
SSTDICCC040	SSTDICCC040	BG058514.D	07/28/2023	12:05
SSTDICC050	SSTDICC050	BG058515.D	07/28/2023	12:46
SSTDICC060	SSTDICC060	BG058516.D	07/28/2023	13:27
SSTDICC080	SSTDICC080	BG058517.D	07/28/2023	14:09

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BG058568.D DFTPP Injection Date: 08/02/2023

Instrument ID: BNA_G DFTPP Injection Time: 07:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	38.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.8
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	17.3 (19.6) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG058569.D	08/02/2023	08:34
DUP	O3645-07	BG058571.D	08/02/2023	09:59
SB-09-(2.0-4.0)	O3645-05	BG058572.D	08/02/2023	10:39

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BM041157.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_M DFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.2
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	44.5
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.9
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.1 (19.9) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM041158.D	07/28/2023	10:14
SSTDICC005	SSTDICC005	BM041159.D	07/28/2023	10:51
SSTDICC010	SSTDICC010	BM041160.D	07/28/2023	11:29
SSTDICC020	SSTDICC020	BM041161.D	07/28/2023	12:06
SSTDICCC040	SSTDICCC040	BM041162.D	07/28/2023	12:44
SSTDICC050	SSTDICC050	BM041163.D	07/28/2023	13:22
SSTDICC060	SSTDICC060	BM041164.D	07/28/2023	14:00
SSTDICC080	SSTDICC080	BM041165.D	07/28/2023	14:38

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BM041168.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_M DFTPP Injection Time: 16:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.8
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	46.4
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	49
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	25.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.3
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	16 (19.1) 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
SSTDCCC040	SSTDCCC040	BM041169.D	07/28/2023	17:11
SB-04-(1-5)MS	O3645-09MS	BM041174.D	07/28/2023	20:22
SB-04-(1-5)MSD	O3645-10MSD	BM041175.D	07/28/2023	21:00

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016392.D DFTPP Injection Date: 07/27/2023

Instrument ID: BNA_P DFTPP Injection Time: 09:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.8
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	32.8
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	42.7
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	6.8
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	20.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20 (20) 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	BP016393.D	07/27/2023	11:03
SSTDICC005	SSTDICC005	BP016394.D	07/27/2023	11:37
SSTDICC010	SSTDICC010	BP016395.D	07/27/2023	12:12
SSTDICC020	SSTDICC020	BP016396.D	07/27/2023	12:46
SSTDICCC040	SSTDICCC040	BP016397.D	07/27/2023	13:20
SSTDICC050	SSTDICC050	BP016398.D	07/27/2023	13:55
SSTDICC060	SSTDICC060	BP016399.D	07/27/2023	14:29
SSTDICC080	SSTDICC080	BP016400.D	07/27/2023	15:03

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016410.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_P DFTPP Injection Time: 07:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	38.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47.2
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	17.7 (19.9) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP016411.D	07/28/2023	08:03
PB154218BL	PB154218BL	BP016412.D	07/28/2023	08:37
PB154218BS	PB154218BS	BP016413.D	07/28/2023	09:12
PB154218BSD	PB154218BSD	BP016414.D	07/28/2023	09:48

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/19/2023

Lab File ID: BF134355.D Time Analyzed: 13:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	72147	6.84	261643	8.12	134896	9.88
	UPPER LIMIT	144294	7.34	523286	8.622	269792	10.381
	LOWER LIMIT	36073.5	6.34	130822	7.622	67448	9.381
	EPA SAMPLE NO.						
01	PB154258BL	76908	6.84	293261	8.12	157065	9.88
02	PB154258BS	73456	6.84	287399	8.12	147548	9.88

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.: 03645 SAS No.: 03645 SDG NO.: 03645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/19/2023

Lab File ID: BF134355.D Time Analyzed: 13:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	265144	11.375	186886	14.039	165841	15.545
	UPPER LIMIT	530288	11.875	373772	14.539	331682	16.045
	LOWER LIMIT	132572	10.875	93443	13.539	82920.5	15.045
	EPA SAMPLE NO.						
01	PB154258BL	314062	11.37	230557	14.03	204908	15.54
02	PB154258BS	283533	11.38	207181	14.04	162647	15.55

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BF134518.D Time Analyzed: 16:29

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	87669	6.828	337479	8.11	185549	9.87
	UPPER LIMIT	175338	7.328	674958	8.61	371098	10.369
	LOWER LIMIT	43834.5	6.328	168740	7.61	92774.5	9.369
	EPA SAMPLE NO.						
01	SB-02-(3-5)	80491	6.83	305901	8.11	133240	9.86
02	SB-07-(1-3)	99614	6.83	368068	8.11	164170	9.86
03	RINSATE-BLANK	116133	6.83	261936	8.11	136997	9.86

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.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BF134518.D Time Analyzed: 16:29

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	383332	11.363	254954	14.021	199170	15.515
	UPPER LIMIT	766664	11.863	509908	14.521	398340	16.015
	LOWER LIMIT	191666	10.863	127477	13.521	99585	15.015
	EPA SAMPLE NO.						
01	SB-02-(3-5)	192351	11.36	143002	14.02	101757	15.52
02	SB-07-(1-3)	266517	11.36	176024	14.02	152338	15.52
03	RINSATE-BLANK	224038	11.36	149740	14.02	125969	15.52

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/01/2023

Lab File ID: BF134547.D Time Analyzed: 14:27

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	220485	6.792	863869	8.08	433432	9.83
	UPPER LIMIT	440970	7.292	1727740	8.575	866864	10.328
	LOWER LIMIT	110243	6.292	431935	7.575	216716	9.328
	EPA SAMPLE NO.						
01	SB-04-(1-5)	205461	6.79	825053	8.07	411202	9.82
02	SB-08-(0.5-2.0)	186884	6.79	736666	8.07	365569	9.82
03	SB-10-(0.5-2.0)	186419	6.79	688439	8.07	288810	9.83
04	SB-10-(0.5-2.0)DL	176047	6.79	669108	8.07	288095	9.82

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.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/01/2023

Lab File ID: BF134547.D Time Analyzed: 14:27

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	785259	11.316	498206	13.963	453778	15.415
	UPPER LIMIT	1570520	11.816	996412	14.463	907556	15.915
	LOWER LIMIT	392630	10.816	249103	13.463	226889	14.915
	EPA SAMPLE NO.						
01	SB-04-(1-5)	731340	11.31	404523	13.95	444719	15.41
02	SB-08-(0.5-2.0)	647165	11.31	366423	13.95	422938	15.41
03	SB-10-(0.5-2.0)	477851	11.32	297316	13.97	259002	15.43
04	SB-10-(0.5-2.0)DL	446577	11.31	335956	13.96	267080	15.42

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/02/2023

Lab File ID: BG058569.D Time Analyzed: 08:34

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	39596	7.814	168505	10.62	117751	14.47
	UPPER LIMIT	79192	8.314	337010	11.116	235502	14.965
	LOWER LIMIT	19798	7.314	84252.5	10.116	58875.5	13.965
	EPA SAMPLE NO.						
01	DUP	54082	7.81	234812	10.61	164688	14.46
02	SB-09-(2.0-4.0)	58172	7.81	254632	10.62	173135	14.46

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.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/02/2023

Lab File ID: BG058569.D Time Analyzed: 08:34

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	312836	17.209	298102	21.457	377370	24.529
	UPPER LIMIT	625672	17.709	596204	21.957	754740	25.029
	LOWER LIMIT	156418	16.709	149051	20.957	188685	24.029
	EPA SAMPLE NO.						
01	DUP	370089	17.21	322252	21.45	402408	24.52
02	SB-09-(2.0-4.0)	388943	17.21	335998	21.45	415042	24.52

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BM041169.D Time Analyzed: 17:11

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	155350	7.804	581542	10.62	321278	14.47
	UPPER LIMIT	310700	8.304	1163080	11.116	642556	14.969
	LOWER LIMIT	77675	7.304	290771	10.116	160639	13.969
	EPA SAMPLE NO.						
01	SB-04-(1-5)MS	183644	7.80	715690	10.61	398072	14.47
02	SB-04-(1-5)MSD	193205	7.80	741556	10.61	413329	14.47

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.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BM041169.D Time Analyzed: 17:11

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	645331	17.227	604742	21.433	674680	23.803
	UPPER LIMIT	1290660	17.727	1209480	21.933	1349360	24.303
	LOWER LIMIT	322666	16.727	302371	20.933	337340	23.303
	EPA SAMPLE NO.						
01	SB-04-(1-5)MS	828030	17.23	795964	21.43	909051	23.80
02	SB-04-(1-5)MSD	855318	17.23	829098	21.43	953040	23.80

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BP016411.D Time Analyzed: 08:03

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	506538	8.093	2090640	10.92	1248290	14.73
	UPPER LIMIT	1013080	8.593	4181280	11.422	2496580	15.234
	LOWER LIMIT	253269	7.593	1045320	10.422	624145	14.234
	EPA SAMPLE NO.						
01	PB154218BL	431547	8.09	1746470	10.92	1045570	14.73
02	PB154218BS	349249	8.09	1482470	10.92	905687	14.73
03	PB154218BSD	341099	8.09	1443210	10.92	877872	14.73

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.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BP016411.D Time Analyzed: 08:03

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	2658100	17.498	2292480	21.592	2240140	24.186
	UPPER LIMIT	5316200	17.998	4584960	22.092	4480280	24.686
	LOWER LIMIT	1329050	16.998	1146240	21.092	1120070	23.686
	EPA SAMPLE NO.						
01	PB154218BL	2341400	17.49	2050870	21.59	2195260	24.18
02	PB154218BS	1936050	17.50	1800690	21.59	1921990	24.19
03	PB154218BSD	1902270	17.50	1781260	21.59	1923430	24.19

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.

