

Report of Analysis

Client:	PSEG	Date Collected:	05/20/25
Project:	New Brunswick Gas and Appliance Service MA00006789	Date Received:	05/20/25
Client Sample ID:	NB-08-05202025	SDG No.:	Q2087
Lab Sample ID:	Q2087-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95
Sample Wt/Vol:	50.08	Units:	g
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		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024750.D	1	05/21/25 10:00	05/21/25 23:40	PB168104

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.098	U	0.098	0.21	mg/Kg
108-95-2	Phenol	0.014	U	0.014	0.11	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.015	U	0.015	0.11	mg/Kg
95-57-8	2-Chlorophenol	0.015	U	0.015	0.11	mg/Kg
95-48-7	2-Methylphenol	0.019	U	0.019	0.11	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.024	U	0.024	0.11	mg/Kg
98-86-2	Acetophenone	0.019	U	0.019	0.11	mg/Kg
65794-96-9	3+4-Methylphenols	0.026	U	0.026	0.21	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.030	U	0.030	0.050	mg/Kg
67-72-1	Hexachloroethane	0.011	U	0.011	0.11	mg/Kg
98-95-3	Nitrobenzene	0.012	U	0.012	0.11	mg/Kg
78-59-1	Isophorone	0.021	U	0.021	0.11	mg/Kg
88-75-5	2-Nitrophenol	0.037	U	0.037	0.11	mg/Kg
105-67-9	2,4-Dimethylphenol	0.041	U	0.041	0.11	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.019	U	0.019	0.11	mg/Kg
120-83-2	2,4-Dichlorophenol	0.018	U	0.018	0.11	mg/Kg
91-20-3	Naphthalene	0.014	U	0.014	0.11	mg/Kg
106-47-8	4-Chloroaniline	0.022	U	0.022	0.11	mg/Kg
87-68-3	Hexachlorobutadiene	0.016	U	0.016	0.11	mg/Kg
105-60-2	Caprolactam	0.033	U	0.033	0.21	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.018	U	0.018	0.11	mg/Kg
91-57-6	2-Methylnaphthalene	0.016	U	0.016	0.11	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.073	U	0.073	0.21	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.013	U	0.013	0.11	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.018	U	0.018	0.11	mg/Kg
92-52-4	1,1-Biphenyl	0.014	U	0.014	0.11	mg/Kg
91-58-7	2-Chloronaphthalene	0.014	U	0.014	0.11	mg/Kg
88-74-4	2-Nitroaniline	0.030	U	0.030	0.11	mg/Kg
131-11-3	Dimethylphthalate	0.017	U	0.017	0.11	mg/Kg

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208-96-8	Acenaphthylene	0.018	U	0.018	0.11	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.021	U	0.021	0.11	mg/Kg
99-09-2	3-Nitroaniline	0.029	U	0.029	0.11	mg/Kg
83-32-9	Acenaphthene	0.013	U	0.013	0.11	mg/Kg
51-28-5	2,4-Dinitrophenol	0.14	U	0.14	0.21	mg/Kg
100-02-7	4-Nitrophenol	0.068	U	0.068	0.21	mg/Kg
132-64-9	Dibenzofuran	0.014	U	0.014	0.11	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.032	U	0.032	0.11	mg/Kg
84-66-2	Diethylphthalate	0.018	U	0.018	0.11	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.017	U	0.017	0.11	mg/Kg
86-73-7	Fluorene	0.016	U	0.016	0.11	mg/Kg
100-01-6	4-Nitroaniline	0.041	U	0.041	0.11	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.065	U	0.065	0.21	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.021	U	0.021	0.11	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.018	U	0.018	0.11	mg/Kg
118-74-1	Hexachlorobenzene	0.016	U	0.016	0.11	mg/Kg
1912-24-9	Atrazine	0.021	U	0.021	0.11	mg/Kg
87-86-5	Pentachlorophenol	0.032	U	0.032	0.21	mg/Kg
85-01-8	Phenanthrene	0.013	U	0.013	0.11	mg/Kg
120-12-7	Anthracene	0.021	U	0.021	0.11	mg/Kg
86-74-8	Carbazole	0.020	U	0.020	0.11	mg/Kg
84-74-2	Di-n-butylphthalate	0.030	U	0.030	0.11	mg/Kg
206-44-0	Fluoranthene	0.019	U	0.019	0.11	mg/Kg
129-00-0	Pyrene	0.023	U	0.023	0.11	mg/Kg
85-68-7	Butylbenzylphthalate	0.045	U	0.045	0.11	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.023	U	0.023	0.21	mg/Kg
56-55-3	Benzo(a)anthracene	0.015	U	0.015	0.11	mg/Kg
218-01-9	Chrysene	0.013	U	0.013	0.11	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.037	U	0.037	0.11	mg/Kg
117-84-0	Di-n-octyl phthalate	0.055	U	0.055	0.21	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.012	U	0.012	0.11	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.014	U	0.014	0.11	mg/Kg
50-32-8	Benzo(a)pyrene	0.019	U	0.019	0.11	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.018	U	0.018	0.11	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.017	U	0.017	0.11	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.016	U	0.016	0.11	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.016	U	0.016	0.11	mg/Kg
123-91-1	1,4-Dioxane	0.029	U	0.029	0.11	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.017	U	0.017	0.11	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	87.2		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	84.8		15 - 107	57%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.1		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.4		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	95.7		10 - 116	64%	SPK: 150
1718-51-0	Terphenyl-d14	53.6		10 - 105	54%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	117000	7.657
1146-65-2	Naphthalene-d8	464000	10.422
15067-26-2	Acenaphthene-d10	301000	14.281
1517-22-2	Phenanthrene-d10	587000	17.092
1719-03-5	Chrysene-d12	678000	21.516
1520-96-3	Perylene-d12	853000	24.798

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	110	A	4.82	ug/Kg
000629-62-9	Pentadecane	53.4	J	14.2	ug/Kg
000544-76-3	Hexadecane	73.1	J	15.2	ug/Kg
000119-61-9	Benzophenone	120	J	15.7	ug/Kg
000629-78-7	Heptadecane	100	J	16.0	ug/Kg
000629-94-7	Heneicosane	95.0	J	16.9	ug/Kg
000638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	52.5	J	16.9	ug/Kg

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000629-92-5	Nonadecane	89.3	J		17.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		18.0	ug/Kg
000646-31-1	Tetracosane	82.4	J		18.3	ug/Kg
054833-48-6	Heptadecane, 2,6,10,15-tetramethyl	68.1	J		19.0	ug/Kg
010192-32-2	1-Tetracosene	65.4	J		21.2	ug/Kg
000791-28-6	Triphenylphosphine oxide	49.4	J		21.7	ug/Kg
005385-75-1	Dibenz(a,e)aceanthrylene	110	J		22.7	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