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

Report of Analysis

Client:	PSEG			Date Collected:	03/20/25
Project:	Roseland Switch			Date Received:	03/20/25
Client Sample ID:	SOIL-PILE			SDG No.:	Q1610
Lab Sample ID:	Q1610-02			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	86.5
Sample Wt/Vol:	50.05	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
BF142035.D	1	03/21/25 08:10	03/21/25 17:50	PB167254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	0.23	U	0.11	0.23	mg/Kg
108-95-2	Phenol	0.12	U	0.015	0.12	mg/Kg
111-44-4	bis(2-Chloroethyl)ether	0.12	U	0.017	0.12	mg/Kg
95-57-8	2-Chlorophenol	0.12	U	0.017	0.12	mg/Kg
95-48-7	2-Methylphenol	0.12	U	0.021	0.12	mg/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	0.12	U	0.026	0.12	mg/Kg
98-86-2	Acetophenone	0.12	U	0.020	0.12	mg/Kg
65794-96-9	3+4-Methylphenols	0.23	U	0.029	0.23	mg/Kg
621-64-7	n-Nitroso-di-n-propylamine	0.055	U	0.033	0.055	mg/Kg
67-72-1	Hexachloroethane	0.12	U	0.012	0.12	mg/Kg
98-95-3	Nitrobenzene	0.12	U	0.013	0.12	mg/Kg
78-59-1	Isophorone	0.12	U	0.023	0.12	mg/Kg
88-75-5	2-Nitrophenol	0.12	U	0.040	0.12	mg/Kg
105-67-9	2,4-Dimethylphenol	0.12	U	0.045	0.12	mg/Kg
111-91-1	bis(2-Chloroethoxy)methane	0.12	U	0.021	0.12	mg/Kg
120-83-2	2,4-Dichlorophenol	0.12	U	0.020	0.12	mg/Kg
91-20-3	Naphthalene	0.12	U	0.016	0.12	mg/Kg
106-47-8	4-Chloroaniline	0.12	U	0.025	0.12	mg/Kg
87-68-3	Hexachlorobutadiene	0.12	U	0.018	0.12	mg/Kg
105-60-2	Caprolactam	0.23	U	0.036	0.23	mg/Kg
59-50-7	4-Chloro-3-methylphenol	0.12	U	0.020	0.12	mg/Kg
91-57-6	2-Methylnaphthalene	0.12	U	0.018	0.12	mg/Kg
77-47-4	Hexachlorocyclopentadiene	0.23	U	0.080	0.23	mg/Kg
88-06-2	2,4,6-Trichlorophenol	0.12	U	0.014	0.12	mg/Kg
95-95-4	2,4,5-Trichlorophenol	0.12	U	0.020	0.12	mg/Kg
92-52-4	1,1-Biphenyl	0.12	U	0.015	0.12	mg/Kg
91-58-7	2-Chloronaphthalene	0.12	U	0.016	0.12	mg/Kg
88-74-4	2-Nitroaniline	0.12	U	0.033	0.12	mg/Kg
131-11-3	Dimethylphthalate	0.12	U	0.019	0.12	mg/Kg

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Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

