

Report of Analysis

Client:	PSEG	Date Collected:	10/28/25
Project:	South Mahwah Switch	Date Received:	10/28/25
Client Sample ID:	SOUTH-MAHWAH-WATER	SDG No.:	Q3477
Lab Sample ID:	Q3477-03	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 mL	Test:	SVOC-TCL BNA -20
Prep Method :			
	Level : LOW		
	Final Vol: 1000 uL		
	Prep Date: 10/31/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	10.2	U	1	4.00	10.2	ug/L	10/31/25 17:35	PB170346
108-95-2	Phenol	5.10	U	1	0.93	5.10	ug/L	10/31/25 17:35	PB170346
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1	0.83	5.10	ug/L	10/31/25 17:35	PB170346
95-57-8	2-Chlorophenol	5.10	U	1	0.59	5.10	ug/L	10/31/25 17:35	PB170346
95-48-7	2-Methylphenol	5.10	U	1	1.10	5.10	ug/L	10/31/25 17:35	PB170346
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	1	1.30	5.10	ug/L	10/31/25 17:35	PB170346
98-86-2	Acetophenone	5.10	U	1	0.76	5.10	ug/L	10/31/25 17:35	PB170346
65794-96-9	3+4-Methylphenols	10.2	U	1	1.10	10.2	ug/L	10/31/25 17:35	PB170346
621-64-7	n-Nitroso-di-n-propylamine	2.60	U	1	1.40	2.60	ug/L	10/31/25 17:35	PB170346
67-72-1	Hexachloroethane	5.10	U	1	0.66	5.10	ug/L	10/31/25 17:35	PB170346
98-95-3	Nitrobenzene	5.10	U	1	0.78	5.10	ug/L	10/31/25 17:35	PB170346
78-59-1	Isophorone	5.10	U	1	0.77	5.10	ug/L	10/31/25 17:35	PB170346
88-75-5	2-Nitrophenol	5.10	U	1	1.80	5.10	ug/L	10/31/25 17:35	PB170346
105-67-9	2,4-Dimethylphenol	5.10	U	1	1.90	5.10	ug/L	10/31/25 17:35	PB170346
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	1	0.69	5.10	ug/L	10/31/25 17:35	PB170346
120-83-2	2,4-Dichlorophenol	5.10	U	1	0.53	5.10	ug/L	10/31/25 17:35	PB170346
91-20-3	Naphthalene	5.10	U	1	0.51	5.10	ug/L	10/31/25 17:35	PB170346
106-47-8	4-Chloroaniline	5.10	U	1	0.86	5.10	ug/L	10/31/25 17:35	PB170346
87-68-3	Hexachlorobutadiene	5.10	U	1	0.55	5.10	ug/L	10/31/25 17:35	PB170346
105-60-2	Caprolactam	10.2	U	1	1.20	10.2	ug/L	10/31/25 17:35	PB170346
59-50-7	4-Chloro-3-methylphenol	5.10	U	1	0.60	5.10	ug/L	10/31/25 17:35	PB170346
91-57-6	2-Methylnaphthalene	5.10	U	1	0.57	5.10	ug/L	10/31/25 17:35	PB170346
77-47-4	Hexachlorocyclopentadiene	10.2	U	1	3.70	10.2	ug/L	10/31/25 17:35	PB170346
88-06-2	2,4,6-Trichlorophenol	5.10	U	1	0.52	5.10	ug/L	10/31/25 17:35	PB170346
95-95-4	2,4,5-Trichlorophenol	5.10	U	1	0.63	5.10	ug/L	10/31/25 17:35	PB170346
92-52-4	1,1-Biphenyl	5.10	U	1	0.54	5.10	ug/L	10/31/25 17:35	PB170346
91-58-7	2-Chloronaphthalene	5.10	U	1	0.62	5.10	ug/L	10/31/25 17:35	PB170346
88-74-4	2-Nitroaniline	5.10	U	1	1.30	5.10	ug/L	10/31/25 17:35	PB170346
131-11-3	Dimethylphthalate	5.10	U	1	0.62	5.10	ug/L	10/31/25 17:35	PB170346
208-96-8	Acenaphthylene	5.10	U	1	0.77	5.10	ug/L	10/31/25 17:35	PB170346
606-20-2	2,6-Dinitrotoluene	5.10	U	1	0.94	5.10	ug/L	10/31/25 17:35	PB170346
99-09-2	3-Nitroaniline	5.10	U	1	1.10	5.10	ug/L	10/31/25 17:35	PB170346
83-32-9	Acenaphthene	5.10	U	1	0.56	5.10	ug/L	10/31/25 17:35	PB170346
51-28-5	2,4-Dinitrophenol	10.2	U	1	6.10	10.2	ug/L	10/31/25 17:35	PB170346
100-02-7	4-Nitrophenol	10.2	U	1	2.40	10.2	ug/L	10/31/25 17:35	PB170346
132-64-9	Dibenzofuran	5.10	U	1	0.62	5.10	ug/L	10/31/25 17:35	PB170346
121-14-2	2,4-Dinitrotoluene	5.10	U	1	1.20	5.10	ug/L	10/31/25 17:35	PB170346
84-66-2	Diethylphthalate	5.10	U	1	0.70	5.10	ug/L	10/31/25 17:35	PB170346
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	1	0.69	5.10	ug/L	10/31/25 17:35	PB170346
86-73-7	Fluorene	5.10	U	1	0.64	5.10	ug/L	10/31/25 17:35	PB170346
100-01-6	4-Nitroaniline	5.10	U	1	1.50	5.10	ug/L	10/31/25 17:35	PB170346
534-52-1	4,6-Dinitro-2-methylphenol	10.2	U	1	2.90	10.2	ug/L	10/31/25 17:35	PB170346