CHEMTECH

A
B
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QC SAMPLE DATA

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	143		10 - 139	96%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 134	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.0		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.5		52 - 132	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		45 - 141	74%	SPK: 150
1718-51-0	Terphenyl-d14	102		45 - 142	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	432000	8.087			
1146-65-2	Naphthalene-d8	1750000	10.922			
15067-26-2	Acenaphthene-d10	1050000	14.734			
1517-22-2	Phenanthrene-d10	2340000	17.492			
1719-03-5	Chrysene-d12	2050000	21.586			
1520-96-3	Perylene-d12	2200000	24.18			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.10	A		5.15	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BL	SDG No.:	O3645
Lab Sample ID:	PB154258BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330	U	150	330	ug/Kg
108-95-2	Phenol	170	U	74.4	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	89.8	170	ug/Kg
95-57-8	2-Chlorophenol	170	U	72.0	170	ug/Kg
95-48-7	2-Methylphenol	170	U	110	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	110	170	ug/Kg
98-86-2	Acetophenone	170	U	86.7	170	ug/Kg
65794-96-9	3+4-Methylphenols	330	U	110	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	80.0	U	59.0	80.0	ug/Kg
67-72-1	Hexachloroethane	170	U	73.6	170	ug/Kg
98-95-3	Nitrobenzene	170	U	75.2	170	ug/Kg
78-59-1	Isophorone	170	U	68.1	170	ug/Kg
88-75-5	2-Nitrophenol	170	U	95.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	99.6	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	110	170	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	78.1	170	ug/Kg
91-20-3	Naphthalene	170	U	81.4	170	ug/Kg
106-47-8	4-Chloroaniline	170	U	110	170	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	84.0	170	ug/Kg
105-60-2	Caprolactam	330	U	120	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	82.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	94.9	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	U	210	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	77.1	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	87.9	170	ug/Kg
92-52-4	1,1-Biphenyl	170	U	91.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	84.6	170	ug/Kg
88-74-4	2-Nitroaniline	170	U	99.3	170	ug/Kg
131-11-3	Dimethylphthalate	170	U	88.9	170	ug/Kg
208-96-8	Acenaphthylene	170	U	88.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	90.0	170	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BL	SDG No.:	O3645
Lab Sample ID:	PB154258BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	170	U	93.4	170	ug/Kg
83-32-9	Acenaphthene	170	U	80.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	330	U	180	330	ug/Kg
100-02-7	4-Nitrophenol	330	U	110	330	ug/Kg
132-64-9	Dibenzofuran	170	U	76.9	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	99.9	170	ug/Kg
84-66-2	Diethylphthalate	170	U	85.9	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	90.4	170	ug/Kg
86-73-7	Fluorene	170	U	84.8	170	ug/Kg
100-01-6	4-Nitroaniline	170	U	100	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	330	U	87.8	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	93.3	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	97.4	170	ug/Kg
118-74-1	Hexachlorobenzene	170	U	98.8	170	ug/Kg
1912-24-9	Atrazine	170	U	95.4	170	ug/Kg
87-86-5	Pentachlorophenol	330	U	110	330	ug/Kg
85-01-8	Phenanthrene	170	U	92.7	170	ug/Kg
120-12-7	Anthracene	170	U	100	170	ug/Kg
86-74-8	Carbazole	170	U	84.9	170	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	100	170	ug/Kg
206-44-0	Fluoranthene	170	U	94.4	170	ug/Kg
129-00-0	Pyrene	170	U	83.7	170	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	100	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	330	U	160	330	ug/Kg
56-55-3	Benzo(a)anthracene	170	U	83.9	170	ug/Kg
218-01-9	Chrysene	170	U	86.8	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	120	170	ug/Kg
117-84-0	Di-n-octyl phthalate	330	U	120	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	U	80.3	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	170	U	88.1	170	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	94.3	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	110	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	96.5	170	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BL	SDG No.:	O3645
Lab Sample ID:	PB154258BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	170	U	92.5	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	89.4	170	ug/Kg
123-91-1	1,4-Dioxane	170	U	120	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	82.9	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	163		18 - 112	109%	SPK: 150
13127-88-3	Phenol-d6	128		21 - 104	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.1		27 - 109	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.6		30 - 103	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		10 - 121	100%	SPK: 150
1718-51-0	Terphenyl-d14	84.1		21 - 107	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76900	6.84			
1146-65-2	Naphthalene-d8	293000	8.116			
15067-26-2	Acenaphthene-d10	157000	9.875			
1517-22-2	Phenanthrene-d10	314000	11.369			
1719-03-5	Chrysene-d12	231000	14.033			
1520-96-3	Perylene-d12	205000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000763-93-9	3-Hexen-2-one	2300	J		4.49	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3500	A		5.10	ug/Kg
000107-70-0	2-Pentanone, 4-methoxy-4-methyl-	78.7	J		5.86	ug/Kg
000791-28-6	Triphenylphosphine oxide	74.0	J		14.1	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	59.7		3.30	10.0	ug/L
108-95-2	Phenol	56.9		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	50.5		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	54.9		1.40	5.00	ug/L
95-48-7	2-Methylphenol	52.0		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	52.9		2.30	5.00	ug/L
98-86-2	Acetophenone	48.6		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	52.1		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.9		2.00	2.50	ug/L
67-72-1	Hexachloroethane	53.2		1.60	5.00	ug/L
98-95-3	Nitrobenzene	49.5		1.70	5.00	ug/L
78-59-1	Isophorone	47.8		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	45.3		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	52.7		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.8		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	51.7		1.70	5.00	ug/L
91-20-3	Naphthalene	47.5		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	31.3		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.3		1.90	5.00	ug/L
105-60-2	Caprolactam	50.3		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	51.6		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.5		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.3		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.4		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	49.1		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	52.6		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.3		1.90	5.00	ug/L
208-96-8	Acenaphthylene	48.1		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.4		2.10	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	40.2		2.40	5.00	ug/L
83-32-9	Acenaphthene	48.1		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	93.2	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	46.8		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.3		2.50	5.00	ug/L
84-66-2	Diethylphthalate	48.0		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.5		2.20	5.00	ug/L
86-73-7	Fluorene	47.6		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	49.0		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.5		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.8		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	46.5		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	47.2		1.90	5.00	ug/L
1912-24-9	Atrazine	60.9		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	90.7	E	2.60	10.0	ug/L
85-01-8	Phenanthrene	49.8		2.00	5.00	ug/L
120-12-7	Anthracene	50.0		2.30	5.00	ug/L
86-74-8	Carbazole	51.7		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.7		2.40	5.00	ug/L
206-44-0	Fluoranthene	48.9		2.10	5.00	ug/L
129-00-0	Pyrene	50.6		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.1		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	42.2		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.4		1.50	5.00	ug/L
218-01-9	Chrysene	48.3		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	53.5		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	54.7		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	54.0		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	53.9		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.7		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.3		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.8		2.00	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	48.3		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	45.3		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.6		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.7		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175		10 - 139	116%	SPK: 150
13127-88-3	Phenol-d6	166		10 - 134	111%	SPK: 150
4165-60-0	Nitrobenzene-d5	107		49 - 133	107%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		52 - 132	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		45 - 141	90%	SPK: 150
1718-51-0	Terphenyl-d14	113		45 - 142	113%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	349000	8.093			
1146-65-2	Naphthalene-d8	1480000	10.922			
15067-26-2	Acenaphthene-d10	906000	14.734			
1517-22-2	Phenanthrene-d10	1940000	17.498			
1719-03-5	Chrysene-d12	1800000	21.586			
1520-96-3	Perylene-d12	1920000	24.186			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	J	150	330	ug/Kg
108-95-2	Phenol	1400		74.3	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		89.7	170	ug/Kg
95-57-8	2-Chlorophenol	1500		71.9	170	ug/Kg
95-48-7	2-Methylphenol	1400		110	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1200		100	170	ug/Kg
98-86-2	Acetophenone	1500		86.6	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		110	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		58.9	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		73.5	170	ug/Kg
98-95-3	Nitrobenzene	1400		75.1	170	ug/Kg
78-59-1	Isophorone	1400		68.0	170	ug/Kg
88-75-5	2-Nitrophenol	1400		95.0	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		99.5	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		110	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		78.0	170	ug/Kg
91-20-3	Naphthalene	1400		81.3	170	ug/Kg
106-47-8	4-Chloroaniline	350		100	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		83.9	170	ug/Kg
105-60-2	Caprolactam	1400		120	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		82.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		94.8	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2300		210	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		77.0	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1300		87.8	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		91.2	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		84.5	170	ug/Kg
88-74-4	2-Nitroaniline	1300		99.2	170	ug/Kg
131-11-3	Dimethylphthalate	1400		88.8	170	ug/Kg
208-96-8	Acenaphthylene	1300		88.3	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		89.9	170	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	800		93.3	170	ug/Kg
83-32-9	Acenaphthene	1400		80.2	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2700	E	180	330	ug/Kg
100-02-7	4-Nitrophenol	2200		110	330	ug/Kg
132-64-9	Dibenzofuran	1400		76.8	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1400		99.8	170	ug/Kg
84-66-2	Diethylphthalate	1400		85.8	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		90.3	170	ug/Kg
86-73-7	Fluorene	1400		84.7	170	ug/Kg
100-01-6	4-Nitroaniline	1100		100	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		87.7	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		93.2	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		97.3	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		98.7	170	ug/Kg
1912-24-9	Atrazine	970		95.3	170	ug/Kg
87-86-5	Pentachlorophenol	2300		110	330	ug/Kg
85-01-8	Phenanthrene	1400		92.6	170	ug/Kg
120-12-7	Anthracene	1400		100	170	ug/Kg
86-74-8	Carbazole	1500		84.8	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		100	170	ug/Kg
206-44-0	Fluoranthene	1500		94.3	170	ug/Kg
129-00-0	Pyrene	1200		83.6	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		100	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		160	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		83.8	170	ug/Kg
218-01-9	Chrysene	1400		86.7	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		110	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		120	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		80.2	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		88.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		94.2	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		110	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		96.4	170	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1500		92.4	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		89.3	170	ug/Kg
123-91-1	1,4-Dioxane	1300		120	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		82.8	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	116		21 - 104	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.7		27 - 109	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.8		30 - 103	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	127		10 - 121	85%	SPK: 150
1718-51-0	Terphenyl-d14	80.1		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73500	6.84			
1146-65-2	Naphthalene-d8	287000	8.122			
15067-26-2	Acenaphthene-d10	148000	9.881			
1517-22-2	Phenanthrene-d10	284000	11.375			
1719-03-5	Chrysene-d12	207000	14.039			
1520-96-3	Perylene-d12	163000	15.545			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	58.9		3.30	10.0	ug/L
108-95-2	Phenol	56.1		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	50.3		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	54.8		1.40	5.00	ug/L
95-48-7	2-Methylphenol	51.6		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	52.1		2.30	5.00	ug/L
98-86-2	Acetophenone	48.3		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	51.6		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.0		2.00	2.50	ug/L
67-72-1	Hexachloroethane	52.2		1.60	5.00	ug/L
98-95-3	Nitrobenzene	48.9		1.70	5.00	ug/L
78-59-1	Isophorone	47.4		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	46.6		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	52.5		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.3		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	51.5		1.70	5.00	ug/L
91-20-3	Naphthalene	47.4		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	31.1		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.3		1.90	5.00	ug/L
105-60-2	Caprolactam	51.0		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	51.6		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.3		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.7		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.5		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	49.0		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	53.0		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.1		1.90	5.00	ug/L
208-96-8	Acenaphthylene	48.1		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.3		2.10	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	40.6		2.40	5.00	ug/L
83-32-9	Acenaphthene	48.0		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	97.1	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	46.6		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.5		2.50	5.00	ug/L
84-66-2	Diethylphthalate	48.1		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.6		2.20	5.00	ug/L
86-73-7	Fluorene	47.7		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	49.4		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.4		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.4		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	46.3		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	46.8		1.90	5.00	ug/L
1912-24-9	Atrazine	60.5		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	90.4	E	2.60	10.0	ug/L
85-01-8	Phenanthrene	49.1		2.00	5.00	ug/L
120-12-7	Anthracene	49.4		2.30	5.00	ug/L
86-74-8	Carbazole	51.1		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.3		2.40	5.00	ug/L
206-44-0	Fluoranthene	48.4		2.10	5.00	ug/L
129-00-0	Pyrene	50.3		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.1		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	41.6		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.3		1.50	5.00	ug/L
218-01-9	Chrysene	48.2		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	53.6		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	54.8		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	53.5		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	53.3		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.5		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.5		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.6		2.00	5.00	ug/L

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	48.3		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	45.6		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.5		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	49.0		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175		10 - 139	117%	SPK: 150
13127-88-3	Phenol-d6	165		10 - 134	110%	SPK: 150
4165-60-0	Nitrobenzene-d5	107		49 - 133	107%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		52 - 132	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		45 - 141	91%	SPK: 150
1718-51-0	Terphenyl-d14	112		45 - 142	112%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	341000	8.087			
1146-65-2	Naphthalene-d8	1440000	10.922			
15067-26-2	Acenaphthene-d10	878000	14.734			
1517-22-2	Phenanthrene-d10	1900000	17.498			
1719-03-5	Chrysene-d12	1780000	21.586			
1520-96-3	Perylene-d12	1920000	24.186			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		160	360	ug/Kg
108-95-2	Phenol	1800		81.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		98.3	190	ug/Kg
95-57-8	2-Chlorophenol	1700		78.8	190	ug/Kg
95-48-7	2-Methylphenol	1600		120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	190	ug/Kg
98-86-2	Acetophenone	1600		94.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		64.6	87.5	ug/Kg
67-72-1	Hexachloroethane	1700		80.5	190	ug/Kg
98-95-3	Nitrobenzene	1600		82.3	190	ug/Kg
78-59-1	Isophorone	1600		74.5	190	ug/Kg
88-75-5	2-Nitrophenol	1700		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		85.5	190	ug/Kg
91-20-3	Naphthalene	1600		89.1	190	ug/Kg
106-47-8	4-Chloroaniline	1400		110	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		91.9	190	ug/Kg
105-60-2	Caprolactam	1800		130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		90.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400	E	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		84.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		96.2	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		99.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		92.6	190	ug/Kg
88-74-4	2-Nitroaniline	1700		110	190	ug/Kg
131-11-3	Dimethylphthalate	1800		97.3	190	ug/Kg
208-96-8	Acenaphthylene	1600		96.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		98.5	190	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1500		100	190	ug/Kg
83-32-9	Acenaphthene	1600		87.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	200	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	360	ug/Kg
132-64-9	Dibenzofuran	1600		84.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		110	190	ug/Kg
84-66-2	Diethylphthalate	1700		94.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		98.9	190	ug/Kg
86-73-7	Fluorene	1700		92.8	190	ug/Kg
100-01-6	4-Nitroaniline	1500		110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		96.1	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		110	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		110	190	ug/Kg
1912-24-9	Atrazine	2100		100	190	ug/Kg
87-86-5	Pentachlorophenol	3300	E	120	360	ug/Kg
85-01-8	Phenanthrene	1700		100	190	ug/Kg
120-12-7	Anthracene	1700		110	190	ug/Kg
86-74-8	Carbazole	1700		92.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	1800		110	190	ug/Kg
206-44-0	Fluoranthene	1900		100	190	ug/Kg
129-00-0	Pyrene	1800		91.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		180	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		91.8	190	ug/Kg
218-01-9	Chrysene	1700		95.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		87.9	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	1700		96.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	1600		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		110	190	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1700		100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		97.8	190	ug/Kg
123-91-1	1,4-Dioxane	1300		130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		90.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.9		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.1		27 - 109	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.7		30 - 103	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 121	70%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		21 - 107	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	184000	7.804			
1146-65-2	Naphthalene-d8	716000	10.61			
15067-26-2	Acenaphthene-d10	398000	14.468			
1517-22-2	Phenanthrene-d10	828000	17.227			
1719-03-5	Chrysene-d12	796000	21.427			
1520-96-3	Perylene-d12	909000	23.797			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		160	360	ug/Kg
108-95-2	Phenol	1800		81.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		98.2	190	ug/Kg
95-57-8	2-Chlorophenol	1700		78.7	190	ug/Kg
95-48-7	2-Methylphenol	1700		120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	190	ug/Kg
98-86-2	Acetophenone	1600		94.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		64.5	87.5	ug/Kg
67-72-1	Hexachloroethane	1700		80.5	190	ug/Kg
98-95-3	Nitrobenzene	1600		82.2	190	ug/Kg
78-59-1	Isophorone	1700		74.5	190	ug/Kg
88-75-5	2-Nitrophenol	1800		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		85.4	190	ug/Kg
91-20-3	Naphthalene	1600		89.0	190	ug/Kg
106-47-8	4-Chloroaniline	1400		110	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		91.9	190	ug/Kg
105-60-2	Caprolactam	1800		130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		90.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400	E	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		84.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		96.1	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		99.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		92.5	190	ug/Kg
88-74-4	2-Nitroaniline	1800		110	190	ug/Kg
131-11-3	Dimethylphthalate	1800		97.2	190	ug/Kg
208-96-8	Acenaphthylene	1700		96.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		98.4	190	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1500		100	190	ug/Kg
83-32-9	Acenaphthene	1700		87.8	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2900		200	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	360	ug/Kg
132-64-9	Dibenzofuran	1600		84.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		110	190	ug/Kg
84-66-2	Diethylphthalate	1700		93.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		98.8	190	ug/Kg
86-73-7	Fluorene	1700		92.7	190	ug/Kg
100-01-6	4-Nitroaniline	1600		110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		96.0	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		110	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		110	190	ug/Kg
1912-24-9	Atrazine	2200		100	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	120	360	ug/Kg
85-01-8	Phenanthrene	1800		100	190	ug/Kg
120-12-7	Anthracene	1700		110	190	ug/Kg
86-74-8	Carbazole	1800		92.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		110	190	ug/Kg
206-44-0	Fluoranthene	1900		100	190	ug/Kg
129-00-0	Pyrene	1800		91.5	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	2000		180	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		91.7	190	ug/Kg
218-01-9	Chrysene	1700		94.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		87.8	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	1700		96.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		110	190	ug/Kg

