

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SS-01-0-1MSD
Lab Sample ID: Q3310-01MSD
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.03 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/10/25

Date Collected: 10/07/25
Date Received: 10/08/25
SDG No.: Q3310
Matrix: SOIL
% Solid: 65.3
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
100-52-7	Benzaldehyde	1500		1	240	500	ug/Kg	10/10/25 17:18	PB170055
108-95-2	Phenol	2400		1	33.8	260	ug/Kg	10/10/25 17:18	PB170055
111-44-4	bis(2-Chloroethyl)ether	2300		1	37.2	260	ug/Kg	10/10/25 17:18	PB170055
95-57-8	2-Chlorophenol	2300		1	37.3	260	ug/Kg	10/10/25 17:18	PB170055
95-48-7	2-Methylphenol	2300		1	45.7	260	ug/Kg	10/10/25 17:18	PB170055
108-60-1	2,2-oxybis(1-Chloropropane)	2400		1	57.4	260	ug/Kg	10/10/25 17:18	PB170055
98-86-2	Acetophenone	2500		1	45.1	260	ug/Kg	10/10/25 17:18	PB170055
65794-96-9	3+4-Methylphenols	2200		1	62.9	500	ug/Kg	10/10/25 17:18	PB170055
621-64-7	n-Nitroso-di-n-propylamine	2200		1	72.5	120	ug/Kg	10/10/25 17:18	PB170055
67-72-1	Hexachloroethane	2200		1	26.9	260	ug/Kg	10/10/25 17:18	PB170055
98-95-3	Nitrobenzene	2500		1	28.0	260	ug/Kg	10/10/25 17:18	PB170055
78-59-1	Isophorone	2400		1	50.2	260	ug/Kg	10/10/25 17:18	PB170055
88-75-5	2-Nitrophenol	2600		1	89.0	260	ug/Kg	10/10/25 17:18	PB170055
105-67-9	2,4-Dimethylphenol	2600		1	99.1	260	ug/Kg	10/10/25 17:18	PB170055
111-91-1	bis(2-Chloroethoxy)methane	2300		1	47.1	260	ug/Kg	10/10/25 17:18	PB170055
120-83-2	2,4-Dichlorophenol	2300		1	43.3	260	ug/Kg	10/10/25 17:18	PB170055
91-20-3	Naphthalene	2400		1	34.7	260	ug/Kg	10/10/25 17:18	PB170055
106-47-8	4-Chloroaniline	900		1	54.2	260	ug/Kg	10/10/25 17:18	PB170055
87-68-3	Hexachlorobutadiene	2300		1	38.7	260	ug/Kg	10/10/25 17:18	PB170055
105-60-2	Caprolactam	2300		1	79.7	500	ug/Kg	10/10/25 17:18	PB170055
59-50-7	4-Chloro-3-methylphenol	2200		1	43.9	260	ug/Kg	10/10/25 17:18	PB170055
91-57-6	2-Methylnaphthalene	2100		1	39.2	260	ug/Kg	10/10/25 17:18	PB170055
77-47-4	Hexachlorocyclopentadiene	2200		1	180	500	ug/Kg	10/10/25 17:18	PB170055
88-06-2	2,4,6-Trichlorophenol	2400		1	30.3	260	ug/Kg	10/10/25 17:18	PB170055
95-95-4	2,4,5-Trichlorophenol	2300		1	44.5	260	ug/Kg	10/10/25 17:18	PB170055
92-52-4	1,1-Biphenyl	2800		1	33.4	260	ug/Kg	10/10/25 17:18	PB170055
91-58-7	2-Chloronaphthalene	2400		1	34.4	260	ug/Kg	10/10/25 17:18	PB170055
88-74-4	2-Nitroaniline	2800		1	73.6	260	ug/Kg	10/10/25 17:18	PB170055
131-11-3	Dimethylphthalate	2500		1	41.5	260	ug/Kg	10/10/25 17:18	PB170055
208-96-8	Acenaphthylene	2700		1	44.2	260	ug/Kg	10/10/25 17:18	PB170055
606-20-2	2,6-Dinitrotoluene	2800		1	51.4	260	ug/Kg	10/10/25 17:18	PB170055
99-09-2	3-Nitroaniline	1900		1	70.4	260	ug/Kg	10/10/25 17:18	PB170055
83-32-9	Acenaphthene	2300		1	32.6	260	ug/Kg	10/10/25 17:18	PB170055
51-28-5	2,4-Dinitrophenol	720		1	350	500	ug/Kg	10/10/25 17:18	PB170055
100-02-7	4-Nitrophenol	4200	E	1	160	500	ug/Kg	10/10/25 17:18	PB170055
132-64-9	Dibenzofuran	2400		1	34.7	260	ug/Kg	10/10/25 17:18	PB170055
121-14-2	2,4-Dinitrotoluene	2600		1	76.6	260	ug/Kg	10/10/25 17:18	PB170055
84-66-2	Diethylphthalate	2400		1	43.3	260	ug/Kg	10/10/25 17:18	PB170055
7005-72-3	4-Chlorophenyl-phenylether	2300		1	40.8	260	ug/Kg	10/10/25 17:18	PB170055
86-73-7	Fluorene	2300		1	38.7	260	ug/Kg	10/10/25 17:18	PB170055
100-01-6	4-Nitroaniline	2000		1	98.2	260	ug/Kg	10/10/25 17:18	PB170055
534-52-1	4,6-Dinitro-2-methylphenol	420	J	1	160	500	ug/Kg	10/10/25 17:18	PB170055

