

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SED-05-0-2
Lab Sample ID: Q3323-05
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.04 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/13/25

Date Collected: 10/09/25
Date Received: 10/09/25
SDG No.: Q3323
Matrix: SOIL
% Solid: 77.4
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	200	U	1	200	430	ug/Kg	10/13/25 18:58	PB170067
108-95-2	Phenol	28.5	U	1	28.5	220	ug/Kg	10/13/25 18:58	PB170067
111-44-4	bis(2-Chloroethyl)ether	31.4	U	1	31.4	220	ug/Kg	10/13/25 18:58	PB170067
95-57-8	2-Chlorophenol	31.5	U	1	31.5	220	ug/Kg	10/13/25 18:58	PB170067
95-48-7	2-Methylphenol	38.6	U	1	38.6	220	ug/Kg	10/13/25 18:58	PB170067
108-60-1	2,2-oxybis(1-Chloropropane)	48.4	U	1	48.4	220	ug/Kg	10/13/25 18:58	PB170067
98-86-2	Acetophenone	38.1	U	1	38.1	220	ug/Kg	10/13/25 18:58	PB170067
65794-96-9	3+4-Methylphenols	53.0	U	1	53.0	430	ug/Kg	10/13/25 18:58	PB170067
621-64-7	n-Nitroso-di-n-propylamine	61.2	U	1	61.2	100	ug/Kg	10/13/25 18:58	PB170067
67-72-1	Hexachloroethane	22.7	U	1	22.7	220	ug/Kg	10/13/25 18:58	PB170067
98-95-3	Nitrobenzene	23.6	U	1	23.6	220	ug/Kg	10/13/25 18:58	PB170067
78-59-1	Isophorone	42.3	U	1	42.3	220	ug/Kg	10/13/25 18:58	PB170067
88-75-5	2-Nitrophenol	75.1	U	1	75.1	220	ug/Kg	10/13/25 18:58	PB170067
105-67-9	2,4-Dimethylphenol	83.6	U	1	83.6	220	ug/Kg	10/13/25 18:58	PB170067
111-91-1	bis(2-Chloroethoxy)methane	39.7	U	1	39.7	220	ug/Kg	10/13/25 18:58	PB170067
120-83-2	2,4-Dichlorophenol	36.5	U	1	36.5	220	ug/Kg	10/13/25 18:58	PB170067
91-20-3	Naphthalene	490		1	29.3	220	ug/Kg	10/13/25 18:58	PB170067
106-47-8	4-Chloroaniline	45.7	U	1	45.7	220	ug/Kg	10/13/25 18:58	PB170067
87-68-3	Hexachlorobutadiene	32.6	U	1	32.6	220	ug/Kg	10/13/25 18:58	PB170067
105-60-2	Caprolactam	67.2	U	1	67.2	430	ug/Kg	10/13/25 18:58	PB170067
59-50-7	4-Chloro-3-methylphenol	37.0	U	1	37.0	220	ug/Kg	10/13/25 18:58	PB170067
91-57-6	2-Methylnaphthalene	130	J	1	33.0	220	ug/Kg	10/13/25 18:58	PB170067
77-47-4	Hexachlorocyclopentadiene	150	U	1	150	430	ug/Kg	10/13/25 18:58	PB170067
88-06-2	2,4,6-Trichlorophenol	25.5	U	1	25.5	220	ug/Kg	10/13/25 18:58	PB170067
95-95-4	2,4,5-Trichlorophenol	37.5	U	1	37.5	220	ug/Kg	10/13/25 18:58	PB170067
92-52-4	1,1-Biphenyl	28.1	U	1	28.1	220	ug/Kg	10/13/25 18:58	PB170067
91-58-7	2-Chloronaphthalene	29.0	U	1	29.0	220	ug/Kg	10/13/25 18:58	PB170067
88-74-4	2-Nitroaniline	62.1	U	1	62.1	220	ug/Kg	10/13/25 18:58	PB170067
131-11-3	Dimethylphthalate	35.0	U	1	35.0	220	ug/Kg	10/13/25 18:58	PB170067
208-96-8	Acenaphthylene	37.3	U	1	37.3	220	ug/Kg	10/13/25 18:58	PB170067
606-20-2	2,6-Dinitrotoluene	43.4	U	1	43.4	220	ug/Kg	10/13/25 18:58	PB170067
99-09-2	3-Nitroaniline	59.4	U	1	59.4	220	ug/Kg	10/13/25 18:58	PB170067
83-32-9	Acenaphthene	300		1	27.5	220	ug/Kg	10/13/25 18:58	PB170067
51-28-5	2,4-Dinitrophenol	300	U	1	300	430	ug/Kg	10/13/25 18:58	PB170067
100-02-7	4-Nitrophenol	140	U	1	140	430	ug/Kg	10/13/25 18:58	PB170067
132-64-9	Dibenzofuran	230		1	29.3	220	ug/Kg	10/13/25 18:58	PB170067
121-14-2	2,4-Dinitrotoluene	64.6	U	1	64.6	220	ug/Kg	10/13/25 18:58	PB170067
84-66-2	Diethylphthalate	36.5	U	1	36.5	220	ug/Kg	10/13/25 18:58	PB170067
7005-72-3	4-Chlorophenyl-phenylether	34.5	U	1	34.5	220	ug/Kg	10/13/25 18:58	PB170067
86-73-7	Fluorene	230		1	32.6	220	ug/Kg	10/13/25 18:58	PB170067
100-01-6	4-Nitroaniline	82.8	U	1	82.8	220	ug/Kg	10/13/25 18:58	PB170067
534-52-1	4,6-Dinitro-2-methylphenol	130	U	1	130	430	ug/Kg	10/13/25 18:58	PB170067