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1700		100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		97.8	190	ug/Kg
123-91-1	1,4-Dioxane	1300		130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		90.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.6		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.1		27 - 109	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.3		30 - 103	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 121	71%	SPK: 150
1718-51-0	Terphenyl-d14	71.1		21 - 107	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	193000	7.804			
1146-65-2	Naphthalene-d8	742000	10.61			
15067-26-2	Acenaphthene-d10	413000	14.468			
1517-22-2	Phenanthrene-d10	855000	17.227			
1719-03-5	Chrysene-d12	829000	21.427			
1520-96-3	Perylene-d12	953000	23.797			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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A
B
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CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF062623.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Jun 26 23:12:04 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF133953.D 5 =BF133954.D 10 =BF133955.D 20 =BF133956.D 40 =BF133957.D 50 =BF133958.D 60 =BF133959.D 80 =BF1339
60.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.509	0.533	0.541	0.491	0.448	0.478	0.449	0.493	7.56
3)		Pyridine		1.291	1.230	1.419	1.277	1.209	1.313	1.251	1.284	5.39
4)		n-Nitrosodimet...		0.712	0.747	0.769	0.743	0.693	0.757	0.713	0.733	3.77
5)	S	2-Fluorophenol		1.333	1.301	1.332	1.173	1.076	1.120	1.034	1.196	10.54
6)		Aniline		1.914	1.876	1.956	1.789	1.688	1.709	1.592	1.789	7.45
7)	S	Phenol-d6		1.666	1.625	1.588	1.420	1.341	1.377	1.275	1.470	10.47
8)		2-Chlorophenol		1.370	1.327	1.334	1.184	1.124	1.120	1.036	1.214	10.68
9)		Benzaldehyde		1.029	1.058	0.971	0.808	0.730	0.719		0.886	17.16
10)	C	Phenol		1.770	1.703	1.706	1.507	1.412	1.428	1.297	1.546	11.68
11)		bis(2-Chloroet...		1.269	1.206	1.224	1.120	1.060	1.081	1.007	1.138	8.49
12)		1,3-Dichlorobe...		1.436	1.401	1.413	1.267	1.184	1.225	1.132	1.294	9.44
13)	C	1,4-Dichlorobe...		1.446	1.420	1.431	1.293	1.203	1.231	1.126	1.307	9.74
14)		1,2-Dichlorobe...		1.424	1.367	1.341	1.176	1.115	1.127	1.017	1.224	12.51
15)		Benzyl Alcohol		1.209	1.230	1.250	1.141	1.039	1.084	0.981	1.134	9.08
16)		2,2'-oxybis(1-...		2.231	2.170	2.160	1.981	1.913	1.898	1.743	2.014	8.86
17)		2-Methylphenol		1.172	1.170	1.175	1.078	1.025	1.018	0.971	1.087	7.87
18)		Hexachloroethane		0.532	0.519	0.520	0.482	0.449	0.463	0.427	0.485	8.29
19)	P	n-Nitroso-di-n...	1.083	1.033	0.997	1.007	0.887	0.815	0.849	0.788	0.932	11.89
20)		3+4-Methylphenols		1.527	1.485	1.480	1.290	1.177	1.200	1.071	1.319	13.63
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.523	0.509	0.489	0.439	0.408	0.428	0.389	0.455	11.41
23)	S	Nitrobenzene-d5		0.381	0.398	0.393	0.371	0.347	0.369	0.338	0.371	6.01
24)		Nitrobenzene		0.376	0.400	0.401	0.379	0.352	0.375	0.342	0.375	5.90
25)		Isophorone		0.712	0.715	0.701	0.661	0.633	0.667	0.629	0.674	5.35
26)	C	2-Nitrophenol		0.173	0.179	0.193	0.185	0.176	0.181	0.173	0.180	4.09
27)		2,4-Dimethylph...		0.301	0.303	0.305	0.285	0.265	0.276	0.258	0.285	6.69
28)		bis(2-Chloroet...		0.418	0.422	0.414	0.391	0.363	0.374	0.351	0.390	7.35
29)	C	2,4-Dichloroph...		0.306	0.292	0.304	0.284	0.263	0.274	0.253	0.282	7.07
30)		1,2,4-Trichlor...		0.315	0.308	0.311	0.290	0.268	0.286	0.262	0.291	7.25
31)		Naphthalene		1.073	1.058	1.041	0.951	0.881	0.924	0.835	0.966	9.64
32)		Benzoic acid		0.164	0.198	0.232	0.229	0.219	0.227	0.225	0.213	11.62
33)		4-Chloroaniline		0.437	0.441	0.443	0.414	0.389	0.401	0.368	0.413	6.93
34)	C	Hexachlorobuta...		0.195	0.198	0.195	0.183	0.172	0.180	0.163	0.184	7.07
35)		Caprolactam		0.094	0.096	0.097	0.094	0.088	0.094	0.088	0.093	3.60
36)	C	4-Chloro-3-met...		0.337	0.342	0.333	0.315	0.294	0.310	0.289	0.317	6.65
37)		2-Methylnaphth...		0.796	0.754	0.732	0.666	0.609	0.640	0.585	0.683	11.55
38)		1-Methylnaphth...		0.753	0.696	0.672	0.616	0.566	0.598	0.544	0.635	11.84

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF062623.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.626	0.639	0.634	0.585	0.562	0.574	0.528	0.593	7.08
41)	P	Hexachlorocycl...		0.214	0.264	0.295	0.297	0.310	0.307	0.281	12.98
42)	S	2,4,6-Tribromo...	0.259	0.274	0.270	0.248	0.235	0.243	0.225	0.251	7.23
43)	C	2,4,6-Trichlor...	0.412	0.433	0.423	0.404	0.391	0.394	0.367	0.403	5.45
44)		2,4,5-Trichlor...	0.494	0.503	0.500	0.473	0.454	0.467	0.431	0.474	5.57
45)	S	2-Fluorobiphenyl	1.574	1.574	1.501	1.328	1.243	1.265	1.144	1.376	12.61
46)		1,1'-Biphenyl	1.764	1.767	1.710	1.576	1.508	1.526	1.379	1.604	9.19
47)		2-Chloronaphth...	1.283	1.285	1.236	1.154	1.106	1.123	1.030	1.174	8.26
48)		2-Nitroaniline	0.407	0.444	0.452	0.431	0.422	0.432	0.406	0.428	4.05
49)		Acenaphthylene	2.169	2.206	2.171	1.979	1.901	1.909	1.703	2.005	9.26
50)		Dimethylphthalate	1.544	1.581	1.522	1.425	1.374	1.408	1.308	1.452	6.85
51)		2,6-Dinitrotol...	0.316	0.323	0.329	0.318	0.303	0.315	0.285	0.313	4.69
52)	C	Acenaphthene	1.242	1.279	1.252	1.143	1.089	1.122	1.018	1.164	8.33
53)		3-Nitroaniline	0.377	0.389	0.404	0.375	0.356	0.374	0.350	0.375	4.92
54)	P	2,4-Dinitrophenol		0.122	0.147	0.168	0.169	0.192	0.176	0.162	15.11
55)		Dibenzofuran	2.044	2.015	1.960	1.802	1.692	1.701	1.514	1.818	10.82
56)	P	4-Nitrophenol	0.236	0.262	0.280	0.269	0.265	0.272	0.253	0.262	5.43
57)		2,4-Dinitrotol...	0.417	0.439	0.450	0.417	0.396	0.407	0.364	0.413	6.84
58)		Fluorene	1.585	1.611	1.541	1.373	1.289	1.319	1.185	1.415	11.65
59)		2,3,4,6-Tetrac...	0.392	0.401	0.390	0.368	0.357	0.372	0.339	0.374	5.81
60)		Diethylphthalate	1.631	1.692	1.612	1.489	1.415	1.448	1.303	1.513	9.12
61)		4-Chlorophenyl...	0.773	0.767	0.733	0.667	0.623	0.638	0.572	0.682	11.35
62)		4-Nitroaniline	0.380	0.396	0.402	0.377	0.370	0.378	0.343	0.378	5.03
63)		Azobenzene	1.531	1.554	1.512	1.408	1.358	1.374	1.279	1.431	7.21
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.084	0.102	0.113	0.117	0.112	0.119	0.115	0.109	11.21
66)	c	n-Nitrosodiphe...	0.718	0.680	0.685	0.628	0.586	0.603	0.572	0.639	8.76
67)		4-Bromophenyl-...	0.227	0.222	0.228	0.213	0.199	0.203	0.196	0.213	6.33
68)		Hexachlorobenzene	0.241	0.236	0.242	0.221	0.211	0.222	0.207	0.226	6.33
69)		Atrazine	0.194	0.201	0.195	0.167	0.161	0.167	0.152	0.177	10.94
70)	C	Pentachlorophenol	0.119	0.135	0.144	0.141	0.134	0.137	0.135	0.135	5.81
71)		Phenanthrene	1.119	1.105	1.087	0.981	0.929	0.951	0.876	1.007	9.57
72)		Anthracene	1.184	1.145	1.149	1.015	0.951	0.988	0.898	1.047	10.64
73)		Carbazole	1.087	1.066	1.056	0.950	0.814	0.902	0.835	0.959	11.81
74)		Di-n-butylphth...	1.265	1.264	1.254	1.141	0.982	1.084	0.989	1.140	11.04
75)	C	Fluoranthene	1.284	1.246	1.207	1.054	0.919	1.012	0.897	1.088	14.52
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.583	0.479	0.512	0.452	0.410	0.418	0.476	13.66
78)		Pyrene	1.804	1.790	1.865	1.963	1.871	1.934	1.802	1.861	3.65
79)	S	Terphenyl-d14	1.283	1.241	1.284	1.267	1.214	1.253	1.156	1.243	3.64
80)		Butylbenzylpht...	0.668	0.702	0.723	0.721	0.685	0.720	0.666	0.698	3.58
81)		Benzo(a)anthra...	1.500	1.462	1.433	1.379	1.312	1.356	1.267	1.387	6.01
82)		3,3'-Dichlorob...	0.487	0.486	0.465	0.430	0.412	0.412	0.384	0.439	9.12
83)		Chrysene	1.472	1.404	1.400	1.329	1.260	1.306	1.234	1.343	6.39
84)		Bis(2-ethylhex...	0.753	0.832	0.832	0.821	0.785	0.822	0.770	0.802	4.02
85)	c	Di-n-octyl pht...	1.061	1.124	1.137	1.199	1.189	1.264	1.277	1.179	6.56

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF062623.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.095	1.182	1.435	1.520	1.545	1.488	1.449	1.388	12.71
88)		Benzo(b)fluora...	1.188	1.314	1.268	1.181	1.070	1.114	1.097	1.176	7.68
89)		Benzo(k)fluora...	1.276	1.365	1.306	1.161	1.093	1.156	1.025	1.197	10.23
90)	C	Benzo(a)pyrene	1.167	1.199	1.199	1.137	1.072	1.123	1.064	1.137	4.86
91)		Dibenzo(a,h)an...	0.911	0.995	1.181	1.240	1.255	1.200	1.153	1.134	11.50
92)		Benzo(g,h,i)pe...	0.965	0.979	1.212	1.269	1.296	1.247	1.214	1.169	11.79

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 25 01:46:04 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF134427.D 5 =BF134428.D 10 =BF134429.D 20 =BF134430.D 40 =BF134431.D 50 =BF134432.D 60 =BF134433.D 80 =BF1344
34.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.558	0.517	0.535	0.505	0.485	0.520	0.473	0.513	5.62
3)		Pyridine		0.951	1.128	1.205	1.226	1.192	1.221	1.144	1.153	8.34
4)		n-Nitrosodimet...		0.555	0.639	0.738	0.691	0.706	0.739	0.700	0.681	9.55
5)	S	2-Fluorophenol		1.153	1.231	1.311	1.266	1.166	1.221	1.126	1.211	5.46
6)		Aniline		1.728	1.863	1.890	1.789	1.672	1.719	1.575	1.748	6.26
7)	S	Phenol-d6		1.506	1.570	1.615	1.483	1.407	1.456	1.345	1.483	6.22
8)		2-Chlorophenol		1.265	1.281	1.316	1.252	1.162	1.201	1.107	1.226	5.97
9)		Benzaldehyde			0.931	0.895	0.749	0.705	0.690		0.794	14.01
10)	C	Phenol		1.606	1.569	1.663	1.568	1.457	1.533	1.406	1.543	5.68
11)		bis(2-Chloroet...		1.187	1.110	1.091	1.067	1.005	1.089	0.992	1.077	6.13
12)		1,3-Dichlorobe...		1.332	1.353	1.431	1.369	1.240	1.310	1.194	1.319	6.05
13)	C	1,4-Dichlorobe...		1.482	1.400	1.450	1.386	1.245	1.323	1.214	1.357	7.44
14)		1,2-Dichlorobe...		1.367	1.339	1.379	1.270	1.184	1.251	1.134	1.275	7.31
15)		Benzyl Alcohol		1.109	1.122	1.242	1.217	1.109	1.163	1.055	1.145	5.77
16)		2,2'-oxybis(1-...		1.635	1.692	1.667	1.590	1.514	1.579	1.428	1.586	5.77
17)		2-Methylphenol		1.209	1.112	1.159	1.122	1.017	1.062	0.974	1.094	7.47
18)		Hexachloroethane		0.544	0.559	0.561	0.518	0.488	0.511	0.468	0.521	6.80
19)	P	n-Nitroso-di-n...	1.030	0.926	0.966	0.980	0.928	0.855	0.886	0.816	0.923	7.54
20)		3+4-Methylphenols		1.477	1.518	1.508	1.423	1.294	1.337	1.245	1.400	7.79
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.503	0.522	0.518	0.503	0.476	0.490	0.470	0.497	4.00
23)	S	Nitrobenzene-d5		0.383	0.396	0.407	0.404	0.388	0.401	0.389	0.395	2.30
24)		Nitrobenzene		0.398	0.390	0.403	0.392	0.385	0.401	0.383	0.393	1.96
25)		Isophorone		0.657	0.670	0.674	0.668	0.644	0.662	0.637	0.659	2.11
26)	C	2-Nitrophenol		0.165	0.180	0.190	0.186	0.181	0.185	0.178	0.181	4.35
27)		2,4-Dimethylph...		0.281	0.293	0.298	0.288	0.277	0.281	0.279	0.285	2.72
28)		bis(2-Chloroet...		0.363	0.370	0.379	0.368	0.362	0.371	0.353	0.367	2.27
29)	C	2,4-Dichloroph...		0.284	0.293	0.291	0.292	0.277	0.286	0.274	0.285	2.62
30)		1,2,4-Trichlor...		0.314	0.317	0.312	0.315	0.298	0.306	0.293	0.308	3.04
31)		Naphthalene		0.988	1.042	1.028	1.011	0.951	0.996	0.952	0.995	3.53
32)		Benzoic acid		0.150	0.168	0.197	0.203	0.191	0.211	0.214	0.191	12.36
33)		4-Chloroaniline		0.414	0.417	0.431	0.422	0.394	0.403	0.399	0.411	3.19
34)	C	Hexachlorobuta...		0.204	0.215	0.218	0.212	0.197	0.204	0.193	0.206	4.45
35)		Caprolactam		0.080	0.092	0.086	0.091	0.086	0.089	0.086	0.087	4.47
36)	C	4-Chloro-3-met...		0.327	0.336	0.331	0.336	0.322	0.332	0.319	0.329	1.98
37)		2-Methylnaphth...		0.722	0.711	0.716	0.702	0.660	0.681	0.651	0.692	4.06
38)		1-Methylnaphth...		0.671	0.644	0.673	0.650	0.620	0.632	0.601	0.642	4.10

