

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37B	SDG No.:	O1233
Lab Sample ID:	O1233-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.5
Sample Wt/Vol:	30.08 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
BF132174.D	1	01/20/23 12:30	01/20/23 22:13	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	390	ug/Kg
108-95-2	Phenol	80.9	U	80.9	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	95.9	U	95.9	200	ug/Kg
95-57-8	2-Chlorophenol	81.6	U	81.6	200	ug/Kg
95-48-7	2-Methylphenol	130	U	130	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	200	ug/Kg
98-86-2	Acetophenone	95.7	U	95.7	200	ug/Kg
65794-96-9	3+4-Methylphenols	120	U	120	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	90.9	U	90.9	95.6	ug/Kg
67-72-1	Hexachloroethane	88.0	U	88.0	200	ug/Kg
98-95-3	Nitrobenzene	88.3	U	88.3	200	ug/Kg
78-59-1	Isophorone	79.5	U	79.5	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	97.6	U	97.6	200	ug/Kg
91-20-3	Naphthalene	88.3	U	88.3	200	ug/Kg
106-47-8	4-Chloroaniline	120	U	120	200	ug/Kg
87-68-3	Hexachlorobutadiene	120	U	120	200	ug/Kg
105-60-2	Caprolactam	120	U	120	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	94.0	U	94.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	89.6	U	89.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	210	U	210	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	100	U	100	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	99.9	U	99.9	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	200	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	200	ug/Kg
131-11-3	Dimethylphthalate	96.6	U	96.6	200	ug/Kg
208-96-8	Acenaphthylene	82.1	U	82.1	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.3	U	93.3	200	ug/Kg

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37B	SDG No.:	O1233
Lab Sample ID:	O1233-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.5
Sample Wt/Vol:	30.08 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
BF132174.D	1	01/20/23 12:30	01/20/23 22:13	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	120	U	120	200	ug/Kg
83-32-9	Acenaphthene	94.2	U	94.2	200	ug/Kg
51-28-5	2,4-Dinitrophenol	150	U	150	390	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	390	ug/Kg
132-64-9	Dibenzofuran	88.6	U	88.6	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	200	ug/Kg
84-66-2	Diethylphthalate	96.2	U	96.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	200	ug/Kg
86-73-7	Fluorene	94.1	U	94.1	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	98.2	U	98.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	120	U	120	200	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	390	ug/Kg
85-01-8	Phenanthrene	99.9	U	99.9	200	ug/Kg
120-12-7	Anthracene	100	U	100	200	ug/Kg
86-74-8	Carbazole	100	U	100	200	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	200	ug/Kg
206-44-0	Fluoranthene	95.3	U	95.3	200	ug/Kg
129-00-0	Pyrene	88.6	U	88.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	98.8	U	98.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	390	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	200	ug/Kg
218-01-9	Chrysene	100	U	100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	J	110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	82.4	U	82.4	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	87.9	U	87.9	200	ug/Kg
50-32-8	Benzo(a)pyrene	80.9	U	80.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	U	120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	120	U	120	200	ug/Kg

Report of Analysis

Client:	Louis Berger U.S., Inc., A WSP Company	Date Collected:	01/18/23
Project:	NYCDDC Phase II SCI Arthur Kill Road CEQR	Date Received:	01/19/23
Client Sample ID:	B-P37B	SDG No.:	O1233
Lab Sample ID:	O1233-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.5
Sample Wt/Vol:	30.08 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
BF132174.D	1	01/20/23 12:30	01/20/23 22:13	PB150378

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	120	U	120	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	200	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	97.0	U	97.0	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	104		18 - 112	69%	SPK: 150
13127-88-3	Phenol-d6	106		21 - 104	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.7		27 - 109	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.8		30 - 103	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		10 - 121	76%	SPK: 150
1718-51-0	Terphenyl-d14	67.0		21 - 107	67%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	178000	7.089	
1146-65-2	Naphthalene-d8	632000	8.378	
15067-26-2	Acenaphthene-d10	342000	10.142	
1517-22-2	Phenanthrene-d10	670000	11.636	
1719-03-5	Chrysene-d12	444000	14.301	
1520-96-3	Perylene-d12	376000	15.895	

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1400	AB	5.34	ug/Kg
000119-61-9	Benzophenone	210	J	10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J	12.1	ug/Kg
000057-11-4	Octadecanoic acid	130	J	12.9	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