Report of Analysis

Client: PSEG
Project: South Mahwah Switch
Client Sample ID: SOUTH-MAHWAH-WATER
Lab Sample ID: Q3477-03

Analytical Method: 8270E Level: LOW
Sample Wt/Vol: 980 mL Final Vol: 1000 uL
Prep Method: Prep Date: 10/31/25

Date Collected: 10/28/25
Date Received: 10/28/25
SDG No.: Q3477
Matrix: Water
% Solid: 0
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	5.10	U	1	0.59	5.10	ug/L	10/31/25 17:35	PB170346
101-55-3	4-Bromophenyl-phenylether	5.10	U	1	0.41	5.10	ug/L	10/31/25 17:35	PB170346
118-74-1	Hexachlorobenzene	5.10	U	1	0.53	5.10	ug/L	10/31/25 17:35	PB170346
1912-24-9	Atrazine	5.10	U	1	1.00	5.10	ug/L	10/31/25 17:35	PB170346
87-86-5	Pentachlorophenol	10.2	U	1	1.60	10.2	ug/L	10/31/25 17:35	PB170346
85-01-8	Phenanthrene	5.10	U	1	0.51	5.10	ug/L	10/31/25 17:35	PB170346
120-12-7	Anthracene	5.10	U	1	0.62	5.10	ug/L	10/31/25 17:35	PB170346
86-74-8	Carbazole	5.10	U	1	0.73	5.10	ug/L	10/31/25 17:35	PB170346
84-74-2	Di-n-butylphthalate	5.10	U	1	1.20	5.10	ug/L	10/31/25 17:35	PB170346
206-44-0	Fluoranthene	5.10	U	1	0.84	5.10	ug/L	10/31/25 17:35	PB170346
129-00-0	Pyrene	5.10	U	1	0.51	5.10	ug/L	10/31/25 17:35	PB170346
85-68-7	Butylbenzylphthalate	5.10	U	1	2.00	5.10	ug/L	10/31/25 17:35	PB170346
91-94-1	3,3-Dichlorobenzidine	10.2	U	1	0.95	10.2	ug/L	10/31/25 17:35	PB170346
56-55-3	Benzo(a)anthracene	5.10	U	1	0.46	5.10	ug/L	10/31/25 17:35	PB170346
218-01-9	Chrysene	5.10	U	1	0.45	5.10	ug/L	10/31/25 17:35	PB170346
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	1	1.60	5.10	ug/L	10/31/25 17:35	PB170346
117-84-0	Di-n-octyl phthalate	10.2	U	1	2.40	10.2	ug/L	10/31/25 17:35	PB170346
205-99-2	Benzo(b)fluoranthene	5.10	U	1	0.50	5.10	ug/L	10/31/25 17:35	PB170346
207-08-9	Benzo(k)fluoranthene	5.10	U	1	0.49	5.10	ug/L	10/31/25 17:35	PB170346
50-32-8	Benzo(a)pyrene	5.10	U	1	0.56	5.10	ug/L	10/31/25 17:35	PB170346
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	1	0.60	5.10	ug/L	10/31/25 17:35	PB170346
53-70-3	Dibenzo(a,h)anthracene	5.10	U	1	0.68	5.10	ug/L	10/31/25 17:35	PB170346
191-24-2	Benzo(g,h,i)perylene	5.10	U	1	0.70	5.10	ug/L	10/31/25 17:35	PB170346
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	1	0.53	5.10	ug/L	10/31/25 17:35	PB170346
123-91-1	1,4-Dioxane	5.10	U	1	1.00	5.10	ug/L	10/31/25 17:35	PB170346
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1	0.73	5.10	ug/L	10/31/25 17:35	PB170346

SURROGATES

367-12-4	2-Fluorophenol	45.9		23 - 138	31%	SPK: 150
13127-88-3	Phenol-d6	31.5		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.8		67 - 132	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.1		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		44 - 137	99%	SPK: 150
1718-51-0	Terphenyl-d14	87.3		42 - 152	87%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	40000
1146-65-2	Naphthalene-d8	158000
15067-26-2	Acenaphthene-d10	125000
1517-22-2	Phenanthrene-d10	286000
1719-03-5	Chrysene-d12	302000
1520-96-3	Perylene-d12	333000

TENTATIVE IDENTIFIED COMPOUNDS

000126-86-3	2,4,7,9-Tetramethyl-5-decyn-4,7-di	3.40	J	13.7	ug/L
000057-10-3	n-Hexadecanoic acid	2.80	J	18.4	ug/L

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Lab Sample ID:	Q3477-03	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 mL	Test:	SVOC-TCL BNA -20
Prep Method :			
	Level : LOW		
	Final Vol: 1000 uL		
	Prep Date: 10/31/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000506-17-2	cis-Vaccenic acid	4.60	J			19.6	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