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.655	0.661	0.654	0.582	0.614	0.652	0.620	0.634	4.61
41)	P	Hexachlorocycl...		0.060	0.111	0.151	0.182	0.193	0.216	0.152	38.06
42)	S	2,4,6-Tribromo...	0.274	0.274	0.300	0.293	0.277	0.292	0.279	0.284	3.78
43)	C	2,4,6-Trichlor...	0.404	0.409	0.420	0.417	0.389	0.410	0.398	0.407	2.64
44)		2,4,5-Trichlor...	0.459	0.452	0.503	0.492	0.454	0.488	0.469	0.474	4.34
45)	S	2-Fluorobiphenyl	1.576	1.594	1.604	1.555	1.427	1.499	1.408	1.523	5.26
46)		1,1'-Biphenyl	1.667	1.679	1.735	1.681	1.559	1.642	1.576	1.648	3.77
47)		2-Chloronaphth...	1.231	1.248	1.258	1.234	1.144	1.221	1.170	1.215	3.47
48)		2-Nitroaniline	0.408	0.418	0.441	0.461	0.430	0.460	0.445	0.438	4.66
49)		Acenaphthylene	2.042	2.114	2.151	2.112	1.923	2.074	1.955	2.053	4.17
50)		Dimethylphthalate	1.433	1.488	1.541	1.523	1.429	1.511	1.453	1.483	3.03
51)		2,6-Dinitrotol...	0.326	0.316	0.332	0.339	0.308	0.335	0.321	0.325	3.36
52)	C	Acenaphthene	1.250	1.200	1.264	1.249	1.146	1.216	1.164	1.213	3.74
53)		3-Nitroaniline	0.343	0.375	0.402	0.386	0.364	0.376	0.364	0.373	4.95
54)	P	2,4-Dinitrophenol		0.089	0.122	0.149	0.158	0.167	0.173	0.143	22.41
55)		Dibenzofuran	1.892	1.872	1.997	1.910	1.769	1.872	1.755	1.867	4.46
56)	P	4-Nitrophenol		0.153	0.189	0.205	0.208	0.222	0.217	0.199	12.63
57)		2,4-Dinitrotol...	0.419	0.422	0.451	0.461	0.423	0.455	0.428	0.437	4.09
58)		Fluorene	1.504	1.530	1.563	1.546	1.440	1.513	1.444	1.506	3.17
59)		2,3,4,6-Tetrac...	0.378	0.349	0.356	0.374	0.353	0.376	0.361	0.364	3.33
60)		Diethylphthalate	1.552	1.545	1.581	1.560	1.465	1.564	1.478	1.535	2.92
61)		4-Chlorophenyl...	0.726	0.714	0.765	0.742	0.688	0.716	0.683	0.719	4.03
62)		4-Nitroaniline	0.342	0.370	0.399	0.402	0.378	0.399	0.389	0.383	5.64
63)		Azobenzene	1.426	1.396	1.444	1.442	1.364	1.442	1.376	1.413	2.40
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.095	0.113	0.121	0.116	0.123	0.120	0.115	9.04
66)	c	n-Nitrosodiphe...	0.650	0.657	0.662	0.653	0.605	0.626	0.601	0.636	4.00
67)		4-Bromophenyl-...	0.228	0.221	0.229	0.222	0.210	0.217	0.207	0.219	3.92
68)		Hexachlorobenzene	0.248	0.259	0.258	0.250	0.237	0.242	0.233	0.247	4.03
69)		Atrazine	0.190	0.190	0.187	0.186	0.167	0.166	0.156	0.177	7.85
70)	C	Pentachlorophenol		0.090	0.096	0.108	0.103	0.113	0.112	0.104	8.86
71)		Phenanthrene	1.030	1.104	1.101	1.069	1.006	1.025	0.981	1.045	4.54
72)		Anthracene	1.044	1.134	1.119	1.111	1.047	1.076	1.019	1.079	4.05
73)		Carbazole	1.002	1.050	1.057	1.031	0.989	1.017	0.964	1.016	3.28
74)		Di-n-butylphth...	1.180	1.197	1.205	1.197	1.140	1.154	1.089	1.166	3.58
75)	C	Fluoranthene	1.267	1.261	1.256	1.229	1.176	1.200	1.135	1.218	4.08
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.495	0.435	0.439	0.431	0.370	0.393	0.427	10.07
78)		Pyrene	1.521	1.515	1.603	1.594	1.606	1.648	1.645	1.590	3.36
79)	S	Terphenyl-d14	1.100	1.119	1.166	1.147	1.144	1.181	1.162	1.146	2.44
80)		Butylbenzylpht...	0.604	0.602	0.646	0.653	0.652	0.666	0.636	0.637	3.87
81)		Benzo(a)anthra...	1.435	1.405	1.450	1.381	1.361	1.406	1.329	1.395	3.00
82)		3,3'-Dichlorob...	0.467	0.459	0.484	0.441	0.426	0.422	0.395	0.442	6.88
83)		Chrysene	1.353	1.335	1.428	1.347	1.315	1.302	1.262	1.335	3.85
84)		Bis(2-ethylhex...	0.778	0.736	0.800	0.788	0.793	0.787	0.735	0.774	3.52
85)	c	Di-n-octyl pht...	1.079	1.076	1.083	1.092	1.072	1.086	1.040	1.075	1.59

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.101	1.114	1.222	1.371	1.370	1.490	1.477	1.307	12.40
88)		Benzo(b)fluora...	1.244	1.340	1.312	1.216	1.214	1.275	1.156	1.251	5.03
89)		Benzo(k)fluora...	1.229	1.240	1.329	1.284	1.158	1.216	1.158	1.230	5.07
90)	C	Benzo(a)pyrene	1.128	1.172	1.197	1.172	1.136	1.171	1.119	1.157	2.48
91)		Dibenzo(a,h)an...	0.909	0.869	0.992	1.100	1.109	1.211	1.197	1.055	12.80
92)		Benzo(g,h,i)pe...	0.878	0.887	1.045	1.125	1.152	1.255	1.243	1.083	14.30

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 02 02:20:34 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF134536.D 5 =BF134537.D 10 =BF134538.D 20 =BF134539.D 40 =BF134540.D 50 =BF134541.D 60 =BF134542.D 80 =BF1345
43.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.641	0.648	0.649	0.606	0.573	0.576	0.546	0.605	6.88
3)		Pyridine		1.765	1.756	1.759	1.627	1.547	1.536	1.492	1.640	7.24
4)		n-Nitrosodimet...		0.798	0.821	0.837	0.792	0.759	0.761	0.719	0.784	5.20
5)	S	2-Fluorophenol		1.494	1.480	1.472	1.302	1.202	1.172	1.088	1.316	12.75
6)		Aniline		2.431	2.372	2.389	2.189	2.069	2.071	1.921	2.206	8.88
7)	S	Phenol-d6		1.904	1.907	1.855	1.660	1.535	1.531	1.382	1.682	12.49
8)		2-Chlorophenol		1.482	1.455	1.482	1.331	1.227	1.215	1.098	1.327	11.49
9)		Benzaldehyde		1.196	1.107	0.999	0.805	0.726	0.667		0.917	23.50
10)	C	Phenol		1.866	1.816	1.836	1.679	1.520	1.528	1.356	1.657	11.75
11)		bis(2-Chloroet...		1.482	1.460	1.439	1.305	1.220	1.211	1.100	1.317	11.22
12)		1,3-Dichlorobe...		1.572	1.529	1.504	1.362	1.249	1.252	1.144	1.373	12.03
13)	C	1,4-Dichlorobe...		1.581	1.544	1.513	1.372	1.256	1.240	1.128	1.376	12.70
14)		1,2-Dichlorobe...		1.509	1.471	1.448	1.273	1.155	1.120	1.002	1.282	15.45
15)		Benzyl Alcohol		1.307	1.317	1.316	1.169	1.065	1.032	0.916	1.160	13.89
16)		2,2'-oxybis(1-...		2.306	2.246	2.249	2.054	1.917	1.908	1.760	2.063	10.18
17)		2-Methylphenol		1.271	1.274	1.267	1.169	1.101	1.099	1.028	1.173	8.55
18)		Hexachloroethane		0.519	0.514	0.534	0.480	0.456	0.459	0.418	0.483	8.58
19)	P	n-Nitroso-di-n...	1.139	1.113	1.108	1.075	0.978	0.908	0.897	0.838	1.007	11.54
20)		3+4-Methylphenols		1.661	1.662	1.622	1.425	1.258	1.212	1.061	1.414	17.20
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.542	0.533	0.514	0.455	0.410	0.410	0.369	0.462	14.82
23)	S	Nitrobenzene-d5		0.258	0.304	0.343	0.341	0.331	0.339	0.324	0.320	9.53
24)		Nitrobenzene		0.299	0.346	0.374	0.364	0.346	0.359	0.331	0.346	7.26
25)		Isophorone		0.744	0.732	0.736	0.690	0.655	0.677	0.652	0.698	5.58
26)	C	2-Nitrophenol		0.065	0.086	0.116	0.138	0.143	0.155	0.155	0.122	28.81
27)		2,4-Dimethylph...		0.330	0.335	0.336	0.307	0.294	0.292	0.285	0.311	7.10
28)		bis(2-Chloroet...		0.449	0.449	0.455	0.411	0.390	0.397	0.371	0.418	8.11
29)	C	2,4-Dichloroph...		0.285	0.292	0.302	0.289	0.273	0.277	0.261	0.283	4.84
30)		1,2,4-Trichlor...		0.326	0.322	0.324	0.301	0.284	0.287	0.265	0.301	7.86
31)		Naphthalene		1.121	1.122	1.102	1.010	0.921	0.919	0.841	1.005	11.32
32)		Benzoic acid			0.097	0.145	0.177	0.199	0.219	0.221	0.176	27.31
33)		4-Chloroaniline		0.481	0.475	0.479	0.443	0.415	0.432	0.409	0.448	6.86
34)	C	Hexachlorobuta...		0.191	0.186	0.188	0.174	0.162	0.164	0.152	0.174	8.64
35)		Caprolactam		0.083	0.090	0.094	0.095	0.090	0.095	0.090	0.091	4.47
36)	C	4-Chloro-3-met...		0.307	0.311	0.323	0.302	0.286	0.293	0.275	0.299	5.41
37)		2-Methylnaphth...		0.760	0.749	0.743	0.657	0.613	0.604	0.538	0.666	12.96
38)		1-Methylnaphth...		0.703	0.683	0.684	0.618	0.564	0.571	0.514	0.620	11.74

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF080123.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.644	0.652	0.630	0.585	0.526	0.542	0.492	0.582	10.82
41)	P	Hexachlorocycl...	0.247	0.271	0.296	0.306	0.288	0.289	0.283	0.283	6.79
42)	S	2,4,6-Tribromo...	0.180	0.209	0.222	0.216	0.198	0.206	0.197	0.204	6.76
43)	C	2,4,6-Trichlor...	0.367	0.386	0.409	0.391	0.370	0.385	0.357	0.381	4.59
44)		2,4,5-Trichlor...	0.430	0.457	0.464	0.451	0.410	0.428	0.405	0.435	5.28
45)	S	2-Fluorobiphenyl		1.533	1.418	1.220	1.048	1.061	0.937	1.203	19.34
46)		1,1'-Biphenyl	1.803	1.771	1.705	1.564	1.391	1.395	1.257	1.555	13.68
47)		2-Chloronaphth...	1.293	1.303	1.266	1.173	1.060	1.076	0.986	1.165	10.89
48)		2-Nitroaniline	0.172	0.245	0.327	0.362	0.354	0.380	0.371	0.316	24.66
49)		Acenaphthylene	2.038	2.049	2.008	1.845	1.671	1.689	1.522	1.832	11.43
50)		Dimethylphthalate	1.472	1.477	1.458	1.372	1.252	1.301	1.211	1.363	8.12
51)		2,6-Dinitrotol...	0.144	0.205	0.262	0.281	0.275	0.289	0.282	0.248	21.79
52)	C	Acenaphthene	1.304	1.321	1.294	1.192	1.082	1.106	1.011	1.187	10.40
53)		3-Nitroaniline	0.193	0.266	0.317	0.342	0.323	0.347	0.339	0.304	18.36
54)	P	2,4-Dinitrophenol		0.038	0.056	0.077	0.090	0.105	0.109	0.079	35.42
55)		Dibenzofuran	1.906	1.888	1.851	1.737	1.527	1.532	1.388	1.690	12.25
56)	P	4-Nitrophenol		0.195	0.244	0.259	0.257	0.273	0.263	0.248	11.17
57)		2,4-Dinitrotol...	0.148	0.222	0.298	0.341	0.339	0.361	0.334	0.292	26.82
58)		Fluorene	1.479	1.477	1.390	1.205	1.054	1.066	0.947	1.231	17.77
59)		2,3,4,6-Tetrac...	0.323	0.354	0.366	0.359	0.341	0.342	0.324	0.344	4.79
60)		Diethylphthalate	1.389	1.411	1.396	1.321	1.186	1.221	1.122	1.292	8.96
61)		4-Chlorophenyl...	0.735	0.716	0.678	0.592	0.517	0.531	0.465	0.605	17.53
62)		4-Nitroaniline	0.197	0.259	0.307	0.333	0.322	0.340	0.327	0.298	17.38
63)		Azobenzene	1.515	1.538	1.502	1.405	1.274	1.302	1.181	1.388	9.99
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.034	0.054	0.071	0.078	0.088	0.089	0.069	31.15
66)	c	n-Nitrosodiphe...	0.693	0.707	0.695	0.641	0.582	0.595	0.543	0.637	10.14
67)		4-Bromophenyl-...	0.233	0.229	0.239	0.220	0.205	0.209	0.197	0.219	7.15
68)		Hexachlorobenzene	0.240	0.249	0.251	0.235	0.215	0.221	0.207	0.231	7.39
69)		Atrazine	0.185	0.194	0.191	0.171	0.160	0.153	0.147	0.172	11.01
70)	C	Pentachlorophenol	0.112	0.133	0.155	0.156	0.147	0.154	0.146	0.143	11.08
71)		Phenanthrene	1.205	1.194	1.177	1.072	0.953	0.960	0.876	1.062	12.66
72)		Anthracene	1.225	1.217	1.209	1.094	0.978	0.987	0.887	1.085	12.64
73)		Carbazole	1.071	1.070	1.067	0.978	0.887	0.893	0.815	0.969	10.87
74)		Di-n-butylphth...	1.053	1.103	1.155	1.066	0.955	0.980	0.894	1.029	8.84
75)	C	Fluoranthene	1.238	1.235	1.243	1.154	1.031	1.032	0.922	1.122	11.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.524	0.492	0.412	0.482	0.402	0.358	0.370	0.434	14.94
78)		Pyrene	1.617	1.671	1.726	1.747	1.733	1.824	1.797	1.731	4.08
79)	S	Terphenyl-d14	1.167	1.157	1.157	1.136	1.100	1.140	1.084	1.135	2.74
80)		Butylbenzylpht...	0.431	0.494	0.571	0.629	0.640	0.677	0.655	0.585	15.65
81)		Benzo(a)anthra...	1.457	1.472	1.482	1.451	1.371	1.425	1.352	1.430	3.52
82)		3,3'-Dichlorob...	0.417	0.438	0.438	0.417	0.400	0.409	0.383	0.415	4.77
83)		Chrysene	1.427	1.418	1.437	1.399	1.351	1.405	1.316	1.393	3.16
84)		Bis(2-ethylhex...	0.631	0.693	0.711	0.727	0.687	0.720	0.652	0.689	5.17
85)	c	Di-n-octyl pht...	0.877	0.956	1.042	1.103	1.062	1.196	1.095	1.047	9.94

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF080123.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.019	1.028	1.101	1.261	1.234	1.316	1.274	1.176	10.52
88)		Benzo(b)fluora...	1.270	1.271	1.358	1.210	1.129	1.183	1.117	1.220	7.07
89)		Benzo(k)fluora...	1.224	1.326	1.296	1.287	1.165	1.146	1.063	1.215	7.84
90)	C	Benzo(a)pyrene	1.124	1.179	1.178	1.174	1.099	1.133	1.075	1.137	3.65
91)		Dibenzo(a,h)an...	0.819	0.841	0.889	1.017	1.001	1.055	1.033	0.951	10.31
92)		Benzo(g,h,i)pe...	0.801	0.826	0.897	1.042	1.042	1.091	1.088	0.970	12.88

