

Report of Analysis

Client:	PSEG	Date Collected:	03/25/25
Project:	Paterson Laydown	Date Received:	03/25/25
Client Sample ID:	PAT-1-032525	SDG No.:	Q1642
Lab Sample ID:	Q1642-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.2
Sample Wt/Vol:	50.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142148.D	2	03/26/25 08:50	03/28/25 02:36	PB167321

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.45	U	0.21	0.45	mg/Kg
108-95-2	Phenol	0.23	U	0.030	0.23	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.23	U	0.033	0.23	mg/Kg
95-57-8	2-Chlorophenol	0.23	U	0.034	0.23	mg/Kg
95-48-7	2-Methylphenol	0.23	U	0.041	0.23	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.23	U	0.052	0.23	mg/Kg
98-86-2	Acetophenone	0.23	U	0.041	0.23	mg/Kg
65794-96-9	3+4-Methylphenols	0.45	U	0.057	0.45	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.11	U	0.065	0.11	mg/Kg
67-72-1	Hexachloroethane	0.23	U	0.024	0.23	mg/Kg
98-95-3	Nitrobenzene	0.23	U	0.025	0.23	mg/Kg
78-59-1	Isophorone	0.23	U	0.045	0.23	mg/Kg
88-75-5	2-Nitrophenol	0.23	U	0.080	0.23	mg/Kg
105-67-9	2,4-Dimethylphenol	0.23	U	0.089	0.23	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.23	U	0.042	0.23	mg/Kg
120-83-2	2,4-Dichlorophenol	0.23	U	0.039	0.23	mg/Kg
91-20-3	Naphthalene	0.25		0.031	0.23	mg/Kg
106-47-8	4-Chloroaniline	0.23	U	0.049	0.23	mg/Kg
87-68-3	Hexachlorobutadiene	0.23	U	0.035	0.23	mg/Kg
105-60-2	Caprolactam	0.45	U	0.072	0.45	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.23	U	0.039	0.23	mg/Kg
91-57-6	2-Methylnaphthalene	0.23		0.035	0.23	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.45	U	0.16	0.45	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.23	U	0.027	0.23	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.23	U	0.040	0.23	mg/Kg
92-52-4	1,1-Biphenyl	0.23	U	0.030	0.23	mg/Kg
91-58-7	2-Chloronaphthalene	0.23	U	0.031	0.23	mg/Kg
88-74-4	2-Nitroaniline	0.23	U	0.066	0.23	mg/Kg
131-11-3	Dimethylphthalate	0.23	U	0.037	0.23	mg/Kg

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Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	1.0	GPC Cleanup : N PH :
Prep Method :	SW3541		

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208-96-8	Acenaphthylene	0.23	U	0.040	0.23	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.23	U	0.046	0.23	mg/Kg
99-09-2	3-Nitroaniline	0.23	U	0.063	0.23	mg/Kg
83-32-9	Acenaphthene	0.61		0.029	0.23	mg/Kg
51-28-5	2,4-Dinitrophenol	0.45	U	0.31	0.45	mg/Kg
100-02-7	4-Nitrophenol	0.45	U	0.15	0.45	mg/Kg
132-64-9	Dibenzofuran	0.34		0.031	0.23	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.23	U	0.069	0.23	mg/Kg
84-66-2	Diethylphthalate	0.23	U	0.039	0.23	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.23	U	0.037	0.23	mg/Kg
86-73-7	Fluorene	0.56		0.035	0.23	mg/Kg
100-01-6	4-Nitroaniline	0.23	U	0.088	0.23	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.45	U	0.14	0.45	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.23	U	0.045	0.23	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.23	U	0.038	0.23	mg/Kg
118-74-1	Hexachlorobenzene	0.23	U	0.035	0.23	mg/Kg
1912-24-9	Atrazine	0.23	U	0.047	0.23	mg/Kg
87-86-5	Pentachlorophenol	0.45	U	0.071	0.45	mg/Kg
85-01-8	Phenanthrene	4.90	E	0.029	0.23	mg/Kg
120-12-7	Anthracene	1.20		0.046	0.23	mg/Kg
86-74-8	Carbazole	0.62		0.043	0.23	mg/Kg
84-74-2	Di-n-butylphthalate	0.23	U	0.066	0.23	mg/Kg
206-44-0	Fluoranthene	6.30	E	0.041	0.23	mg/Kg
129-00-0	Pyrene	4.30	E	0.050	0.23	mg/Kg
85-68-7	Butylbenzylphthalate	0.23	U	0.098	0.23	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.45	U	0.050	0.45	mg/Kg
56-55-3	Benzo(a)anthracene	2.60		0.032	0.23	mg/Kg
218-01-9	Chrysene	2.20		0.027	0.23	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.44		0.081	0.23	mg/Kg
117-84-0	Di-n-octyl phthalate	0.45	U	0.12	0.45	mg/Kg
205-99-2	Benzo(b)fluoranthene	2.60		0.026	0.23	mg/Kg

