

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Elizabeth Sub HQ	Date Received:	04/17/25
Client Sample ID:	LP5729	SDG No.:	Q1829
Lab Sample ID:	Q1829-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.8
Sample Wt/Vol:	50.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049973.D	5	04/18/25 09:35	04/18/25 19:43	PB167645

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.51	U	0.51	1.10	mg/Kg
108-95-2	Phenol	0.072	U	0.072	0.55	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.079	U	0.079	0.55	mg/Kg
95-57-8	2-Chlorophenol	0.080	U	0.080	0.55	mg/Kg
95-48-7	2-Methylphenol	0.098	U	0.098	0.55	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.12	U	0.12	0.55	mg/Kg
98-86-2	Acetophenone	0.096	U	0.096	0.55	mg/Kg
65794-96-9	3+4-Methylphenols	0.13	U	0.13	1.10	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.15	U	0.15	0.26	mg/Kg
67-72-1	Hexachloroethane	0.057	U	0.057	0.55	mg/Kg
98-95-3	Nitrobenzene	0.060	U	0.060	0.55	mg/Kg
78-59-1	Isophorone	0.11	U	0.11	0.55	mg/Kg
88-75-5	2-Nitrophenol	0.19	U	0.19	0.55	mg/Kg
105-67-9	2,4-Dimethylphenol	0.21	U	0.21	0.55	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.10	U	0.10	0.55	mg/Kg
120-83-2	2,4-Dichlorophenol	0.092	U	0.092	0.55	mg/Kg
91-20-3	Naphthalene	0.074	U	0.074	0.55	mg/Kg
106-47-8	4-Chloroaniline	0.12	U	0.12	0.55	mg/Kg
87-68-3	Hexachlorobutadiene	0.083	U	0.083	0.55	mg/Kg
105-60-2	Caprolactam	0.17	U	0.17	1.10	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.094	U	0.094	0.55	mg/Kg
91-57-6	2-Methylnaphthalene	0.084	U	0.084	0.55	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.38	U	0.38	1.10	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.065	U	0.065	0.55	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.095	U	0.095	0.55	mg/Kg
92-52-4	1,1-Biphenyl	0.071	U	0.071	0.55	mg/Kg
91-58-7	2-Chloronaphthalene	0.073	U	0.073	0.55	mg/Kg
88-74-4	2-Nitroaniline	0.16	U	0.16	0.55	mg/Kg
131-11-3	Dimethylphthalate	0.088	U	0.088	0.55	mg/Kg

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208-96-8	Acenaphthylene	0.52	J	0.094	0.55	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.11	U	0.11	0.55	mg/Kg
99-09-2	3-Nitroaniline	0.15	U	0.15	0.55	mg/Kg
83-32-9	Acenaphthene	0.070	U	0.070	0.55	mg/Kg
51-28-5	2,4-Dinitrophenol	0.75	U	0.75	1.10	mg/Kg
100-02-7	4-Nitrophenol	0.35	U	0.35	1.10	mg/Kg
132-64-9	Dibenzofuran	0.074	U	0.074	0.55	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.16	U	0.16	0.55	mg/Kg
84-66-2	Diethylphthalate	0.092	U	0.092	0.55	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.087	U	0.087	0.55	mg/Kg
86-73-7	Fluorene	0.083	U	0.083	0.55	mg/Kg
100-01-6	4-Nitroaniline	0.21	U	0.21	0.55	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.34	U	0.34	1.10	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.11	U	0.11	0.55	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.091	U	0.091	0.55	mg/Kg
118-74-1	Hexachlorobenzene	0.083	U	0.083	0.55	mg/Kg
1912-24-9	Atrazine	0.11	U	0.11	0.55	mg/Kg
87-86-5	Pentachlorophenol	0.17	U	0.17	1.10	mg/Kg
85-01-8	Phenanthrene	0.47	J	0.068	0.55	mg/Kg
120-12-7	Anthracene	0.70		0.11	0.55	mg/Kg
86-74-8	Carbazole	0.10	U	0.10	0.55	mg/Kg
84-74-2	Di-n-butylphthalate	0.16	U	0.16	0.55	mg/Kg
206-44-0	Fluoranthene	2.20		0.098	0.55	mg/Kg
129-00-0	Pyrene	2.30		0.12	0.55	mg/Kg
85-68-7	Butylbenzylphthalate	0.23	U	0.23	0.55	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.12	U	0.12	1.10	mg/Kg
56-55-3	Benzo(a)anthracene	1.40		0.075	0.55	mg/Kg
218-01-9	Chrysene	1.40		0.065	0.55	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.19	U	0.19	0.55	mg/Kg
117-84-0	Di-n-octyl phthalate	0.28	U	0.28	1.10	mg/Kg
205-99-2	Benzo(b)fluoranthene	2.00		0.062	0.55	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.68		0.073	0.55	mg/Kg
50-32-8	Benzo(a)pyrene	1.50		0.096	0.55	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.86		0.095	0.55	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.27	J	0.089	0.55	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.99		0.084	0.55	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.084	U	0.084	0.55	mg/Kg
123-91-1	1,4-Dioxane	0.15	U	0.15	0.55	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.089	U	0.089	0.55	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	82.3		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	83.5		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.3		18 - 107	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.6		20 - 109	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.9		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	61.2		10 - 105	61%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	660000	7.769
1146-65-2	Naphthalene-d8	2250000	10.563
15067-26-2	Acenaphthene-d10	1330000	14.416
1517-22-2	Phenanthrene-d10	2260000	17.157
1719-03-5	Chrysene-d12	1940000	21.398
1520-96-3	Perylene-d12	2010000	24.409

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	A	4.89	ug/Kg
000119-61-9	Benzophenone	310	J	15.8	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	420	J	18.2	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	250	J	20.1	ug/Kg
000192-97-2	Benzo[e]pyrene	1300	J	24.1	ug/Kg

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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