(#) = Out of Range

Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 22:29:07 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG058510.D 5 =BG058511.D 10 =BG058512.D 20 =BG058513.D 40 =BG058514.D 50 =BG058515.D 60 =BG058516.D 80 =BG0585
17.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.672	0.707	0.678	0.630	0.591	0.604	0.556	0.634	8.50
3)		Pyridine		1.800	1.767	1.861	1.755	1.648	1.690	1.580	1.729	5.53
4)		n-Nitrosodimet...		0.778	0.762	0.788	0.737	0.693	0.707	0.662	0.732	6.39
5)	S	2-Fluorophenol		1.394	1.389	1.419	1.318	1.230	1.250	1.159	1.309	7.52
6)		Aniline		2.285	2.268	2.387	2.318	2.168	2.190	2.076	2.242	4.64
7)	S	Phenol-d6		1.923	1.870	1.962	1.855	1.737	1.759	1.639	1.821	6.25
8)		2-Chlorophenol		1.347	1.329	1.393	1.290	1.220	1.247	1.160	1.284	6.25
9)		Benzaldehyde			1.165	1.118	0.948	0.861	0.854		0.989	14.64
10)	C	Phenol		1.838	1.857	1.912	1.818	1.691	1.730	1.606	1.779	6.03
11)		bis(2-Chloroet...		1.536	1.455	1.465	1.387	1.344	1.374	1.256	1.402	6.54
12)		1,3-Dichlorobe...		1.463	1.456	1.500	1.367	1.287	1.307	1.216	1.371	7.74
13)	C	1,4-Dichlorobe...		1.503	1.446	1.479	1.376	1.288	1.328	1.215	1.376	7.71
14)		1,2-Dichlorobe...		1.412	1.419	1.431	1.315	1.229	1.250	1.155	1.316	8.27
15)		Benzyl Alcohol		0.934	1.098	1.224	1.234	1.182	1.235	1.176	1.155	9.38
16)		2,2'-oxybis(1-...		2.403	2.394	2.421	2.272	2.178	2.198	2.077	2.278	5.85
17)		2-Methylphenol		1.349	1.379	1.373	1.313	1.238	1.261	1.189	1.300	5.58
18)		Hexachloroethane		0.544	0.523	0.528	0.500	0.474	0.484	0.450	0.500	6.68
19)	P	n-Nitroso-di-n...	1.237	1.220	1.214	1.251	1.181	1.113	1.134	1.058	1.176	5.77
20)		3+4-Methylphenols		1.733	1.744	1.898	1.830	1.721	1.752	1.635	1.759	4.77
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.540	0.539	0.577	0.548	0.517	0.526	0.502	0.536	4.48
23)	S	Nitrobenzene-d5		0.402	0.406	0.434	0.416	0.393	0.409	0.389	0.407	3.73
24)		Nitrobenzene		0.395	0.427	0.440	0.423	0.401	0.415	0.396	0.414	4.17
25)		Isophorone		0.847	0.868	0.883	0.851	0.808	0.830	0.801	0.841	3.57
26)	C	2-Nitrophenol		0.163	0.172	0.185	0.189	0.181	0.189	0.182	0.180	5.27
27)		2,4-Dimethylph...		0.289	0.295	0.317	0.308	0.293	0.298	0.292	0.299	3.39
28)		bis(2-Chloroet...		0.433	0.467	0.485	0.475	0.446	0.462	0.436	0.458	4.34
29)	C	2,4-Dichloroph...		0.294	0.305	0.326	0.323	0.302	0.315	0.307	0.310	3.76
30)		1,2,4-Trichlor...		0.370	0.363	0.376	0.363	0.343	0.352	0.337	0.358	4.05
31)		Naphthalene		1.104	1.108	1.122	1.062	0.997	1.025	0.960	1.054	5.89
32)		Benzoic acid			0.130	0.180	0.236	0.224	0.241	0.233	0.207	21.11
33)		4-Chloroaniline		0.395	0.433	0.464	0.476	0.441	0.463	0.445	0.445	6.01
34)	C	Hexachlorobuta...		0.238	0.229	0.246	0.232	0.219	0.229	0.220	0.230	4.05
35)		Caprolactam		0.110	0.121	0.120	0.119	0.109	0.113	0.111	0.115	4.54
36)	C	4-Chloro-3-met...		0.368	0.388	0.406	0.397	0.375	0.384	0.369	0.384	3.73
37)		2-Methylnaphth...		0.793	0.777	0.796	0.766	0.717	0.733	0.696	0.754	5.17
38)		1-Methylnaphth...		0.766	0.765	0.757	0.715	0.672	0.693	0.649	0.717	6.61

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.634	0.623	0.642	0.613	0.594	0.615	0.577	0.614	3.65
41)	P	Hexachlorocycl...		0.135	0.203	0.249	0.264	0.278	0.289	0.236	24.54
42)	S	2,4,6-Tribromo...	0.326	0.344	0.346	0.334	0.313	0.326	0.306	0.328	4.51
43)	C	2,4,6-Trichlor...	0.411	0.414	0.442	0.435	0.412	0.433	0.409	0.422	3.31
44)		2,4,5-Trichlor...	0.506	0.521	0.493	0.499	0.478	0.505	0.479	0.497	3.12
45)	S	2-Fluorobiphenyl	1.469	1.429	1.449	1.313	1.240	1.279	1.163	1.335	8.76
46)		1,1'-Biphenyl	1.422	1.425	1.455	1.370	1.328	1.355	1.258	1.374	4.92
47)		2-Chloronaphth...	1.103	1.102	1.138	1.067	1.026	1.065	0.997	1.071	4.52
48)		2-Nitroaniline	0.364	0.385	0.432	0.427	0.412	0.429	0.411	0.409	6.21
49)		Acenaphthylene	1.890	1.876	1.919	1.802	1.697	1.752	1.615	1.793	6.24
50)		Dimethylphthalate	1.585	1.583	1.595	1.501	1.421	1.468	1.362	1.502	6.03
51)		2,6-Dinitrotol...	0.321	0.338	0.345	0.335	0.319	0.332	0.317	0.330	3.21
52)	C	Acenaphthene	1.096	1.077	1.108	1.030	0.981	1.018	0.942	1.036	5.94
53)		3-Nitroaniline	0.281	0.315	0.351	0.347	0.333	0.350	0.331	0.330	7.60
54)	P	2,4-Dinitrophenol		0.076	0.120	0.164	0.166	0.188	0.185	0.150	29.14
55)		Dibenzofuran	1.911	1.931	1.899	1.773	1.661	1.711	1.576	1.780	7.77
56)	P	4-Nitrophenol		0.161	0.203	0.245	0.228	0.253	0.239	0.222	15.53
57)		2,4-Dinitrotol...	0.415	0.466	0.492	0.473	0.448	0.466	0.439	0.457	5.51
58)		Fluorene	1.561	1.548	1.529	1.397	1.304	1.333	1.227	1.414	9.43
59)		2,3,4,6-Tetrac...	0.431	0.438	0.432	0.430	0.408	0.426	0.408	0.424	2.81
60)		Diethylphthalate	1.626	1.678	1.634	1.527	1.422	1.469	1.355	1.530	7.90
61)		4-Chlorophenyl...	0.850	0.834	0.833	0.782	0.744	0.762	0.714	0.788	6.55
62)		4-Nitroaniline	0.243	0.310	0.329	0.338	0.312	0.336	0.318	0.312	10.37
63)		Azobenzene	1.594	1.615	1.605	1.515	1.416	1.456	1.350	1.507	6.88
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.083	0.103	0.118	0.115	0.123	0.119	0.110	13.45
66)	c	n-Nitrosodiphe...	0.533	0.535	0.564	0.522	0.502	0.508	0.481	0.521	5.16
67)		4-Bromophenyl-...	0.230	0.230	0.236	0.227	0.220	0.228	0.217	0.227	2.76
68)		Hexachlorobenzene	0.251	0.245	0.253	0.238	0.232	0.239	0.226	0.240	4.13
69)		Atrazine	0.191	0.197	0.195	0.176	0.161	0.159	0.151	0.176	10.72
70)	C	Pentachlorophenol		0.110	0.139	0.155	0.152	0.161	0.156	0.145	13.09
71)		Phenanthrene	1.024	1.019	1.023	0.943	0.883	0.910	0.838	0.948	7.99
72)		Anthracene	1.041	1.042	1.051	0.975	0.911	0.937	0.857	0.973	7.73
73)		Carbazole	0.846	0.913	0.928	0.885	0.812	0.849	0.775	0.858	6.34
74)		Di-n-butylphth...	1.080	1.164	1.168	1.098	1.013	1.050	0.953	1.075	7.24
75)	C	Fluoranthene	1.202	1.245	1.230	1.156	1.048	1.099	0.996	1.139	8.32
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.279	0.303	0.242	0.370	0.317	0.298	0.314	0.303	12.82
78)		Pyrene	1.438	1.453	1.447	1.362	1.287	1.320	1.219	1.361	6.65
79)	S	Terphenyl-d14	1.178	1.169	1.153	1.051	0.985	1.001	0.907	1.064	9.94
80)		Butylbenzylpht...	0.554	0.568	0.585	0.571	0.550	0.561	0.525	0.559	3.36
81)		Benzo(a)anthra...	1.430	1.443	1.436	1.386	1.311	1.362	1.267	1.376	4.91
82)		3,3'-Dichlorob...	0.440	0.478	0.490	0.481	0.453	0.472	0.444	0.465	4.22
83)		Chrysene	1.361	1.397	1.393	1.325	1.258	1.291	1.212	1.320	5.30
84)		Bis(2-ethylhex...	0.834	0.849	0.866	0.833	0.783	0.809	0.746	0.817	5.05
85)	c	Di-n-octyl pht...	1.450	1.466	1.501	1.467	1.393	1.443	1.335	1.436	3.85

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.307	1.349	1.386	1.367	1.288	1.345	1.271	1.331	3.19
88)		Benzo(b)fluora...	1.109	1.117	1.149	1.117	1.041	1.067	0.993	1.085	4.96
89)		Benzo(k)fluora...	1.133	1.139	1.148	1.103	1.023	1.075	1.007	1.090	5.21
90)	C	Benzo(a)pyrene	1.079	1.086	1.113	1.088	1.021	1.065	1.004	1.065	3.67
91)		Dibenzo(a,h)an...	1.077	1.127	1.148	1.129	1.059	1.114	1.048	1.100	3.54
92)		Benzo(g,h,i)pe...	1.089	1.122	1.151	1.128	1.060	1.113	1.059	1.103	3.18

(#) = Out of Range

Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jul 29 00:19:24 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BM041158.D 5 =BM041159.D 10 =BM041160.D 20 =BM041161.D 40 =BM041162.D 50 =BM041163.D 60 =BM041164.D 80 =BM0411
65.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.598	0.607	0.601	0.572	0.543	0.562	0.524	0.572	5.54
3)		Pyridine		1.372	1.497	1.610	1.565	1.488	1.538	1.467	1.505	5.09
4)		n-Nitrosodimet...		0.696	0.712	0.741	0.705	0.665	0.695	0.658	0.696	4.05
5)	S	2-Fluorophenol		1.294	1.392	1.395	1.361	1.305	1.348	1.274	1.338	3.59
6)		Aniline		1.995	2.050	2.173	2.060	1.966	2.031	1.935	2.030	3.81
7)	S	Phenol-d6		1.706	1.763	1.842	1.752	1.678	1.751	1.651	1.735	3.65
8)		2-Chlorophenol		1.342	1.345	1.385	1.313	1.247	1.292	1.221	1.306	4.41
9)		Benzaldehyde			1.086	1.006	0.883	0.795	0.806		0.915	13.90
10)	C	Phenol		1.664	1.717	1.775	1.684	1.612	1.688	1.586	1.675	3.78
11)		bis(2-Chloroet...		1.354	1.416	1.443	1.366	1.283	1.356	1.276	1.356	4.56
12)		1,3-Dichlorobe...		1.462	1.495	1.508	1.416	1.353	1.401	1.319	1.422	4.99
13)	C	1,4-Dichlorobe...		1.487	1.501	1.500	1.418	1.363	1.409	1.327	1.429	4.85
14)		1,2-Dichlorobe...		1.444	1.444	1.440	1.363	1.301	1.342	1.259	1.370	5.47
15)		Benzyl Alcohol		1.115	1.002	1.114	1.109	1.087	1.150	1.090	1.095	4.21
16)		2,2'-oxybis(1-...		1.909	1.876	1.941	1.807	1.699	1.770	1.645	1.807	6.08
17)		2-Methylphenol		1.152	1.136	1.217	1.165	1.103	1.155	1.084	1.145	3.78
18)		Hexachloroethane		0.538	0.531	0.560	0.544	0.514	0.533	0.505	0.532	3.49
19)	P	n-Nitroso-di-n...	1.022	1.024	1.037	1.140	1.082	1.029	1.096	0.999	1.054	4.50
20)		3+4-Methylphenols		1.453	1.524	1.643	1.562	1.489	1.571	1.471	1.530	4.36
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.511	0.513	0.545	0.539	0.521	0.547	0.531	0.530	2.80
23)	S	Nitrobenzene-d5		0.395	0.420	0.442	0.442	0.429	0.448	0.435	0.430	4.24
24)		Nitrobenzene		0.409	0.430	0.449	0.446	0.428	0.447	0.436	0.435	3.30
25)		Isophorone		0.653	0.682	0.752	0.752	0.731	0.787	0.753	0.730	6.39
26)	C	2-Nitrophenol		0.139	0.148	0.169	0.180	0.177	0.188	0.188	0.170	11.40
27)		2,4-Dimethylph...		0.271	0.290	0.309	0.309	0.298	0.308	0.308	0.299	4.82
28)		bis(2-Chloroet...		0.433	0.448	0.474	0.469	0.447	0.474	0.455	0.457	3.44
29)	C	2,4-Dichloroph...		0.262	0.285	0.312	0.313	0.303	0.322	0.313	0.302	6.97
30)		1,2,4-Trichlor...		0.324	0.328	0.338	0.336	0.328	0.343	0.338	0.333	2.09
31)		Naphthalene		1.089	1.087	1.118	1.089	1.048	1.100	1.066	1.085	2.08
32)		Benzoic acid			0.118	0.167	0.205	0.213	0.243	0.242	0.198	24.33
33)		4-Chloroaniline		0.389	0.418	0.443	0.446	0.431	0.465	0.445	0.434	5.66
34)	C	Hexachlorobuta...		0.196	0.192	0.204	0.204	0.197	0.205	0.204	0.200	2.61
35)		Caprolactam			0.071	0.082	0.089	0.088	0.100	0.093	0.087	11.31
36)	C	4-Chloro-3-met...		0.287	0.297	0.325	0.326	0.318	0.344	0.326	0.318	6.07
37)		2-Methylnaphth...		0.707	0.716	0.751	0.737	0.712	0.764	0.734	0.732	2.88
38)		1-Methylnaphth...		0.673	0.670	0.701	0.689	0.666	0.713	0.682	0.685	2.51