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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
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207-08-9	Benzo(k)fluoranthene	0.91		0.031	0.23	mg/Kg
50-32-8	Benzo(a)pyrene	2.10		0.041	0.23	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.00		0.040	0.23	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.29		0.038	0.23	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.20		0.035	0.23	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.23	U	0.035	0.23	mg/Kg
123-91-1	1,4-Dioxane	0.23	U	0.062	0.23	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.23	U	0.038	0.23	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	82.9		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	79.8		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.6		18 - 107	61%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.2		20 - 109	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	71.7		10 - 116	48%	SPK: 150
1718-51-0	Terphenyl-d14	45.1		10 - 105	45%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	156000	6.869
1146-65-2	Naphthalene-d8	546000	8.151
15067-26-2	Acenaphthene-d10	249000	9.91
1517-22-2	Phenanthrene-d10	359000	11.398
1719-03-5	Chrysene-d12	297000	14.039
1520-96-3	Perylene-d12	237000	15.515

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	600	J	2.13	ug/Kg
015869-94-0	Octane, 3,6-dimethyl-	180	J	8.57	ug/Kg
90-12-0	1-Methylnaphthalene	290	J	8.96	ug/Kg
003891-98-3	Dodecane, 2,6,10-trimethyl-	380	J	9.17	ug/Kg
1000342-70-4	1-Octadecanesulphonyl chloride	320	J	9.31	ug/Kg
000939-27-5	Naphthalene, 2-ethyl-	230	J	9.43	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	900	J	9.49	ug/Kg

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CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000581-40-8	Naphthalene, 2,3-dimethyl-	1000	J		9.57	ug/Kg
000581-42-0	Naphthalene, 2,6-dimethyl-	500	J		9.59	ug/Kg
000629-92-5	Nonadecane	590	J		9.63	ug/Kg
000575-37-1	Naphthalene, 1,7-dimethyl-	380	J		9.69	ug/Kg
001127-76-0	Naphthalene, 1-ethyl-	270	J		9.77	ug/Kg
002131-42-2	Naphthalene, 1,4,6-trimethyl-	430	J		10.0	ug/Kg
000829-26-5	Naphthalene, 2,3,6-trimethyl-	390	J		10.2	ug/Kg
002245-38-7	Naphthalene, 1,6,7-trimethyl-	220	J		10.3	ug/Kg
002131-41-1	Naphthalene, 1,4,5-trimethyl-	460	J		10.3	ug/Kg
003892-00-0	Pentadecane, 2,6,10-trimethyl-	510	J		10.6	ug/Kg
003218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	360	J		10.6	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	190	J		12.0	ug/Kg
000192-97-2	Benzo[e]pyrene	340	J		15.2	ug/Kg
000205-82-3	Benzo[j]fluoranthene	1600	J		15.4	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