

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SED-02-0-2
Lab Sample ID: Q3323-02
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.09 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: 57.3
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	270	U	1	270	570	ug/Kg	10/13/25 18:00	PB170067
108-95-2	Phenol	38.5	U	1	38.5	300	ug/Kg	10/13/25 18:00	PB170067
111-44-4	bis(2-Chloroethyl)ether	42.3	U	1	42.3	300	ug/Kg	10/13/25 18:00	PB170067
95-57-8	2-Chlorophenol	42.5	U	1	42.5	300	ug/Kg	10/13/25 18:00	PB170067
95-48-7	2-Methylphenol	52.0	U	1	52.0	300	ug/Kg	10/13/25 18:00	PB170067
108-60-1	2,2-oxybis(1-Chloropropane)	65.2	U	1	65.2	300	ug/Kg	10/13/25 18:00	PB170067
98-86-2	Acetophenone	51.3	U	1	51.3	300	ug/Kg	10/13/25 18:00	PB170067
65794-96-9	3+4-Methylphenols	71.5	U	1	71.5	570	ug/Kg	10/13/25 18:00	PB170067
621-64-7	n-Nitroso-di-n-propylamine	82.5	U	1	82.5	140	ug/Kg	10/13/25 18:00	PB170067
67-72-1	Hexachloroethane	30.6	U	1	30.6	300	ug/Kg	10/13/25 18:00	PB170067
98-95-3	Nitrobenzene	31.8	U	1	31.8	300	ug/Kg	10/13/25 18:00	PB170067
78-59-1	Isophorone	57.1	U	1	57.1	300	ug/Kg	10/13/25 18:00	PB170067
88-75-5	2-Nitrophenol	100	U	1	100	300	ug/Kg	10/13/25 18:00	PB170067
105-67-9	2,4-Dimethylphenol	110	U	1	110	300	ug/Kg	10/13/25 18:00	PB170067
111-91-1	bis(2-Chloroethoxy)methane	53.6	U	1	53.6	300	ug/Kg	10/13/25 18:00	PB170067
120-83-2	2,4-Dichlorophenol	49.2	U	1	49.2	300	ug/Kg	10/13/25 18:00	PB170067
91-20-3	Naphthalene	39.5	U	1	39.5	300	ug/Kg	10/13/25 18:00	PB170067
106-47-8	4-Chloroaniline	61.6	U	1	61.6	300	ug/Kg	10/13/25 18:00	PB170067
87-68-3	Hexachlorobutadiene	44.0	U	1	44.0	300	ug/Kg	10/13/25 18:00	PB170067
105-60-2	Caprolactam	90.7	U	1	90.7	570	ug/Kg	10/13/25 18:00	PB170067
59-50-7	4-Chloro-3-methylphenol	49.9	U	1	49.9	300	ug/Kg	10/13/25 18:00	PB170067
91-57-6	2-Methylnaphthalene	44.5	U	1	44.5	300	ug/Kg	10/13/25 18:00	PB170067
77-47-4	Hexachlorocyclopentadiene	200	U	1	200	570	ug/Kg	10/13/25 18:00	PB170067
88-06-2	2,4,6-Trichlorophenol	34.5	U	1	34.5	300	ug/Kg	10/13/25 18:00	PB170067
95-95-4	2,4,5-Trichlorophenol	50.6	U	1	50.6	300	ug/Kg	10/13/25 18:00	PB170067
92-52-4	1,1-Biphenyl	37.9	U	1	37.9	300	ug/Kg	10/13/25 18:00	PB170067
91-58-7	2-Chloronaphthalene	39.1	U	1	39.1	300	ug/Kg	10/13/25 18:00	PB170067
88-74-4	2-Nitroaniline	83.7	U	1	83.7	300	ug/Kg	10/13/25 18:00	PB170067
131-11-3	Dimethylphthalate	47.2	U	1	47.2	300	ug/Kg	10/13/25 18:00	PB170067
208-96-8	Acenaphthylene	50.3	U	1	50.3	300	ug/Kg	10/13/25 18:00	PB170067
606-20-2	2,6-Dinitrotoluene	58.5	U	1	58.5	300	ug/Kg	10/13/25 18:00	PB170067
99-09-2	3-Nitroaniline	80.0	U	1	80.0	300	ug/Kg	10/13/25 18:00	PB170067
83-32-9	Acenaphthene	37.1	U	1	37.1	300	ug/Kg	10/13/25 18:00	PB170067
51-28-5	2,4-Dinitrophenol	400	U	1	400	570	ug/Kg	10/13/25 18:00	PB170067
100-02-7	4-Nitrophenol	190	U	1	190	570	ug/Kg	10/13/25 18:00	PB170067
132-64-9	Dibenzofuran	39.5	U	1	39.5	300	ug/Kg	10/13/25 18:00	PB170067
121-14-2	2,4-Dinitrotoluene	87.2	U	1	87.2	300	ug/Kg	10/13/25 18:00	PB170067
84-66-2	Diethylphthalate	49.2	U	1	49.2	300	ug/Kg	10/13/25 18:00	PB170067
7005-72-3	4-Chlorophenyl-phenylether	46.5	U	1	46.5	300	ug/Kg	10/13/25 18:00	PB170067
86-73-7	Fluorene	44.0	U	1	44.0	300	ug/Kg	10/13/25 18:00	PB170067
100-01-6	4-Nitroaniline	110	U	1	110	300	ug/Kg	10/13/25 18:00	PB170067
534-52-1	4,6-Dinitro-2-methylphenol	180	U	1	180	570	ug/Kg	10/13/25 18:00	PB170067