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.611	0.637	0.663	0.661	0.644	0.660	0.670	0.649	3.16
41)	P	Hexachlorocycl...		0.266	0.320	0.361	0.357	0.362	0.396	0.344	13.11
42)	S	2,4,6-Tribromo...	0.241	0.258	0.285	0.292	0.286	0.313	0.305	0.283	8.96
43)	C	2,4,6-Trichlor...	0.353	0.390	0.425	0.434	0.421	0.444	0.447	0.416	8.15
44)		2,4,5-Trichlor...	0.414	0.455	0.490	0.497	0.489	0.514	0.514	0.482	7.43
45)	S	2-Fluorobiphenyl	1.537	1.543	1.618	1.622	1.552	1.614	1.597	1.583	2.39
46)		1,1'-Biphenyl	1.568	1.603	1.667	1.648	1.585	1.649	1.629	1.621	2.26
47)		2-Chloronaphth...	1.172	1.200	1.240	1.230	1.182	1.225	1.226	1.211	2.17
48)		2-Nitroaniline	0.296	0.330	0.387	0.415	0.406	0.439	0.431	0.386	13.83
49)		Acenaphthylene	1.783	1.890	2.017	2.018	1.930	2.037	2.003	1.954	4.74
50)		Dimethylphthalate	1.429	1.464	1.532	1.524	1.477	1.588	1.518	1.504	3.48
51)		2,6-Dinitrotol...	0.261	0.289	0.318	0.325	0.317	0.342	0.330	0.312	8.87
52)	C	Acenaphthene	1.139	1.153	1.204	1.193	1.153	1.210	1.188	1.177	2.41
53)		3-Nitroaniline	0.231	0.276	0.332	0.354	0.346	0.377	0.368	0.326	16.40
54)	P	2,4-Dinitrophenol		0.118	0.163	0.187	0.189	0.213	0.212	0.180	19.75
55)		Dibenzofuran	1.880	1.907	1.969	1.936	1.865	1.974	1.915	1.921	2.16
56)	P	4-Nitrophenol		0.191	0.246	0.269	0.266	0.297	0.289	0.260	14.63
57)		2,4-Dinitrotol...	0.283	0.341	0.408	0.430	0.427	0.471	0.454	0.402	16.61
58)		Fluorene	1.449	1.458	1.548	1.533	1.487	1.590	1.540	1.515	3.41
59)		2,3,4,6-Tetrac...	0.355	0.367	0.398	0.397	0.390	0.418	0.405	0.390	5.55
60)		Diethylphthalate	1.349	1.387	1.463	1.480	1.444	1.578	1.483	1.455	5.07
61)		4-Chlorophenyl...	0.694	0.721	0.766	0.775	0.753	0.818	0.789	0.759	5.48
62)		4-Nitroaniline	0.166	0.215	0.273	0.313	0.322	0.353	0.346	0.284	24.77
63)		Azobenzene	1.364	1.505	1.650	1.666	1.610	1.722	1.639	1.594	7.60
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.089	0.114	0.127	0.126	0.136	0.135	0.121	14.65
66)	c	n-Nitrosodiphe...	0.578	0.606	0.636	0.644	0.614	0.643	0.634	0.622	3.87
67)		4-Bromophenyl-...	0.200	0.209	0.222	0.225	0.220	0.231	0.228	0.219	5.08
68)		Hexachlorobenzene	0.234	0.238	0.246	0.247	0.239	0.253	0.250	0.244	2.83
69)		Atrazine	0.151	0.164	0.171	0.169	0.164	0.163	0.161	0.163	4.09
70)	C	Pentachlorophenol	0.132	0.150	0.168	0.180	0.176	0.190	0.187	0.169	12.55
71)		Phenanthrene	1.081	1.102	1.122	1.126	1.083	1.145	1.119	1.111	2.14
72)		Anthracene	0.981	1.047	1.115	1.142	1.092	1.168	1.148	1.099	5.99
73)		Carbazole	0.870	0.952	1.005	1.039	1.001	1.061	1.035	0.995	6.54
74)		Di-n-butylphth...	0.892	0.992	1.099	1.196	1.180	1.297	1.212	1.124	12.48
75)	C	Fluoranthene	1.111	1.191	1.239	1.285	1.253	1.348	1.311	1.248	6.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.214	0.253	0.243	0.331	0.287	0.285	0.294	0.273	14.14
78)		Pyrene	1.339	1.317	1.445	1.432	1.388	1.458	1.411	1.399	3.82
79)	S	Terphenyl-d14	1.023	1.028	1.125	1.146	1.120	1.187	1.115	1.106	5.44
80)		Butylbenzylpht...	0.385	0.432	0.504	0.550	0.550	0.593	0.562	0.511	14.84
81)		Benzo(a)anthra...	1.253	1.301	1.389	1.390	1.351	1.420	1.386	1.356	4.35
82)		3,3'-Dichlorob...	0.350	0.407	0.448	0.476	0.458	0.488	0.470	0.442	10.92
83)		Chrysene	1.269	1.286	1.339	1.322	1.282	1.365	1.318	1.311	2.64
84)		Bis(2-ethylhex...	0.511	0.613	0.712	0.794	0.798	0.872	0.810	0.730	17.46
85)	c	Di-n-octyl pht...		1.040	1.185	1.335	1.340	1.475	1.370	1.291	11.95

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86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.322	1.387	1.477	1.519	1.482	1.559	1.546	1.470	5.89
88)		Benzo(b)fluora...	1.097	1.138	1.180	1.211	1.192	1.268	1.231	1.188	4.81
89)		Benzo(k)fluora...	1.096	1.139	1.243	1.291	1.211	1.272	1.255	1.215	5.94
90)	C	Benzo(a)pyrene	1.014	1.059	1.149	1.189	1.164	1.215	1.202	1.142	6.69
91)		Dibenzo(a,h)an...	1.081	1.153	1.221	1.266	1.245	1.312	1.308	1.226	6.85
92)		Benzo(g,h,i)pe...	1.126	1.161	1.219	1.234	1.187	1.247	1.227	1.200	3.67

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP072723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 01:48:25 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BP016393.D 5 =BP016394.D 10 =BP016395.D 20 =BP016396.D 40 =BP016397.D 50 =BP016398.D 60 =BP016399.D 80 =BP0164
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.517	0.525	0.536	0.459	0.431	0.449	0.430	0.478	9.69
3)		Pyridine		1.511	1.512	1.564	1.407	1.327	1.381	1.304	1.429	7.04
4)		n-Nitrosodimet...		0.577	0.594	0.598	0.524	0.490	0.511	0.478	0.539	9.32
5)	S	2-Fluorophenol		1.268	1.295	1.337	1.221	1.146	1.195	1.119	1.226	6.47
6)		Aniline		2.144	2.213	2.245	2.091	1.964	2.003	1.869	2.076	6.60
7)	S	Phenol-d6		1.726	1.792	1.834	1.690	1.584	1.638	1.498	1.680	6.99
8)		2-Chlorophenol		1.320	1.344	1.383	1.307	1.217	1.258	1.169	1.285	5.84
9)		Benzaldehyde		1.166	1.128	1.019	0.800	0.697	0.673	0.581	0.866	27.22
10)	C	Phenol		1.696	1.757	1.780	1.633	1.527	1.575	1.455	1.632	7.39
11)		bis(2-Chloroet...		1.436	1.442	1.431	1.318	1.231	1.267	1.161	1.326	8.51
12)		1,3-Dichlorobe...		1.467	1.464	1.473	1.375	1.294	1.337	1.247	1.380	6.63
13)	C	1,4-Dichlorobe...		1.493	1.481	1.496	1.395	1.315	1.357	1.261	1.400	6.70
14)		1,2-Dichlorobe...		1.438	1.433	1.442	1.355	1.267	1.303	1.196	1.348	7.16
15)		Benzyl Alcohol		1.148	1.212	1.224	1.170	1.097	1.145	1.040	1.148	5.57
16)		2,2'-oxybis(1-...		1.687	1.699	1.655	1.477	1.367	1.387	1.260	1.504	11.74
17)		2-Methylphenol		1.202	1.249	1.263	1.193	1.114	1.153	1.058	1.176	6.22
18)		Hexachloroethane		0.530	0.539	0.540	0.496	0.462	0.482	0.447	0.499	7.58
19)	P	n-Nitroso-di-n...	1.120	1.114	1.153	1.132	1.056	0.970	0.988	0.889	1.053	8.96
20)		3+4-Methylphenols		1.604	1.672	1.697	1.631	1.533	1.586	1.458	1.597	5.13
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.521	0.526	0.539	0.506	0.478	0.495	0.470	0.505	5.09
23)	S	Nitrobenzene-d5		0.345	0.365	0.386	0.362	0.345	0.358	0.341	0.357	4.32
24)		Nitrobenzene		0.366	0.376	0.393	0.368	0.351	0.366	0.348	0.367	4.13
25)		Isophorone		0.717	0.744	0.762	0.731	0.691	0.720	0.685	0.721	3.79
26)	C	2-Nitrophenol		0.103	0.114	0.138	0.153	0.155	0.164	0.163	0.141	17.23
27)		2,4-Dimethylph...		0.318	0.328	0.343	0.327	0.313	0.318	0.313	0.323	3.31
28)		bis(2-Chloroet...		0.459	0.459	0.467	0.443	0.419	0.434	0.412	0.442	4.79
29)	C	2,4-Dichloroph...		0.269	0.280	0.307	0.318	0.307	0.322	0.311	0.302	6.61
30)		1,2,4-Trichlor...		0.318	0.320	0.330	0.337	0.322	0.339	0.324	0.327	2.56
31)		Naphthalene		1.079	1.074	1.100	1.052	0.999	1.037	0.982	1.046	4.14
32)		Benzoic acid			0.128	0.168	0.197	0.202	0.220	0.229	0.191	19.57
33)		4-Chloroaniline		0.463	0.470	0.493	0.481	0.458	0.477	0.461	0.472	2.70
34)	C	Hexachlorobuta...		0.185	0.181	0.189	0.204	0.197	0.204	0.197	0.194	4.78
35)		Caprolactam		0.096	0.107	0.115	0.114	0.110	0.117	0.114	0.110	6.58
36)	C	4-Chloro-3-met...		0.313	0.329	0.352	0.346	0.330	0.347	0.332	0.336	4.12
37)		2-Methylnaphth...		0.768	0.773	0.781	0.776	0.735	0.763	0.723	0.760	2.91
38)		1-Methylnaphth...		0.724	0.725	0.734	0.726	0.691	0.714	0.673	0.713	3.11

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.578	0.586	0.604	0.631	0.606	0.639	0.610	0.608	3.66
41)	P	Hexachlorocycl...	0.248	0.264	0.291	0.333	0.330	0.334	0.337	0.305	12.22
42)	S	2,4,6-Tribromo...		0.232	0.256	0.318	0.307	0.330	0.323	0.294	13.74
43)	C	2,4,6-Trichlor...	0.324	0.350	0.394	0.417	0.404	0.427	0.413	0.390	9.85
44)		2,4,5-Trichlor...	0.403	0.434	0.476	0.501	0.489	0.514	0.495	0.473	8.44
45)	S	2-Fluorobiphenyl	1.465	1.474	1.485	1.418	1.317	1.361	1.245	1.395	6.51
46)		1,1'-Biphenyl	1.562	1.576	1.606	1.538	1.449	1.513	1.428	1.525	4.32
47)		2-Chloronaphth...	1.165	1.177	1.208	1.165	1.095	1.147	1.094	1.150	3.68
48)		2-Nitroaniline	0.275	0.302	0.350	0.338	0.324	0.344	0.337	0.324	8.31
49)		Acenaphthylene	1.880	1.956	2.038	1.935	1.825	1.914	1.810	1.908	4.13
50)		Dimethylphthalate	1.574	1.599	1.622	1.567	1.495	1.563	1.489	1.559	3.19
51)		2,6-Dinitrotol...	0.267	0.301	0.331	0.335	0.322	0.345	0.334	0.319	8.48
52)	C	Acenaphthene	1.136	1.167	1.192	1.151	1.082	1.136	1.080	1.135	3.67
53)		3-Nitroaniline	0.305	0.339	0.378	0.374	0.362	0.389	0.379	0.361	8.18
54)	P	2,4-Dinitrophenol		0.079	0.098	0.122	0.130	0.145	0.155	0.121	23.36
55)		Dibenzofuran	1.899	1.912	1.956	1.877	1.771	1.859	1.754	1.861	3.98
56)	P	4-Nitrophenol	0.215	0.261	0.298	0.296	0.288	0.312	0.308	0.283	12.12
57)		2,4-Dinitrotol...	0.305	0.363	0.430	0.450	0.435	0.468	0.462	0.416	14.45
58)		Fluorene	1.497	1.526	1.561	1.494	1.381	1.444	1.334	1.462	5.55
59)		2,3,4,6-Tetrac...	0.327	0.351	0.377	0.417	0.406	0.424	0.422	0.389	9.84
60)		Diethylphthalate	1.552	1.585	1.637	1.564	1.470	1.550	1.484	1.549	3.71
61)		4-Chlorophenyl...	0.734	0.742	0.761	0.765	0.721	0.749	0.693	0.738	3.36
62)		4-Nitroaniline	0.287	0.338	0.383	0.375	0.358	0.387	0.380	0.358	10.02
63)		Azobenzene	1.525	1.576	1.635	1.436	1.336	1.396	1.336	1.462	8.07
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.056	0.072	0.087	0.091	0.098	0.100	0.084	20.44
66)	c	n-Nitrosodiphe...	0.605	0.604	0.630	0.597	0.563	0.584	0.544	0.589	4.88
67)		4-Bromophenyl-...	0.199	0.196	0.208	0.224	0.215	0.224	0.216	0.212	5.37
68)		Hexachlorobenzene	0.224	0.220	0.226	0.250	0.241	0.251	0.240	0.236	5.39
69)		Atrazine	0.172	0.179	0.189	0.181	0.173	0.168	0.164	0.175	4.74
70)	C	Pentachlorophenol		0.129	0.150	0.172	0.171	0.182	0.177	0.163	12.36
71)		Phenanthrene	1.110	1.108	1.125	1.068	1.004	1.040	0.979	1.062	5.32
72)		Anthracene	1.071	1.091	1.138	1.088	1.027	1.067	0.994	1.068	4.38
73)		Carbazole	1.007	1.037	1.080	1.010	0.951	0.992	0.932	1.001	5.01
74)		Di-n-butylphth...	1.098	1.165	1.277	1.199	1.132	1.174	1.063	1.158	6.05
75)	C	Fluoranthene	1.191	1.241	1.310	1.288	1.222	1.273	1.187	1.245	3.84
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.407	0.409	0.292	0.381	0.316	0.299	0.323	0.347	14.61
78)		Pyrene	1.380	1.383	1.451	1.363	1.291	1.304	1.213	1.341	5.79
79)	S	Terphenyl-d14	1.054	1.046	1.071	0.997	0.888	0.866	0.705	0.947	14.17
80)		Butylbenzylpht...	0.462	0.504	0.583	0.544	0.527	0.543	0.524	0.527	7.12
81)		Benzo(a)anthra...	1.346	1.379	1.413	1.368	1.297	1.334	1.257	1.342	3.91
82)		3,3'-Dichlorob...	0.387	0.420	0.439	0.470	0.451	0.465	0.452	0.441	6.57
83)		Chrysene	1.319	1.332	1.364	1.296	1.220	1.265	1.176	1.281	5.15
84)		Bis(2-ethylhex...	0.712	0.789	0.880	0.811	0.779	0.806	0.759	0.791	6.53
85)	c	Di-n-octyl pht...	1.158	1.309	1.466	1.361	1.317	1.387	1.311	1.330	7.09