Report of Analysis

Client: Langan Engineering and Environmental Services, Inc
Project: Con Edison Richmond Terrace
Client Sample ID: SS-01-0-1MSD
Lab Sample ID: Q3310-01MSD
Analytical Method: 8270E Level : LOW
Sample Wt/Vol: 30.03 g Final Vol: 1000 uL
Prep Method : SW3541 Prep Date: 10/10/25

Date Collected: 10/07/25
Date Received: 10/08/25
SDG No.: Q3310
Matrix: SOIL
% Solid: 65.3
Test: SVOC-TCL BNA -20

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
86-30-6	n-Nitrosodiphenylamine	2800		1	50.3	260	ug/Kg	10/10/25 17:18	PB170055
101-55-3	4-Bromophenyl-phenylether	2600		1	42.5	260	ug/Kg	10/10/25 17:18	PB170055
118-74-1	Hexachlorobenzene	2400		1	38.7	260	ug/Kg	10/10/25 17:18	PB170055
1912-24-9	Atrazine	2600		1	52.0	260	ug/Kg	10/10/25 17:18	PB170055
87-86-5	Pentachlorophenol	4700	E	1	78.5	500	ug/Kg	10/10/25 17:18	PB170055
85-01-8	Phenanthrene	3900		1	32.0	260	ug/Kg	10/10/25 17:18	PB170055
120-12-7	Anthracene	2800		1	50.9	260	ug/Kg	10/10/25 17:18	PB170055
86-74-8	Carbazole	2800		1	47.7	260	ug/Kg	10/10/25 17:18	PB170055
84-74-2	Di-n-butylphthalate	2700		1	73.3	260	ug/Kg	10/10/25 17:18	PB170055
206-44-0	Fluoranthene	4400	E	1	45.9	260	ug/Kg	10/10/25 17:18	PB170055
129-00-0	Pyrene	3000		1	55.1	260	ug/Kg	10/10/25 17:18	PB170055
85-68-7	Butylbenzylphthalate	2600		1	110	260	ug/Kg	10/10/25 17:18	PB170055
91-94-1	3,3-Dichlorobenzidine	2400		1	56.1	500	ug/Kg	10/10/25 17:18	PB170055
56-55-3	Benzo(a)anthracene	3400		1	35.2	260	ug/Kg	10/10/25 17:18	PB170055
218-01-9	Chrysene	3200		1	30.4	260	ug/Kg	10/10/25 17:18	PB170055
117-81-7	Bis(2-ethylhexyl)phthalate	2900		1	90.6	260	ug/Kg	10/10/25 17:18	PB170055
117-84-0	Di-n-octyl phthalate	3200		1	130	500	ug/Kg	10/10/25 17:18	PB170055
205-99-2	Benzo(b)fluoranthene	3500		1	29.1	260	ug/Kg	10/10/25 17:18	PB170055
207-08-9	Benzo(k)fluoranthene	2700		1	34.3	260	ug/Kg	10/10/25 17:18	PB170055
50-32-8	Benzo(a)pyrene	3300		1	45.1	260	ug/Kg	10/10/25 17:18	PB170055
193-39-5	Indeno(1,2,3-cd)pyrene	2200		1	44.5	260	ug/Kg	10/10/25 17:18	PB170055
53-70-3	Dibenzo(a,h)anthracene	1900		1	41.9	260	ug/Kg	10/10/25 17:18	PB170055
191-24-2	Benzo(g,h,i)perylene	2200		1	39.3	260	ug/Kg	10/10/25 17:18	PB170055
95-94-3	1,2,4,5-Tetrachlorobenzene	2800		1	39.2	260	ug/Kg	10/10/25 17:18	PB170055
123-91-1	1,4-Dioxane	2200		1	69.1	260	ug/Kg	10/10/25 17:18	PB170055
58-90-2	2,3,4,6-Tetrachlorophenol	2200		1	41.9	260	ug/Kg	10/10/25 17:18	PB170055

SURROGATES

367-12-4	2-Fluorophenol	81.9		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	80.9		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.4		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.4		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	66.1		10 - 116	44%	SPK: 150
1718-51-0	Terphenyl-d14	35.9		10 - 105	36%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	118000
1146-65-2	Naphthalene-d8	432000
15067-26-2	Acenaphthene-d10	206000
1517-22-2	Phenanthrene-d10	294000
1719-03-5	Chrysene-d12	250000
1520-96-3	Perylene-d12	234000

Report of Analysis

Client:	Langan Engineering and Environmental Services, Inc	Date Collected:	10/07/25
Project:	Con Edison Richmond Terrace	Date Received:	10/08/25
Client Sample ID:	SS-01-0-1MSD	SDG No.:	Q3310
Lab Sample ID:	Q3310-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	65.3
	Level : LOW	Test:	SVOC-TCL BNA -20
Sample Wt/Vol:	30.03 g		
	Final Vol: 1000 uL		
Prep Method :	SW3541		
	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
------------	-----------	-------	------	----	-----	------------	-------	-----------	--------------

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