Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PSEG	Date Collected:	08/06/25
Project:	Plainfield Gas and Appliance Service MA0006789	Date Received:	08/06/25
Client Sample ID:	PL-03-08062025	SDG No.:	Q2786
Lab Sample ID:	Q2786-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
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
BP025316.D	1	08/07/25 08:55	08/07/25 16:31	PB169155

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.11	U	0.11	0.23	mg/Kg
108-95-2	Phenol	0.016	U	0.016	0.12	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.017	U	0.017	0.12	mg/Kg
95-57-8	2-Chlorophenol	0.017	U	0.017	0.12	mg/Kg
95-48-7	2-Methylphenol	0.021	U	0.021	0.12	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.026	U	0.026	0.12	mg/Kg
98-86-2	Acetophenone	0.021	U	0.021	0.12	mg/Kg
65794-96-9	3+4-Methylphenols	0.029	U	0.029	0.23	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.033	U	0.033	0.056	mg/Kg
67-72-1	Hexachloroethane	0.012	U	0.012	0.12	mg/Kg
98-95-3	Nitrobenzene	0.013	U	0.013	0.12	mg/Kg
78-59-1	Isophorone	0.023	U	0.023	0.12	mg/Kg
88-75-5	2-Nitrophenol	0.041	U	0.041	0.12	mg/Kg
105-67-9	2,4-Dimethylphenol	0.045	U	0.045	0.12	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.022	U	0.022	0.12	mg/Kg
120-83-2	2,4-Dichlorophenol	0.020	U	0.020	0.12	mg/Kg
91-20-3	Naphthalene	0.37		0.016	0.12	mg/Kg
106-47-8	4-Chloroaniline	0.025	U	0.025	0.12	mg/Kg
87-68-3	Hexachlorobutadiene	0.018	U	0.018	0.12	mg/Kg
105-60-2	Caprolactam	0.036	U	0.036	0.23	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.020	U	0.020	0.12	mg/Kg
91-57-6	2-Methylnaphthalene	0.72		0.018	0.12	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.081	U	0.081	0.23	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.014	U	0.014	0.12	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.020	U	0.020	0.12	mg/Kg
92-52-4	1,1-Biphenyl	0.015	U	0.015	0.12	mg/Kg
91-58-7	2-Chloronaphthalene	0.016	U	0.016	0.12	mg/Kg
88-74-4	2-Nitroaniline	0.034	U	0.034	0.12	mg/Kg
131-11-3	Dimethylphthalate	0.019	U	0.019	0.12	mg/Kg

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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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208-96-8	Acenaphthylene	0.020	U	0.020	0.12	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.024	U	0.024	0.12	mg/Kg
99-09-2	3-Nitroaniline	0.032	U	0.032	0.12	mg/Kg
83-32-9	Acenaphthene	0.015	U	0.015	0.12	mg/Kg
51-28-5	2,4-Dinitrophenol	0.16	U	0.16	0.23	mg/Kg
100-02-7	4-Nitrophenol	0.075	U	0.075	0.23	mg/Kg
132-64-9	Dibenzofuran	0.016	U	0.016	0.12	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.035	U	0.035	0.12	mg/Kg
84-66-2	Diethylphthalate	0.020	U	0.020	0.12	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.019	U	0.019	0.12	mg/Kg
86-73-7	Fluorene	0.018	U	0.018	0.12	mg/Kg
100-01-6	4-Nitroaniline	0.045	U	0.045	0.12	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.072	U	0.072	0.23	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.023	U	0.023	0.12	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.019	U	0.019	0.12	mg/Kg
118-74-1	Hexachlorobenzene	0.018	U	0.018	0.12	mg/Kg
1912-24-9	Atrazine	0.024	U	0.024	0.12	mg/Kg
87-86-5	Pentachlorophenol	0.036	U	0.036	0.23	mg/Kg
85-01-8	Phenanthrene	0.059	J	0.015	0.12	mg/Kg
120-12-7	Anthracene	0.023	U	0.023	0.12	mg/Kg
86-74-8	Carbazole	0.022	U	0.022	0.12	mg/Kg
84-74-2	Di-n-butylphthalate	0.034	U	0.034	0.12	mg/Kg
206-44-0	Fluoranthene	0.078	J	0.021	0.12	mg/Kg
129-00-0	Pyrene	0.077	J	0.025	0.12	mg/Kg
85-68-7	Butylbenzylphthalate	0.050	U	0.050	0.12	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.026	U	0.026	0.23	mg/Kg
56-55-3	Benzo(a)anthracene	0.016	U	0.016	0.12	mg/Kg
218-01-9	Chrysene	0.014	U	0.014	0.12	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.041	U	0.041	0.12	mg/Kg
117-84-0	Di-n-octyl phthalate	0.061	U	0.061	0.23	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.12	mg/Kg

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207-08-9	Benzo(k)fluoranthene	0.016	U	0.016	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	0.021	U	0.021	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.019	U	0.019	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.018	U	0.018	0.12	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.018	U	0.018	0.12	mg/Kg
123-91-1	1,4-Dioxane	0.032	U	0.032	0.12	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.019	U	0.019	0.12	mg/Kg
SURROGATES						
367-12-4	2-Fluorophenol	76.6		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	77.5		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.3		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.1		20 - 109	36%	SPK: 100
118-79-6	2,4,6-Tribromophenol	88.1		10 - 116	59%	SPK: 150
1718-51-0	Terphenyl-d14	42.1		10 - 105	42%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	230000	7.808			
1146-65-2	Naphthalene-d8	949000	10.578			
15067-26-2	Acenaphthene-d10	639000	14.419			
1517-22-2	Phenanthrene-d10	1260000	17.219			
1719-03-5	Chrysene-d12	1200000	21.666			
1520-96-3	Perylene-d12	1340000	25.054			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	470	J		3.04	ug/Kg
000560-21-4	Pentane, 2,3,3-trimethyl-	480	J		3.91	ug/Kg
000592-13-2	Hexane, 2,5-dimethyl-	450	J		3.96	ug/Kg
000589-81-1	Heptane, 3-methyl-	510	J		4.05	ug/Kg
002216-34-4	Octane, 4-methyl-	400	J		5.30	ug/Kg
000108-38-3	Benzene, 1,3-dimethyl-	400	J		5.51	ug/Kg
	unknown6.114	410	J		6.11	ug/Kg

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000103-65-1	Benzene, propyl-	1400	J		6.80	ug/Kg
000871-83-0	Nonane, 2-methyl-	380	J		6.88	ug/Kg
000611-14-3	Benzene, 1-ethyl-2-methyl-	390	J		7.21	ug/Kg
000526-73-8	Benzene, 1,2,3-trimethyl-	640	J		7.46	ug/Kg
000496-11-7	Indane	510	J		8.18	ug/Kg
000141-93-5	Benzene, 1,3-diethyl-	600	J		8.30	ug/Kg
001074-55-1	Benzene, 1-methyl-4-propyl-	410	J		8.35	ug/Kg
000105-05-5	Benzene, 1,4-diethyl-	1300	J		8.44	ug/Kg
002096-86-8	4-Methylphenyl acetone	490	J		9.15	ug/Kg
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	420	J		9.43	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	490	J		9.99	ug/Kg
90-12-0	1-Methylnaphthalene	530	J		12.4	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