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86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.247	1.341	1.398	1.350	1.305	1.437	1.360	1.348	4.56
88)		Benzo(b)fluora...	1.126	1.123	1.209	1.215	1.160	1.174	1.108	1.159	3.67
89)		Benzo(k)fluora...	1.139	1.193	1.246	1.222	1.145	1.188	1.121	1.179	3.91
90)	C	Benzo(a)pyrene	1.063	1.096	1.168	1.167	1.111	1.155	1.101	1.123	3.64
91)		Dibenzo(a,h)an...	1.037	1.129	1.170	1.135	1.086	1.193	1.121	1.124	4.58
92)		Benzo(g,h,i)pe...	1.006	1.094	1.131	1.074	1.033	1.153	1.095	1.084	4.77

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_F Calibration Date/Time: 07/19/2023 13:01

Lab File ID: BF134355.D Init. Calib. Date(s): 06/26/2023 06/26/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:19 19:21

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.196	1.187		-0.8	
Benzaldehyde	0.886	0.819		-7.6	
Phenol-d6	1.470	1.450		-1.4	
Phenol	1.546	1.519		-1.7	20.0
bis(2-Chloroethyl)ether	1.138	1.085		-4.7	
2-Chlorophenol	1.214	1.220		0.5	
2-Methylphenol	1.087	1.057		-2.8	
2,2-oxybis(1-Chloropropane)	2.014	1.599		-20.6	
Acetophenone	0.455	0.488		7.3	
3+4-Methylphenols	1.319	1.374		4.2	
n-Nitroso-di-n-propylamine	0.932	0.921	0.050	-1.2	
Nitrobenzene-d5	0.371	0.397		7.0	
Hexachloroethane	0.485	0.503		3.7	
Nitrobenzene	0.375	0.383		2.1	
Isophorone	0.674	0.673		-0.1	
2-Nitrophenol	0.180	0.188		4.4	20.0
2,4-Dimethylphenol	0.285	0.286		0.4	
bis(2-Chloroethoxy)methane	0.390	0.378		-3.1	
2,4-Dichlorophenol	0.282	0.287		1.8	20.0
Naphthalene	0.966	0.982		1.7	
4-Chloroaniline	0.413	0.420		1.7	
Hexachlorobutadiene	0.184	0.210		14.1	20.0
Caprolactam	0.093	0.086		-7.5	
4-Chloro-3-methylphenol	0.317	0.331		4.4	20.0
2-Methylnaphthalene	0.683	0.698		2.2	
Hexachlorocyclopentadiene	0.281	0.306	0.050	8.9	
2,4,6-Trichlorophenol	0.403	0.404		0.2	20.0
2-Fluorobiphenyl	1.376	1.487		8.1	
2,4,5-Trichlorophenol	0.474	0.470		-0.8	
1,1-Biphenyl	1.604	1.636		2.0	
2-Chloronaphthalene	1.174	1.179		0.4	
2-Nitroaniline	0.428	0.427		-0.2	
Dimethylphthalate	1.452	1.461		0.6	
Acenaphthylene	2.005	1.994		-0.5	
2,6-Dinitrotoluene	0.313	0.320		2.2	
3-Nitroaniline	0.375	0.356		-5.1	
Acenaphthene	1.164	1.184		1.7	20.0
2,4-Dinitrophenol	0.162	0.173	0.050	6.8	
4-Nitrophenol	0.262	0.212	0.050	-19.1	
Dibenzofuran	1.818	1.814		-0.2	
2,4-Dinitrotoluene	0.413	0.427		3.4	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_F Calibration Date/Time: 07/19/2023 13:01

Lab File ID: BF134355.D Init. Calib. Date(s): 06/26/2023 06/26/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:19 19:21

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.513	1.539		1.7	
4-Chlorophenyl-phenylether	0.682	0.714		4.7	
Fluorene	1.415	1.449		2.4	
4-Nitroaniline	0.378	0.363		-4.0	
4,6-Dinitro-2-methylphenol	0.109	0.119		9.2	
n-Nitrosodiphenylamine	0.639	0.641		0.3	20.0
2,4,6-Tribromophenol	0.251	0.288		14.7	
4-Bromophenyl-phenylether	0.213	0.228		7.0	
Hexachlorobenzene	0.226	0.243		7.5	
Atrazine	0.177	0.181		2.3	
Pentachlorophenol	0.135	0.114		-15.6	20.0
Phenanthrene	1.007	1.017		1.0	
Anthracene	1.047	1.055		0.8	
Carbazole	0.959	0.965		0.6	
Di-n-butylphthalate	1.140	1.193		4.6	
Fluoranthene	1.088	1.140		4.8	20.0
Pyrene	1.861	1.720		-7.6	
Terphenyl-d14	1.243	1.199		-3.5	
Butylbenzylphthalate	0.698	0.688		-1.4	
3,3-Dichlorobenzidine	0.439	0.437		-0.5	
Benzo(a)anthracene	1.387	1.378		-0.6	
Chrysene	1.343	1.309		-2.5	
Bis(2-ethylhexyl)phthalate	0.802	0.876		9.2	
Di-n-octyl phthalate	1.179	1.282		8.7	20.0
Benzo(b)fluoranthene	1.176	1.226		4.3	
Benzo(k)fluoranthene	1.197	1.181		-1.3	
Benzo(a)pyrene	1.137	1.125		-1.1	20.0
Indeno(1,2,3-cd)pyrene	1.388	1.313		-5.4	
Dibenzo(a,h)anthracene	1.134	1.079		-4.8	
Benzo(g,h,i)perylene	1.169	1.060		-9.3	
1,2,4,5-Tetrachlorobenzene	0.593	0.631		6.4	
1,4-Dioxane	0.493	0.511		3.7	20.0
2,3,4,6-Tetrachlorophenol	0.374	0.367		-1.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_F Calibration Date/Time: 07/28/2023 16:29

Lab File ID: BF134518.D Init. Calib. Date(s): 07/24/2023 07/24/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:46 17:44

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.211	1.173		-3.1	
Benzaldehyde	0.794	0.729		-8.2	
Phenol-d6	1.483	1.415		-4.6	
Phenol	1.543	1.479		-4.1	20.0
bis(2-Chloroethyl)ether	1.077	1.099		2.0	
2-Chlorophenol	1.226	1.159		-5.5	
2-Methylphenol	1.094	1.036		-5.3	
2,2-oxybis(1-Chloropropane)	1.586	1.740		9.7	
Acetophenone	0.497	0.444		-10.7	
3+4-Methylphenols	1.400	1.315		-6.1	
n-Nitroso-di-n-propylamine	0.923	0.934	0.050	1.2	
Nitrobenzene-d5	0.395	0.352		-10.9	
Hexachloroethane	0.521	0.471		-9.6	
Nitrobenzene	0.393	0.357		-9.2	
Isophorone	0.659	0.653		-0.9	
2-Nitrophenol	0.181	0.174		-3.9	20.0
2,4-Dimethylphenol	0.285	0.269		-5.6	
bis(2-Chloroethoxy)methane	0.367	0.368		0.3	
2,4-Dichlorophenol	0.285	0.268		-6.0	20.0
Naphthalene	0.995	0.914		-8.1	
4-Chloroaniline	0.411	0.396		-3.7	
Hexachlorobutadiene	0.206	0.180		-12.6	20.0
Caprolactam	0.087	0.092		5.7	
4-Chloro-3-methylphenol	0.329	0.315		-4.3	20.0
2-Methylnaphthalene	0.692	0.656		-5.2	
Hexachlorocyclopentadiene	0.152	0.159	0.050	4.6	
2,4,6-Trichlorophenol	0.407	0.369		-9.3	20.0
2-Fluorobiphenyl	1.523	1.311		-14.0	
2,4,5-Trichlorophenol	0.474	0.424		-10.5	
1,1-Biphenyl	1.648	1.449		-12.1	
2-Chloronaphthalene	1.215	1.061		-12.7	
2-Nitroaniline	0.438	0.391		-10.7	
Dimethylphthalate	1.483	1.367		-7.8	
Acenaphthylene	2.053	1.793		-12.7	
2,6-Dinitrotoluene	0.325	0.300		-7.7	
3-Nitroaniline	0.373	0.344		-7.8	
Acenaphthene	1.213	1.072		-11.6	20.0
2,4-Dinitrophenol	0.143	0.135	0.050	-5.6	
4-Nitrophenol	0.199	0.196	0.050	-1.5	
Dibenzofuran	1.867	1.651		-11.6	
2,4-Dinitrotoluene	0.437	0.392		-10.3	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_F Calibration Date/Time: 07/28/2023 16:29

Lab File ID: BF134518.D Init. Calib. Date(s): 07/24/2023 07/24/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:46 17:44

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.535	1.478		-3.7	
4-Chlorophenyl-phenylether	0.719	0.666		-7.4	
Fluorene	1.506	1.366		-9.3	
4-Nitroaniline	0.383	0.327		-14.6	
4,6-Dinitro-2-methylphenol	0.115	0.108		-6.1	
n-Nitrosodiphenylamine	0.636	0.579		-9.0	20.0
2,4,6-Tribromophenol	0.284	0.259		-8.8	
4-Bromophenyl-phenylether	0.219	0.203		-7.3	
Hexachlorobenzene	0.247	0.222		-10.1	
Atrazine	0.177	0.164		-7.3	
Pentachlorophenol	0.104	0.105		1.0	20.0
Phenanthrene	1.045	0.915		-12.4	
Anthracene	1.079	0.945		-12.4	
Carbazole	1.016	0.881		-13.3	
Di-n-butylphthalate	1.166	1.125		-3.5	
Fluoranthene	1.218	1.018		-16.4	20.0
Pyrene	1.590	1.553		-2.3	
Terphenyl-d14	1.146	1.106		-3.5	
Butylbenzylphthalate	0.637	0.659		3.5	
3,3-Dichlorobenzidine	0.442	0.368		-16.7	
Benzo(a)anthracene	1.395	1.232		-11.7	
Chrysene	1.335	1.187		-11.1	
Bis(2-ethylhexyl)phthalate	0.774	0.863		11.5	
Di-n-octyl phthalate	1.075	1.220		13.5	20.0
Benzo(b)fluoranthene	1.251	1.180		-5.7	
Benzo(k)fluoranthene	1.230	1.121		-8.9	
Benzo(a)pyrene	1.157	1.032		-10.8	20.0
Indeno(1,2,3-cd)pyrene	1.307	1.156		-11.6	
Dibenzo(a,h)anthracene	1.055	0.957		-9.3	
Benzo(g,h,i)perylene	1.083	0.966		-10.8	
1,2,4,5-Tetrachlorobenzene	0.634	0.552		-12.9	
1,4-Dioxane	0.513	0.415		-19.1	20.0
2,3,4,6-Tetrachlorophenol	0.364	0.351		-3.6	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_F Calibration Date/Time: 08/01/2023 14:27

Lab File ID: BF134547.D Init. Calib. Date(s): 08/01/2023 08/01/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 07:51 11:47

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.316	1.223		-7.1	
Benzaldehyde	0.917	0.752		-18.0	
Phenol-d6	1.682	1.592		-5.4	
Phenol	1.657	1.566		-5.5	20.0
bis(2-Chloroethyl)ether	1.317	1.262		-4.2	
2-Chlorophenol	1.327	1.292		-2.6	
2-Methylphenol	1.173	1.131		-3.6	
2,2-oxybis(1-Chloropropane)	2.063	1.983		-3.9	
Acetophenone	0.462	0.421		-8.9	
3+4-Methylphenols	1.414	1.345		-4.9	
n-Nitroso-di-n-propylamine	1.007	0.939	0.050	-6.8	
Nitrobenzene-d5	0.320	0.333		4.1	
Hexachloroethane	0.483	0.477		-1.2	
Nitrobenzene	0.346	0.350		1.2	
Isophorone	0.698	0.655		-6.2	
2-Nitrophenol	0.122	0.147		20.5	20.0
2,4-Dimethylphenol	0.311	0.295		-5.1	
bis(2-Chloroethoxy)methane	0.418	0.397		-5.0	
2,4-Dichlorophenol	0.283	0.270		-4.6	20.0
Naphthalene	1.005	0.928		-7.7	
4-Chloroaniline	0.448	0.409		-8.7	
Hexachlorobutadiene	0.174	0.165		-5.2	20.0
Caprolactam	0.091	0.087		-4.4	
4-Chloro-3-methylphenol	0.299	0.284		-5.0	20.0
2-Methylnaphthalene	0.666	0.621		-6.8	
Hexachlorocyclopentadiene	0.283	0.291	0.050	2.8	
2,4,6-Trichlorophenol	0.381	0.373		-2.1	20.0
2-Fluorobiphenyl	1.203	1.132		-5.9	
2,4,5-Trichlorophenol	0.435	0.430		-1.1	
1,1-Biphenyl	1.555	1.466		-5.7	
2-Chloronaphthalene	1.165	1.093		-6.2	
2-Nitroaniline	0.316	0.362		14.6	
Dimethylphthalate	1.363	1.295		-5.0	
Acenaphthylene	1.832	1.718		-6.2	
2,6-Dinitrotoluene	0.248	0.279		12.5	
3-Nitroaniline	0.304	0.331		8.9	
Acenaphthene	1.187	1.129		-4.9	20.0
2,4-Dinitrophenol	0.079	0.089	0.050	12.7	
4-Nitrophenol	0.248	0.250	0.050	0.8	
Dibenzofuran	1.690	1.581		-6.4	
2,4-Dinitrotoluene	0.292	0.345		18.2	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_F Calibration Date/Time: 08/01/2023 14:27

Lab File ID: BF134547.D Init. Calib. Date(s): 08/01/2023 08/01/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 07:51 11:47

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.292	1.240		-4.0	
4-Chlorophenyl-phenylether	0.605	0.560		-7.4	
Fluorene	1.231	1.118		-9.2	
4-Nitroaniline	0.298	0.315		5.7	
4,6-Dinitro-2-methylphenol	0.069	0.076		10.1	
n-Nitrosodiphenylamine	0.637	0.604		-5.2	20.0
2,4,6-Tribromophenol	0.204	0.206		1.0	
4-Bromophenyl-phenylether	0.219	0.210		-4.1	
Hexachlorobenzene	0.231	0.219		-5.2	
Atrazine	0.172	0.170		-1.2	
Pentachlorophenol	0.143	0.152		6.3	20.0
Phenanthrene	1.062	0.995		-6.3	
Anthracene	1.085	1.004		-7.5	
Carbazole	0.969	0.896		-7.5	
Di-n-butylphthalate	1.029	1.012		-1.7	
Fluoranthene	1.122	1.038		-7.5	20.0
Pyrene	1.731	1.672		-3.4	
Terphenyl-d14	1.135	1.091		-3.9	
Butylbenzylphthalate	0.585	0.625		6.8	
3,3-Dichlorobenzidine	0.415	0.407		-1.9	
Benzo(a)anthracene	1.430	1.385		-3.1	
Chrysene	1.393	1.339		-3.9	
Bis(2-ethylhexyl)phthalate	0.689	0.716		3.9	
Di-n-octyl phthalate	1.047	1.095		4.6	20.0
Benzo(b)fluoranthene	1.220	1.171		-4.0	
Benzo(k)fluoranthene	1.215	1.195		-1.6	
Benzo(a)pyrene	1.137	1.101		-3.2	20.0
Indeno(1,2,3-cd)pyrene	1.176	1.164		-1.0	
Dibenzo(a,h)anthracene	0.951	0.962		1.2	
Benzo(g,h,i)perylene	0.970	0.963		-0.7	
1,2,4,5-Tetrachlorobenzene	0.582	0.543		-6.7	
1,4-Dioxane	0.605	0.560		-7.4	20.0
2,3,4,6-Tetrachlorophenol	0.344	0.338		-1.7	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_G Calibration Date/Time: 08/02/2023 08:34

