

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SED-07-0-2
Lab Sample ID: Q3323-07
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.03 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: 81.2
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	190	U	1	190	410	ug/Kg	10/13/25 19:56	PB170067
108-95-2	Phenol	27.2	U	1	27.2	210	ug/Kg	10/13/25 19:56	PB170067
111-44-4	bis(2-Chloroethyl)ether	29.9	U	1	29.9	210	ug/Kg	10/13/25 19:56	PB170067
95-57-8	2-Chlorophenol	30.0	U	1	30.0	210	ug/Kg	10/13/25 19:56	PB170067
95-48-7	2-Methylphenol	36.8	U	1	36.8	210	ug/Kg	10/13/25 19:56	PB170067
108-60-1	2,2-oxybis(1-Chloropropane)	46.1	U	1	46.1	210	ug/Kg	10/13/25 19:56	PB170067
98-86-2	Acetophenone	36.3	U	1	36.3	210	ug/Kg	10/13/25 19:56	PB170067
65794-96-9	3+4-Methylphenols	50.6	U	1	50.6	410	ug/Kg	10/13/25 19:56	PB170067
621-64-7	n-Nitroso-di-n-propylamine	58.3	U	1	58.3	98.4	ug/Kg	10/13/25 19:56	PB170067
67-72-1	Hexachloroethane	21.7	U	1	21.7	210	ug/Kg	10/13/25 19:56	PB170067
98-95-3	Nitrobenzene	22.5	U	1	22.5	210	ug/Kg	10/13/25 19:56	PB170067
78-59-1	Isophorone	40.4	U	1	40.4	210	ug/Kg	10/13/25 19:56	PB170067
88-75-5	2-Nitrophenol	71.6	U	1	71.6	210	ug/Kg	10/13/25 19:56	PB170067
105-67-9	2,4-Dimethylphenol	79.7	U	1	79.7	210	ug/Kg	10/13/25 19:56	PB170067
111-91-1	bis(2-Chloroethoxy)methane	37.9	U	1	37.9	210	ug/Kg	10/13/25 19:56	PB170067
120-83-2	2,4-Dichlorophenol	34.8	U	1	34.8	210	ug/Kg	10/13/25 19:56	PB170067
91-20-3	Naphthalene	27.9	U	1	27.9	210	ug/Kg	10/13/25 19:56	PB170067
106-47-8	4-Chloroaniline	43.6	U	1	43.6	210	ug/Kg	10/13/25 19:56	PB170067
87-68-3	Hexachlorobutadiene	31.1	U	1	31.1	210	ug/Kg	10/13/25 19:56	PB170067
105-60-2	Caprolactam	64.1	U	1	64.1	410	ug/Kg	10/13/25 19:56	PB170067
59-50-7	4-Chloro-3-methylphenol	35.3	U	1	35.3	210	ug/Kg	10/13/25 19:56	PB170067
91-57-6	2-Methylnaphthalene	31.5	U	1	31.5	210	ug/Kg	10/13/25 19:56	PB170067
77-47-4	Hexachlorocyclopentadiene	140	U	1	140	410	ug/Kg	10/13/25 19:56	PB170067
88-06-2	2,4,6-Trichlorophenol	24.4	U	1	24.4	210	ug/Kg	10/13/25 19:56	PB170067
95-95-4	2,4,5-Trichlorophenol	35.8	U	1	35.8	210	ug/Kg	10/13/25 19:56	PB170067
92-52-4	1,1-Biphenyl	26.8	U	1	26.8	210	ug/Kg	10/13/25 19:56	PB170067
91-58-7	2-Chloronaphthalene	27.7	U	1	27.7	210	ug/Kg	10/13/25 19:56	PB170067
88-74-4	2-Nitroaniline	59.2	U	1	59.2	210	ug/Kg	10/13/25 19:56	PB170067
131-11-3	Dimethylphthalate	33.3	U	1	33.3	210	ug/Kg	10/13/25 19:56	PB170067
208-96-8	Acenaphthylene	35.6	U	1	35.6	210	ug/Kg	10/13/25 19:56	PB170067
606-20-2	2,6-Dinitrotoluene	41.3	U	1	41.3	210	ug/Kg	10/13/25 19:56	PB170067
99-09-2	3-Nitroaniline	56.6	U	1	56.6	210	ug/Kg	10/13/25 19:56	PB170067
83-32-9	Acenaphthene	26.2	U	1	26.2	210	ug/Kg	10/13/25 19:56	PB170067
51-28-5	2,4-Dinitrophenol	280	U	1	280	410	ug/Kg	10/13/25 19:56	PB170067
100-02-7	4-Nitrophenol	130	U	1	130	410	ug/Kg	10/13/25 19:56	PB170067
132-64-9	Dibenzofuran	27.9	U	1	27.9	210	ug/Kg	10/13/25 19:56	PB170067
121-14-2	2,4-Dinitrotoluene	61.6	U	1	61.6	210	ug/Kg	10/13/25 19:56	PB170067
84-66-2	Diethylphthalate	34.8	U	1	34.8	210	ug/Kg	10/13/25 19:56	PB170067
7005-72-3	4-Chlorophenyl-phenylether	32.8	U	1	32.8	210	ug/Kg	10/13/25 19:56	PB170067
86-73-7	Fluorene	31.1	U	1	31.1	210	ug/Kg	10/13/25 19:56	PB170067
100-01-6	4-Nitroaniline	79.0	U	1	79.0	210	ug/Kg	10/13/25 19:56	PB170067
534-52-1	4,6-Dinitro-2-methylphenol	130	U	1	130	410	ug/Kg	10/13/25 19:56	PB170067

