

Report of Analysis

Client:	PSEG	Date Collected:	01/13/25
Project:	Trenton Gas and Appliance Service MA00006789	Date Received:	01/13/25
Client Sample ID:	TR-05-01132025	SDG No.:	Q1077
Lab Sample ID:	Q1077-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
Sample Wt/Vol:	50.02 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
BF141161.D	1	01/14/25 08:55	01/14/25 22:08	PB166045

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.12	U	0.12	0.22	mg/Kg
108-95-2	Phenol	0.055	U	0.055	0.11	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.056	U	0.056	0.11	mg/Kg
95-57-8	2-Chlorophenol	0.056	U	0.056	0.11	mg/Kg
95-48-7	2-Methylphenol	0.054	U	0.054	0.11	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.061	U	0.061	0.11	mg/Kg
98-86-2	Acetophenone	0.058	U	0.058	0.11	mg/Kg
65794-96-9	3+4-Methylphenols	0.053	U	0.053	0.22	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.027	U	0.027	0.053	mg/Kg
67-72-1	Hexachloroethane	0.055	U	0.055	0.11	mg/Kg
98-95-3	Nitrobenzene	0.060	U	0.060	0.11	mg/Kg
78-59-1	Isophorone	0.056	U	0.056	0.11	mg/Kg
88-75-5	2-Nitrophenol	0.063	U	0.063	0.11	mg/Kg
105-67-9	2,4-Dimethylphenol	0.062	U	0.062	0.11	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.057	U	0.057	0.11	mg/Kg
120-83-2	2,4-Dichlorophenol	0.050	U	0.050	0.11	mg/Kg
91-20-3	Naphthalene	0.60		0.055	0.11	mg/Kg
106-47-8	4-Chloroaniline	0.055	U	0.055	0.11	mg/Kg
87-68-3	Hexachlorobutadiene	0.055	U	0.055	0.11	mg/Kg
105-60-2	Caprolactam	0.058	U	0.058	0.22	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.052	U	0.052	0.11	mg/Kg
91-57-6	2-Methylnaphthalene	0.68		0.055	0.11	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.10	U	0.10	0.22	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.048	U	0.048	0.11	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.049	U	0.049	0.11	mg/Kg
92-52-4	1,1-Biphenyl	0.15		0.058	0.11	mg/Kg
91-58-7	2-Chloronaphthalene	0.055	U	0.055	0.11	mg/Kg
88-74-4	2-Nitroaniline	0.063	U	0.063	0.11	mg/Kg
131-11-3	Dimethylphthalate	0.054	U	0.054	0.11	mg/Kg

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208-96-8	Acenaphthylene	0.15		0.058	0.11	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.055	U	0.055	0.11	mg/Kg
99-09-2	3-Nitroaniline	0.059	U	0.059	0.11	mg/Kg
83-32-9	Acenaphthene	0.35		0.054	0.11	mg/Kg
51-28-5	2,4-Dinitrophenol	0.16	U	0.16	0.22	mg/Kg
100-02-7	4-Nitrophenol	0.077	U	0.077	0.22	mg/Kg
132-64-9	Dibenzofuran	0.096	J	0.056	0.11	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.057	U	0.057	0.11	mg/Kg
84-66-2	Diethylphthalate	0.053	U	0.053	0.11	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.057	U	0.057	0.11	mg/Kg
86-73-7	Fluorene	0.21		0.057	0.11	mg/Kg
100-01-6	4-Nitroaniline	0.071	U	0.071	0.11	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.078	U	0.078	0.22	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.054	U	0.054	0.11	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.053	U	0.053	0.11	mg/Kg
118-74-1	Hexachlorobenzene	0.057	U	0.057	0.11	mg/Kg
1912-24-9	Atrazine	0.061	U	0.061	0.11	mg/Kg
87-86-5	Pentachlorophenol	0.052	U	0.052	0.22	mg/Kg
85-01-8	Phenanthrene	1.40		0.056	0.11	mg/Kg
120-12-7	Anthracene	0.42		0.056	0.11	mg/Kg
86-74-8	Carbazole	0.054	U	0.054	0.11	mg/Kg
84-74-2	Di-n-butylphthalate	0.056	U	0.056	0.11	mg/Kg
206-44-0	Fluoranthene	0.72		0.054	0.11	mg/Kg
129-00-0	Pyrene	0.67		0.055	0.11	mg/Kg
85-68-7	Butylbenzylphthalate	0.064	U	0.064	0.11	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.066	U	0.066	0.22	mg/Kg
56-55-3	Benzo(a)anthracene	0.32		0.054	0.11	mg/Kg
218-01-9	Chrysene	0.30		0.053	0.11	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.061	U	0.061	0.11	mg/Kg
117-84-0	Di-n-octyl phthalate	0.073	U	0.073	0.22	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.33		0.054	0.11	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.13		0.055	0.11	mg/Kg
50-32-8	Benzo(a)pyrene	0.41		0.062	0.11	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14		0.052	0.11	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.054	U	0.054	0.11	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.19		0.053	0.11	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.058	U	0.058	0.11	mg/Kg
123-91-1	1,4-Dioxane	0.073	U	0.073	0.11	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.050	U	0.050	0.11	mg/Kg

SURROGATES

367-12-4	2-Fluorophenol	78.6		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	74.8		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.0		18 - 107	56%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.6		20 - 109	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.0		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	41.5		10 - 105	41%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	136000	6.822
1146-65-2	Naphthalene-d8	489000	8.104
15067-26-2	Acenaphthene-d10	220000	9.857
1517-22-2	Phenanthrene-d10	322000	11.345
1719-03-5	Chrysene-d12	288000	13.986
1520-96-3	Perylene-d12	233000	15.445

TENTATIVE IDENTIFIED COMPOUNDS

000124-18-5	Decane	140	J	6.66	ug/Kg
001074-43-7	Benzene, 1-methyl-3-propyl-	110	J	7.09	ug/Kg
000934-10-1	3-Phenylbut-1-ene	120	J	7.84	ug/Kg
000629-50-5	Tridecane	150	J	8.70	ug/Kg
90-12-0	1-Methylnaphthalene	580	J	8.92	ug/Kg
001127-76-0	Naphthalene, 1-ethyl-	200	J	9.38	ug/Kg
000575-43-9	Naphthalene, 1,6-dimethyl-	360	J	9.44	ug/Kg

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000581-40-8	Naphthalene, 2,3-dimethyl-	410	J		9.52	ug/Kg
	unknown9.581	150	J		9.58	ug/Kg
000571-61-9	Naphthalene, 1,5-dimethyl-	220	J		9.63	ug/Kg
000629-62-9	Pentadecane	210	J		9.79	ug/Kg
Total PAH	Total PAH	6300	J		9.89	ug/Kg
002027-17-0	Naphthalene, 2-(1-methylethyl)-	120	J		9.96	ug/Kg
000544-76-3	Hexadecane	310	J		10.3	ug/Kg
001855-47-6	1-Isopropenylnaphthalene	110	J		10.5	ug/Kg
000119-61-9	Benzophenone	110	J		10.6	ug/Kg
000629-78-7	Heptadecane	130	J		10.8	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	100	J		11.9	ug/Kg
1000460-85-7	1H-1,2,4-Triazol-5-amine, 3-bromo-	200	J		12.0	ug/Kg
052380-33-3	11-Octadecenoic acid, methyl ester	220	J		12.5	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	91.0	J		13.2	ug/Kg
000192-97-2	Benzo[e]pyrene	280	J		15.3	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