Lab File ID: BG058569.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:21 14:09

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.309	1.312		0.2	
Benzaldehyde	0.989	0.906		-8.4	
Phenol-d6	1.821	1.850		1.6	
Phenol	1.779	1.803		1.3	20.0
bis(2-Chloroethyl)ether	1.402	1.449		3.4	
2-Chlorophenol	1.284	1.306		1.7	
2-Methylphenol	1.300	1.303		0.2	
2,2-oxybis(1-Chloropropane)	2.278	2.289		0.5	
Acetophenone	0.536	0.527		-1.7	
3+4-Methylphenols	1.759	1.842		4.7	
n-Nitroso-di-n-propylamine	1.176	1.200	0.050	2.0	
Nitrobenzene-d5	0.407	0.396		-2.7	
Hexachloroethane	0.500	0.492		-1.6	
Nitrobenzene	0.414	0.399		-3.6	
Isophorone	0.841	0.816		-3.0	
2-Nitrophenol	0.180	0.173		-3.9	20.0
2,4-Dimethylphenol	0.299	0.296		-1.0	
bis(2-Chloroethoxy)methane	0.458	0.449		-2.0	
2,4-Dichlorophenol	0.310	0.301		-2.9	20.0
Naphthalene	1.054	1.016		-3.6	
4-Chloroaniline	0.445	0.453		1.8	
Hexachlorobutadiene	0.230	0.216		-6.1	20.0
Caprolactam	0.115	0.125		8.7	
4-Chloro-3-methylphenol	0.384	0.371		-3.4	20.0
2-Methylnaphthalene	0.754	0.721		-4.4	
Hexachlorocyclopentadiene	0.236	0.213	0.050	-9.7	
2,4,6-Trichlorophenol	0.422	0.402		-4.7	20.0
2-Fluorobiphenyl	1.335	1.270		-4.9	
2,4,5-Trichlorophenol	0.497	0.470		-5.4	
1,1-Biphenyl	1.374	1.304		-5.1	
2-Chloronaphthalene	1.071	1.014		-5.3	
2-Nitroaniline	0.409	0.407		-0.5	
Dimethylphthalate	1.502	1.489		-0.9	
Acenaphthylene	1.793	1.719		-4.1	
2,6-Dinitrotoluene	0.330	0.326		-1.2	
3-Nitroaniline	0.330	0.355		7.6	
Acenaphthene	1.036	0.997		-3.8	20.0
2,4-Dinitrophenol	0.150	0.171	0.050	14.0	
4-Nitrophenol	0.222	0.260	0.050	17.1	
Dibenzofuran	1.780	1.720		-3.4	
2,4-Dinitrotoluene	0.457	0.484		5.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_G Calibration Date/Time: 08/02/2023 08:34

Lab File ID: BG058569.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:21 14:09

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.530	1.606		5.0	
4-Chlorophenyl-phenylether	0.788	0.761		-3.4	
Fluorene	1.414	1.385		-2.1	
4-Nitroaniline	0.312	0.381		22.1	
4,6-Dinitro-2-methylphenol	0.110	0.115		4.5	
n-Nitrosodiphenylamine	0.521	0.476		-8.6	20.0
2,4,6-Tribromophenol	0.328	0.327		-0.3	
4-Bromophenyl-phenylether	0.227	0.203		-10.6	
Hexachlorobenzene	0.240	0.214		-10.8	
Atrazine	0.176	0.185		5.1	
Pentachlorophenol	0.145	0.148		2.1	20.0
Phenanthrene	0.948	0.902		-4.9	
Anthracene	0.973	0.929		-4.5	
Carbazole	0.858	0.897		4.5	
Di-n-butylphthalate	1.075	1.187		10.4	
Fluoranthene	1.139	1.215		6.7	20.0
Pyrene	1.361	1.313		-3.5	
Terphenyl-d14	1.064	1.021		-4.0	
Butylbenzylphthalate	0.559	0.555		-0.7	
3,3-Dichlorobenzidine	0.465	0.475		2.2	
Benzo(a)anthracene	1.376	1.326		-3.6	
Chrysene	1.320	1.268		-3.9	
Bis(2-ethylhexyl)phthalate	0.817	0.810		-0.9	
Di-n-octyl phthalate	1.436	1.438		0.1	20.0
Benzo(b)fluoranthene	1.085	1.055		-2.8	
Benzo(k)fluoranthene	1.090	1.068		-2.0	
Benzo(a)pyrene	1.065	1.043		-2.1	20.0
Indeno(1,2,3-cd)pyrene	1.331	1.286		-3.4	
Dibenzo(a,h)anthracene	1.100	1.065		-3.2	
Benzo(g,h,i)perylene	1.103	1.070		-3.0	
1,2,4,5-Tetrachlorobenzene	0.614	0.577		-6.0	
1,4-Dioxane	0.634	0.617		-2.7	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.411		-3.1	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_M Calibration Date/Time: 07/28/2023 17:11

Lab File ID: BM041169.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:14 14:38

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.338	1.473		10.1	
Benzaldehyde	0.915	0.956		4.5	
Phenol-d6	1.735	1.969		13.5	
Phenol	1.675	1.893		13.0	20.0
bis(2-Chloroethyl)ether	1.356	1.497		10.4	
2-Chlorophenol	1.306	1.465		12.2	
2-Methylphenol	1.145	1.312		14.6	
2,2-oxybis(1-Chloropropane)	1.807	2.013		11.4	
Acetophenone	0.530	0.592		11.7	
3+4-Methylphenols	1.530	1.775		16.0	
n-Nitroso-di-n-propylamine	1.054	1.222	0.050	15.9	
Nitrobenzene-d5	0.430	0.486		13.0	
Hexachloroethane	0.532	0.597		12.2	
Nitrobenzene	0.435	0.489		12.4	
Isophorone	0.730	0.825		13.0	
2-Nitrophenol	0.170	0.197		15.9	20.0
2,4-Dimethylphenol	0.299	0.342		14.4	
bis(2-Chloroethoxy)methane	0.457	0.513		12.3	
2,4-Dichlorophenol	0.302	0.342		13.2	20.0
Naphthalene	1.085	1.202		10.8	
4-Chloroaniline	0.434	0.501		15.4	
Hexachlorobutadiene	0.200	0.217		8.5	20.0
Caprolactam	0.087	0.100		14.9	
4-Chloro-3-methylphenol	0.318	0.363		14.2	20.0
2-Methylnaphthalene	0.732	0.823		12.4	
Hexachlorocyclopentadiene	0.344	0.375	0.050	9.0	
2,4,6-Trichlorophenol	0.416	0.471		13.2	20.0
2-Fluorobiphenyl	1.583	1.760		11.2	
2,4,5-Trichlorophenol	0.482	0.545		13.1	
1,1-Biphenyl	1.621	1.805		11.4	
2-Chloronaphthalene	1.211	1.351		11.6	
2-Nitroaniline	0.386	0.456		18.1	
Dimethylphthalate	1.504	1.658		10.2	
Acenaphthylene	1.954	2.210		13.1	
2,6-Dinitrotoluene	0.312	0.357		14.4	
3-Nitroaniline	0.326	0.388		19.0	
Acenaphthene	1.177	1.313		11.6	20.0
2,4-Dinitrophenol	0.180	0.200	0.050	11.1	
4-Nitrophenol	0.260	0.298	0.050	14.6	
Dibenzofuran	1.921	2.131		10.9	
2,4-Dinitrotoluene	0.402	0.472		17.4	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_M Calibration Date/Time: 07/28/2023 17:11

Lab File ID: BM041169.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:14 14:38

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.455	1.612		10.8	
4-Chlorophenyl-phenylether	0.759	0.848		11.7	
Fluorene	1.515	1.702		12.3	
4-Nitroaniline	0.284	0.351		23.6	
4,6-Dinitro-2-methylphenol	0.121	0.136		12.4	
n-Nitrosodiphenylamine	0.622	0.705		13.3	20.0
2,4,6-Tribromophenol	0.283	0.325		14.8	
4-Bromophenyl-phenylether	0.219	0.246		12.3	
Hexachlorobenzene	0.244	0.270		10.7	
Atrazine	0.163	0.193		18.4	
Pentachlorophenol	0.169	0.198		17.2	20.0
Phenanthrene	1.111	1.236		11.3	
Anthracene	1.099	1.247		13.5	
Carbazole	0.995	1.132		13.8	
Di-n-butylphthalate	1.124	1.267		12.7	
Fluoranthene	1.248	1.402		12.3	20.0
Pyrene	1.399	1.564		11.8	
Terphenyl-d14	1.106	1.248		12.8	
Butylbenzylphthalate	0.511	0.585		14.5	
3,3-Dichlorobenzidine	0.442	0.511		15.6	
Benzo(a)anthracene	1.356	1.530		12.8	
Chrysene	1.311	1.463		11.6	
Bis(2-ethylhexyl)phthalate	0.730	0.825		13.0	
Di-n-octyl phthalate	1.291	1.384		7.2	20.0
Benzo(b)fluoranthene	1.188	1.346		13.3	
Benzo(k)fluoranthene	1.215	1.349		11.0	
Benzo(a)pyrene	1.142	1.294		13.3	20.0
Indeno(1,2,3-cd)pyrene	1.470	1.676		13.9	
Dibenzo(a,h)anthracene	1.226	1.393		13.6	
Benzo(g,h,i)perylene	1.200	1.367		13.9	
1,2,4,5-Tetrachlorobenzene	0.649	0.711		9.6	
1,4-Dioxane	0.572	0.618		8.0	20.0
2,3,4,6-Tetrachlorophenol	0.390	0.439		12.6	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_P Calibration Date/Time: 07/28/2023 08:03

Lab File ID: BP016411.D Init. Calib. Date(s): 07/27/2023 07/27/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:03 15:03

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.226	1.299		6.0	
Benzaldehyde	0.866	0.889		2.7	
Phenol-d6	1.680	1.786		6.3	
Phenol	1.632	1.737		6.4	20.0
bis(2-Chloroethyl)ether	1.326	1.399		5.5	
2-Chlorophenol	1.285	1.350		5.1	
2-Methylphenol	1.176	1.244		5.8	
2,2-oxybis(1-Chloropropane)	1.504	1.643		9.2	
Acetophenone	0.505	0.518		2.6	
3+4-Methylphenols	1.597	1.691		5.9	
n-Nitroso-di-n-propylamine	1.053	1.118	0.050	6.2	
Nitrobenzene-d5	0.357	0.376		5.3	
Hexachloroethane	0.499	0.519		4.0	
Nitrobenzene	0.367	0.388		5.7	
Isophorone	0.721	0.750		4.0	
2-Nitrophenol	0.141	0.153		8.5	20.0
2,4-Dimethylphenol	0.323	0.330		2.2	
bis(2-Chloroethoxy)methane	0.442	0.460		4.1	
2,4-Dichlorophenol	0.302	0.308		2.0	20.0
Naphthalene	1.046	1.055		0.9	
4-Chloroaniline	0.472	0.480		1.7	
Hexachlorobutadiene	0.194	0.182		-6.2	20.0
Caprolactam	0.110	0.112		1.8	
4-Chloro-3-methylphenol	0.336	0.346		3.0	20.0
2-Methylnaphthalene	0.760	0.762		0.3	
Hexachlorocyclopentadiene	0.305	0.309	0.050	1.3	
2,4,6-Trichlorophenol	0.390	0.402		3.1	20.0
2-Fluorobiphenyl	1.395	1.387		-0.6	
2,4,5-Trichlorophenol	0.473	0.484		2.3	
1,1-Biphenyl	1.525	1.551		1.7	
2-Chloronaphthalene	1.150	1.171		1.8	
2-Nitroaniline	0.324	0.366		13.0	
Dimethylphthalate	1.559	1.562		0.2	
Acenaphthylene	1.908	1.958		2.6	
2,6-Dinitrotoluene	0.319	0.335		5.0	
3-Nitroaniline	0.361	0.387		7.2	
Acenaphthene	1.135	1.159		2.1	20.0
2,4-Dinitrophenol	0.121	0.124	0.050	2.5	
4-Nitrophenol	0.283	0.301	0.050	6.4	
Dibenzofuran	1.861	1.866		0.3	
2,4-Dinitrotoluene	0.416	0.449		7.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: 03645 SAS No.: 03645 SDG No.: 03645

Instrument ID: BNA_P Calibration Date/Time: 07/28/2023 08:03

Lab File ID: BP016411.D Init. Calib. Date(s): 07/27/2023 07/27/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:03 15:03

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.549	1.566		1.1	
4-Chlorophenyl-phenylether	0.738	0.714		-3.3	
Fluorene	1.462	1.453		-0.6	
4-Nitroaniline	0.358	0.379		5.9	
4,6-Dinitro-2-methylphenol	0.084	0.092		9.5	
n-Nitrosodiphenylamine	0.589	0.616		4.6	20.0
2,4,6-Tribromophenol	0.294	0.259		-11.9	
4-Bromophenyl-phenylether	0.212	0.211		-0.5	
Hexachlorobenzene	0.236	0.226		-4.2	
Atrazine	0.175	0.179		2.3	
Pentachlorophenol	0.163	0.159		-2.5	20.0
Phenanthrene	1.062	1.076		1.3	
Anthracene	1.068	1.096		2.6	
Carbazole	1.001	1.026		2.5	
Di-n-butylphthalate	1.158	1.238		6.9	
Fluoranthene	1.245	1.231		-1.1	20.0
Pyrene	1.341	1.487		10.9	
Terphenyl-d14	0.947	1.013		7.0	
Butylbenzylphthalate	0.527	0.619		17.5	
3,3-Dichlorobenzidine	0.441	0.458		3.9	
Benzo(a)anthracene	1.342	1.394		3.9	
Chrysene	1.281	1.312		2.4	
Bis(2-ethylhexyl)phthalate	0.791	0.901		13.9	
Di-n-octyl phthalate	1.330	1.443		8.5	20.0
Benzo(b)fluoranthene	1.159	1.283		10.7	
Benzo(k)fluoranthene	1.179	1.279		8.5	
Benzo(a)pyrene	1.123	1.187		5.7	20.0
Indeno(1,2,3-cd)pyrene	1.348	1.237		-8.2	
Dibenzo(a,h)anthracene	1.124	1.048		-6.8	
Benzo(g,h,i)perylene	1.084	0.980		-9.6	
1,2,4,5-Tetrachlorobenzene	0.608	0.595		-2.1	
1,4-Dioxane	0.478	0.507		6.1	20.0
2,3,4,6-Tetrachlorophenol	0.389	0.380		-2.3	

All other compounds must meet a minimum RRF of 0.010.