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CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	42.4	U	1	42.4	220	ug/Kg	10/13/25 18:58	PB170067
101-55-3	4-Bromophenyl-phenylether	35.9	U	1	35.9	220	ug/Kg	10/13/25 18:58	PB170067
118-74-1	Hexachlorobenzene	32.6	U	1	32.6	220	ug/Kg	10/13/25 18:58	PB170067
1912-24-9	Atrazine	43.9	U	1	43.9	220	ug/Kg	10/13/25 18:58	PB170067
87-86-5	Pentachlorophenol	66.2	U	1	66.2	430	ug/Kg	10/13/25 18:58	PB170067
85-01-8	Phenanthrene	1800		1	27.0	220	ug/Kg	10/13/25 18:58	PB170067
120-12-7	Anthracene	410		1	43.0	220	ug/Kg	10/13/25 18:58	PB170067
86-74-8	Carbazole	150	J	1	40.3	220	ug/Kg	10/13/25 18:58	PB170067
84-74-2	Di-n-butylphthalate	61.8	U	1	61.8	220	ug/Kg	10/13/25 18:58	PB170067
206-44-0	Fluoranthene	1500		1	38.7	220	ug/Kg	10/13/25 18:58	PB170067
129-00-0	Pyrene	900		1	46.4	220	ug/Kg	10/13/25 18:58	PB170067
85-68-7	Butylbenzylphthalate	92.1	U	1	92.1	220	ug/Kg	10/13/25 18:58	PB170067
91-94-1	3,3-Dichlorobenzidine	47.4	U	1	47.4	430	ug/Kg	10/13/25 18:58	PB170067
56-55-3	Benzo(a)anthracene	570		1	29.7	220	ug/Kg	10/13/25 18:58	PB170067
218-01-9	Chrysene	520		1	25.7	220	ug/Kg	10/13/25 18:58	PB170067
117-81-7	Bis(2-ethylhexyl)phthalate	76.4	U	1	76.4	220	ug/Kg	10/13/25 18:58	PB170067
117-84-0	Di-n-octyl phthalate	110	U	1	110	430	ug/Kg	10/13/25 18:58	PB170067
205-99-2	Benzo(b)fluoranthene	500		1	24.5	220	ug/Kg	10/13/25 18:58	PB170067
207-08-9	Benzo(k)fluoranthene	170	J	1	28.9	220	ug/Kg	10/13/25 18:58	PB170067
50-32-8	Benzo(a)pyrene	450		1	38.1	220	ug/Kg	10/13/25 18:58	PB170067
193-39-5	Indeno(1,2,3-cd)pyrene	160	J	1	37.5	220	ug/Kg	10/13/25 18:58	PB170067
53-70-3	Dibenzo(a,h)anthracene	35.4	U	1	35.4	220	ug/Kg	10/13/25 18:58	PB170067
191-24-2	Benzo(g,h,i)perylene	190	J	1	33.2	220	ug/Kg	10/13/25 18:58	PB170067
95-94-3	1,2,4,5-Tetrachlorobenzene	33.0	U	1	33.0	220	ug/Kg	10/13/25 18:58	PB170067
123-91-1	1,4-Dioxane	58.3	U	1	58.3	220	ug/Kg	10/13/25 18:58	PB170067
58-90-2	2,3,4,6-Tetrachlorophenol	35.4	U	1	35.4	220	ug/Kg	10/13/25 18:58	PB170067

SURROGATES

367-12-4	2-Fluorophenol	74.7			18 - 112	50%	SPK: 150
13127-88-3	Phenol-d6	72.6			15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.0			18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	45.9			20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	56.4			10 - 116	38%	SPK: 150
1718-51-0	Terphenyl-d14	27.7			10 - 105	28%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	108000
1146-65-2	Naphthalene-d8	379000
15067-26-2	Acenaphthene-d10	181000
1517-22-2	Phenanthrene-d10	250000
1719-03-5	Chrysene-d12	234000
1520-96-3	Perylene-d12	306000

TENTATIVE IDENTIFIED COMPOUNDS

90-12-0	1-Methylnaphthalene	110	J		8.97	ug/Kg
000119-61-9	Benzophenone	280	J		10.6	ug/Kg

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Lab Sample ID:	Q3323-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	77.4
Sample Wt/Vol:	30.04 g	Test:	SVOC-TCL BNA -20
Prep Method :	SW3541		
	Level : LOW		
	Final Vol: 1000 uL		
	Prep Date: 10/13/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000132-65-0	Dibenzothiophene	160	J			11.3	ug/Kg		
000949-41-7	1H-Cyclopropa[1]phenanthrene, 1a,	620	J			11.9	ug/Kg		
002531-84-2	Phenanthrene, 2-methyl-	110	J			12.0	ug/Kg		
000203-64-5	4H-Cyclopenta[def]phenanthrene	370	J			12.0	ug/Kg		
000612-94-2	Naphthalene, 2-phenyl-	150	J			12.2	ug/Kg		
000238-84-6	11H-Benzo[a]fluorene	86.4	J			13.2	ug/Kg		
000192-97-2	Benzo[e]pyrene	240	J			15.4	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