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BF142035.D	1	03/21/25 08:10	03/21/25 17:50	PB167254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	0.12	U	0.020	0.12	mg/Kg
606-20-2	2,6-Dinitrotoluene	0.12	U	0.023	0.12	mg/Kg
99-09-2	3-Nitroaniline	0.12	U	0.032	0.12	mg/Kg
83-32-9	Acenaphthene	0.12	U	0.015	0.12	mg/Kg
51-28-5	2,4-Dinitrophenol	0.23	U	0.16	0.23	mg/Kg
100-02-7	4-Nitrophenol	0.23	U	0.074	0.23	mg/Kg
132-64-9	Dibenzofuran	0.12	U	0.016	0.12	mg/Kg
121-14-2	2,4-Dinitrotoluene	0.12	U	0.035	0.12	mg/Kg
84-66-2	Diethylphthalate	0.12	U	0.020	0.12	mg/Kg
7005-72-3	4-Chlorophenyl-phenylether	0.12	U	0.019	0.12	mg/Kg
86-73-7	Fluorene	0.12	U	0.018	0.12	mg/Kg
100-01-6	4-Nitroaniline	0.12	U	0.045	0.12	mg/Kg
534-52-1	4,6-Dinitro-2-methylphenol	0.23	U	0.071	0.23	mg/Kg
86-30-6	n-Nitrosodiphenylamine	0.12	U	0.023	0.12	mg/Kg
101-55-3	4-Bromophenyl-phenylether	0.12	U	0.019	0.12	mg/Kg
118-74-1	Hexachlorobenzene	0.12	U	0.018	0.12	mg/Kg
1912-24-9	Atrazine	0.12	U	0.024	0.12	mg/Kg
87-86-5	Pentachlorophenol	0.23	U	0.036	0.23	mg/Kg
85-01-8	Phenanthrene	0.12	U	0.015	0.12	mg/Kg
120-12-7	Anthracene	0.12	U	0.023	0.12	mg/Kg
86-74-8	Carbazole	0.12	U	0.022	0.12	mg/Kg
84-74-2	Di-n-butylphthalate	0.12	U	0.033	0.12	mg/Kg
206-44-0	Fluoranthene	0.090	J	0.021	0.12	mg/Kg
129-00-0	Pyrene	0.064	J	0.025	0.12	mg/Kg
85-68-7	Butylbenzylphthalate	0.12	U	0.050	0.12	mg/Kg
91-94-1	3,3-Dichlorobenzidine	0.23	U	0.025	0.23	mg/Kg
56-55-3	Benzo(a)anthracene	0.052	J	0.016	0.12	mg/Kg
218-01-9	Chrysene	0.056	J	0.014	0.12	mg/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	0.12	U	0.041	0.12	mg/Kg
117-84-0	Di-n-octyl phthalate	0.23	U	0.060	0.23	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.085	J	0.013	0.12	mg/Kg

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Lab Sample ID:	Q1610-02	Matrix:	SOIL
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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		

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CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	0.12	U	0.016	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	0.062	J	0.020	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.12	U	0.020	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.12	U	0.019	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.12	U	0.018	0.12	mg/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	0.12	U	0.018	0.12	mg/Kg
123-91-1	1,4-Dioxane	0.12	U	0.031	0.12	mg/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	0.12	U	0.019	0.12	mg/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.6		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	85.0		15 - 107	57%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.7		18 - 107	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.9		20 - 109	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.5		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	48.0		10 - 105	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	139000	6.875			
1146-65-2	Naphthalene-d8	530000	8.151			
15067-26-2	Acenaphthene-d10	270000	9.91			
1517-22-2	Phenanthrene-d10	387000	11.392			
1719-03-5	Chrysene-d12	291000	14.033			
1520-96-3	Perylene-d12	329000	15.504			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	780	J		2.16	ug/Kg
000141-79-7	3-Penten-2-one, 4-methyl-	47.6	A		4.48	ug/Kg
000119-61-9	Benzophenone	98.2	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	480	J		11.9	ug/Kg
	unknown12.316	120	J		12.3	ug/Kg
000057-11-4	Octadecanoic acid	470	J		12.7	ug/Kg
000511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,1	64.2	J		13.4	ug/Kg

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Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
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File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142035.D	1	03/21/25 08:10	03/21/25 17:50	PB167254

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000115-86-6	Triphenyl phosphate	260	J		13.7	ug/Kg
074685-33-9	3-Eicosene, (E)-	95.6	J		13.9	ug/Kg
000593-45-3	Octadecane	110	J		14.5	ug/Kg
000981-40-8	4-(tert-Butyl)phenyl diphenyl phos	330	J		14.7	ug/Kg
007683-64-9	Supraene	78.5	J		14.9	ug/Kg
000544-77-4	Hexadecane, 1-iodo-	400	J		15.2	ug/Kg
000148-03-8	.beta.-Tocopherol	78.1	J		15.8	ug/Kg
065652-41-7	Phosphoric acid, bis[(1,1-dimethyl	290	J		16.0	ug/Kg
000083-47-6	.gamma.-Sitosterol	550	J		17.6	ug/Kg
	unknown18.586	140	J		18.6	ug/Kg
001616-93-9	Olean-12-en-3-ol, acetate, (3.beta	380	J		18.7	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