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CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	40.5	U	1	40.5	210	ug/Kg	10/13/25 19:56	PB170067
101-55-3	4-Bromophenyl-phenylether	34.2	U	1	34.2	210	ug/Kg	10/13/25 19:56	PB170067
118-74-1	Hexachlorobenzene	31.1	U	1	31.1	210	ug/Kg	10/13/25 19:56	PB170067
1912-24-9	Atrazine	41.8	U	1	41.8	210	ug/Kg	10/13/25 19:56	PB170067
87-86-5	Pentachlorophenol	63.1	U	1	63.1	410	ug/Kg	10/13/25 19:56	PB170067
85-01-8	Phenanthrene	25.7	U	1	25.7	210	ug/Kg	10/13/25 19:56	PB170067
120-12-7	Anthracene	41.0	U	1	41.0	210	ug/Kg	10/13/25 19:56	PB170067
86-74-8	Carbazole	38.4	U	1	38.4	210	ug/Kg	10/13/25 19:56	PB170067
84-74-2	Di-n-butylphthalate	58.9	U	1	58.9	210	ug/Kg	10/13/25 19:56	PB170067
206-44-0	Fluoranthene	170	J	1	36.9	210	ug/Kg	10/13/25 19:56	PB170067
129-00-0	Pyrene	100	J	1	44.3	210	ug/Kg	10/13/25 19:56	PB170067
85-68-7	Butylbenzylphthalate	87.8	U	1	87.8	210	ug/Kg	10/13/25 19:56	PB170067
91-94-1	3,3-Dichlorobenzidine	45.2	U	1	45.2	410	ug/Kg	10/13/25 19:56	PB170067
56-55-3	Benzo(a)anthracene	86.9	J	1	28.3	210	ug/Kg	10/13/25 19:56	PB170067
218-01-9	Chrysene	24.5	U	1	24.5	210	ug/Kg	10/13/25 19:56	PB170067
117-81-7	Bis(2-ethylhexyl)phthalate	72.8	U	1	72.8	210	ug/Kg	10/13/25 19:56	PB170067
117-84-0	Di-n-octyl phthalate	110	U	1	110	410	ug/Kg	10/13/25 19:56	PB170067
205-99-2	Benzo(b)fluoranthene	120	J	1	23.4	210	ug/Kg	10/13/25 19:56	PB170067
207-08-9	Benzo(k)fluoranthene	27.6	U	1	27.6	210	ug/Kg	10/13/25 19:56	PB170067
50-32-8	Benzo(a)pyrene	93.8	J	1	36.3	210	ug/Kg	10/13/25 19:56	PB170067
193-39-5	Indeno(1,2,3-cd)pyrene	35.8	U	1	35.8	210	ug/Kg	10/13/25 19:56	PB170067
53-70-3	Dibenzo(a,h)anthracene	33.7	U	1	33.7	210	ug/Kg	10/13/25 19:56	PB170067
191-24-2	Benzo(g,h,i)perylene	31.6	U	1	31.6	210	ug/Kg	10/13/25 19:56	PB170067
95-94-3	1,2,4,5-Tetrachlorobenzene	31.5	U	1	31.5	210	ug/Kg	10/13/25 19:56	PB170067
123-91-1	1,4-Dioxane	55.6	U	1	55.6	210	ug/Kg	10/13/25 19:56	PB170067
58-90-2	2,3,4,6-Tetrachlorophenol	33.7	U	1	33.7	210	ug/Kg	10/13/25 19:56	PB170067

SURROGATES

367-12-4	2-Fluorophenol	68.5		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	64.1		15 - 107	43%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.2		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	40.3		20 - 109	40%	SPK: 100
118-79-6	2,4,6-Tribromophenol	48.7		10 - 116	32%	SPK: 150
1718-51-0	Terphenyl-d14	22.3		10 - 105	22%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	96800
1146-65-2	Naphthalene-d8	347000
15067-26-2	Acenaphthene-d10	150000
1517-22-2	Phenanthrene-d10	226000
1719-03-5	Chrysene-d12	250000
1520-96-3	Perylene-d12	273000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	180	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	250	J	11.9	ug/Kg

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Lab Sample ID:	Q3323-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.2
Sample Wt/Vol:	30.03 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
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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