

Report of Analysis

Client:	PSEG	Date Collected:	03/06/25
Project:	Bridgewater Switch	Date Received:	03/06/25
Client Sample ID:	50-MIDDLESEX-AVEDL	SDG No.:	Q1507
Lab Sample ID:	Q1507-01DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141935.D	5	03/07/25 08:55	03/12/25 12:16	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.53	UD	0.53	1.10	mg/Kg
108-95-2	Phenol	0.075	UD	0.075	0.58	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.083	UD	0.083	0.58	mg/Kg
95-57-8	2-Chlorophenol	0.083	UD	0.083	0.58	mg/Kg
95-48-7	2-Methylphenol	0.10	UD	0.10	0.58	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.13	UD	0.13	0.58	mg/Kg
98-86-2	Acetophenone	0.10	UD	0.10	0.58	mg/Kg
65794-96-9	3+4-Methylphenols	0.14	UD	0.14	1.10	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.16	UD	0.16	0.27	mg/Kg
67-72-1	Hexachloroethane	0.060	UD	0.060	0.58	mg/Kg
98-95-3	Nitrobenzene	0.062	UD	0.062	0.58	mg/Kg
78-59-1	Isophorone	0.11	UD	0.11	0.58	mg/Kg
88-75-5	2-Nitrophenol	0.20	UD	0.20	0.58	mg/Kg
105-67-9	2,4-Dimethylphenol	0.22	UD	0.22	0.58	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.10	UD	0.10	0.58	mg/Kg
120-83-2	2,4-Dichlorophenol	0.096	UD	0.096	0.58	mg/Kg
91-20-3	Naphthalene	0.077	UD	0.077	0.58	mg/Kg
106-47-8	4-Chloroaniline	0.12	UD	0.12	0.58	mg/Kg
87-68-3	Hexachlorobutadiene	0.086	UD	0.086	0.58	mg/Kg
105-60-2	Caprolactam	0.18	UD	0.18	1.10	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.098	UD	0.098	0.58	mg/Kg
91-57-6	2-Methylnaphthalene	0.087	UD	0.087	0.58	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.39	UD	0.39	1.10	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.067	UD	0.067	0.58	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.099	UD	0.099	0.58	mg/Kg
92-52-4	1,1-Biphenyl	0.074	UD	0.074	0.58	mg/Kg
91-58-7	2-Chloronaphthalene	0.077	UD	0.077	0.58	mg/Kg
88-74-4	2-Nitroaniline	0.16	UD	0.16	0.58	mg/Kg
131-11-3	Dimethylphthalate	0.092	UD	0.092	0.58	mg/Kg

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208-96-8	Acenaphthylene	0.098	UD	0.098	0.58	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.11	UD	0.11	0.58	mg/Kg
99-09-2	3-Nitroaniline	0.16	UD	0.16	0.58	mg/Kg
83-32-9	Acenaphthene	0.073	UD	0.073	0.58	mg/Kg
51-28-5	2,4-Dinitrophenol	0.78	UD	0.78	1.10	mg/Kg
100-02-7	4-Nitrophenol	0.36	UD	0.36	1.10	mg/Kg
132-64-9	Dibenzofuran	0.077	UD	0.077	0.58	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.17	UD	0.17	0.58	mg/Kg
84-66-2	Diethylphthalate	0.096	UD	0.096	0.58	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.091	UD	0.091	0.58	mg/Kg
86-73-7	Fluorene	0.086	UD	0.086	0.58	mg/Kg
100-01-6	4-Nitroaniline	0.22	UD	0.22	0.58	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.35	UD	0.35	1.10	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.11	UD	0.11	0.58	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.095	UD	0.095	0.58	mg/Kg
118-74-1	Hexachlorobenzene	0.086	UD	0.086	0.58	mg/Kg
1912-24-9	Atrazine	0.12	UD	0.12	0.58	mg/Kg
87-86-5	Pentachlorophenol	0.17	UD	0.17	1.10	mg/Kg
85-01-8	Phenanthrene	1.80	D	0.071	0.58	mg/Kg
120-12-7	Anthracene	0.57	JD	0.11	0.58	mg/Kg
86-74-8	Carbazole	0.11	UD	0.11	0.58	mg/Kg
84-74-2	Di-n-butylphthalate	0.16	UD	0.16	0.58	mg/Kg
206-44-0	Fluoranthene	5.70	D	0.10	0.58	mg/Kg
129-00-0	Pyrene	4.70	D	0.12	0.58	mg/Kg
85-68-7	Butylbenzylphthalate	0.24	UD	0.24	0.58	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.12	UD	0.12	1.10	mg/Kg
56-55-3	Benzo(a)anthracene	4.10	D	0.078	0.58	mg/Kg
218-01-9	Chrysene	3.90	D	0.068	0.58	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.20	UD	0.20	0.58	mg/Kg
117-84-0	Di-n-octyl phthalate	0.30	UD	0.30	1.10	mg/Kg
205-99-2	Benzo(b)fluoranthene	3.20	D	0.065	0.58	mg/Kg

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207-08-9	Benzo(k)fluoranthene	1.70	D	0.076	0.58	mg/Kg
50-32-8	Benzo(a)pyrene	2.60	D	0.10	0.58	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	D	0.099	0.58	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.42	JD	0.093	0.58	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.10	D	0.088	0.58	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.087	UD	0.087	0.58	mg/Kg
123-91-1	1,4-Dioxane	0.15	UD	0.15	0.58	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.093	UD	0.093	0.58	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	92.0		18 - 112	61%	SPK: 150
13127-88-3	Phenol-d6	92.2		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.2		18 - 107	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.7		20 - 109	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.7		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	50.5		10 - 105	51%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	145000	6.881
1146-65-2	Naphthalene-d8	573000	8.157
15067-26-2	Acenaphthene-d10	316000	9.91
1517-22-2	Phenanthrene-d10	471000	11.398
1719-03-5	Chrysene-d12	317000	14.039
1520-96-3	Perylene-d12	375000	15.51

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