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SDG No.: Q3323
Matrix: SOIL
% Solid: 57.3
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	57.2	U	1	57.2	300	ug/Kg	10/13/25 18:00	PB170067
101-55-3	4-Bromophenyl-phenylether	48.4	U	1	48.4	300	ug/Kg	10/13/25 18:00	PB170067
118-74-1	Hexachlorobenzene	44.0	U	1	44.0	300	ug/Kg	10/13/25 18:00	PB170067
1912-24-9	Atrazine	59.2	U	1	59.2	300	ug/Kg	10/13/25 18:00	PB170067
87-86-5	Pentachlorophenol	89.3	U	1	89.3	570	ug/Kg	10/13/25 18:00	PB170067
85-01-8	Phenanthrene	290	J	1	36.4	300	ug/Kg	10/13/25 18:00	PB170067
120-12-7	Anthracene	57.9	U	1	57.9	300	ug/Kg	10/13/25 18:00	PB170067
86-74-8	Carbazole	54.3	U	1	54.3	300	ug/Kg	10/13/25 18:00	PB170067
84-74-2	Di-n-butylphthalate	83.3	U	1	83.3	300	ug/Kg	10/13/25 18:00	PB170067
206-44-0	Fluoranthene	610		1	52.2	300	ug/Kg	10/13/25 18:00	PB170067
129-00-0	Pyrene	370		1	62.6	300	ug/Kg	10/13/25 18:00	PB170067
85-68-7	Butylbenzylphthalate	120	U	1	120	300	ug/Kg	10/13/25 18:00	PB170067
91-94-1	3,3-Dichlorobenzidine	63.9	U	1	63.9	570	ug/Kg	10/13/25 18:00	PB170067
56-55-3	Benzo(a)anthracene	260	J	1	40.0	300	ug/Kg	10/13/25 18:00	PB170067
218-01-9	Chrysene	280	J	1	34.6	300	ug/Kg	10/13/25 18:00	PB170067
117-81-7	Bis(2-ethylhexyl)phthalate	120	J	1	100	300	ug/Kg	10/13/25 18:00	PB170067
117-84-0	Di-n-octyl phthalate	150	U	1	150	570	ug/Kg	10/13/25 18:00	PB170067
205-99-2	Benzo(b)fluoranthene	290	J	1	33.1	300	ug/Kg	10/13/25 18:00	PB170067
207-08-9	Benzo(k)fluoranthene	39.0	U	1	39.0	300	ug/Kg	10/13/25 18:00	PB170067
50-32-8	Benzo(a)pyrene	220	J	1	51.3	300	ug/Kg	10/13/25 18:00	PB170067
193-39-5	Indeno(1,2,3-cd)pyrene	50.6	U	1	50.6	300	ug/Kg	10/13/25 18:00	PB170067
53-70-3	Dibenzo(a,h)anthracene	47.7	U	1	47.7	300	ug/Kg	10/13/25 18:00	PB170067
191-24-2	Benzo(g,h,i)perylene	44.7	U	1	44.7	300	ug/Kg	10/13/25 18:00	PB170067
95-94-3	1,2,4,5-Tetrachlorobenzene	44.5	U	1	44.5	300	ug/Kg	10/13/25 18:00	PB170067
123-91-1	1,4-Dioxane	78.6	U	1	78.6	300	ug/Kg	10/13/25 18:00	PB170067
58-90-2	2,3,4,6-Tetrachlorophenol	47.7	U	1	47.7	300	ug/Kg	10/13/25 18:00	PB170067

SURROGATES

367-12-4	2-Fluorophenol	91.0		18 - 112	61%	SPK: 150
13127-88-3	Phenol-d6	90.0		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.0		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.5		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	71.2		10 - 116	47%	SPK: 150
1718-51-0	Terphenyl-d14	37.6		10 - 105	38%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	102000
1146-65-2	Naphthalene-d8	378000
15067-26-2	Acenaphthene-d10	185000
1517-22-2	Phenanthrene-d10	262000
1719-03-5	Chrysene-d12	224000
1520-96-3	Perylene-d12	291000

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	430	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	390	J	11.9	ug/Kg

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Lab Sample ID:	Q3323-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	57.3
Sample Wt/Vol:	30.09 g	Final Vol:	1000 uL
Prep Method :	SW3541	Test:	SVOC-TCL BNA -20
	Level : LOW		
	Prep Date: 10/13/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
000192-97-2	Benzo[e]pyrene	150	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