

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	SOIL-DUP-2	SDG No.:	Q2820
Lab Sample ID:	Q2820-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	48.4
Sample Wt/Vol:	30.05 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
BP025408.D	1	08/13/25 09:05	08/15/25 01:00	PB169228

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	560	U	320	560	680	ug/Kg
108-95-2	Phenol	270	U	45.6	270	350	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	270	U	50.1	270	350	ug/Kg
95-57-8	2-Chlorophenol	270	U	50.3	270	350	ug/Kg
95-48-7	2-Methylphenol	270	U	61.7	270	350	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	270	U	77.4	270	350	ug/Kg
98-86-2	Acetophenone	270	U	60.8	270	350	ug/Kg
65794-96-9	3+4-Methylphenols	560	U	84.8	560	680	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	170	U	97.8	170	170	ug/Kg
67-72-1	Hexachloroethane	270	U	36.3	270	350	ug/Kg
98-95-3	Nitrobenzene	270	U	37.7	270	350	ug/Kg
78-59-1	Isophorone	270	U	67.7	270	350	ug/Kg
88-75-5	2-Nitrophenol	270	U	120	270	350	ug/Kg
105-67-9	2,4-Dimethylphenol	270	U	130	270	350	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	270	U	63.5	270	350	ug/Kg
120-83-2	2,4-Dichlorophenol	270	U	58.4	270	350	ug/Kg
91-20-3	Naphthalene	270	U	46.8	270	350	ug/Kg
106-47-8	4-Chloroaniline	270	U	73.0	270	350	ug/Kg
87-68-3	Hexachlorobutadiene	270	U	52.2	270	350	ug/Kg
105-60-2	Caprolactam	560	U	110	560	680	ug/Kg
59-50-7	4-Chloro-3-methylphenol	270	U	59.2	270	350	ug/Kg
91-57-6	2-Methylnaphthalene	270	U	52.8	270	350	ug/Kg
77-47-4	Hexachlorocyclopentadiene	560	U	240	560	680	ug/Kg
88-06-2	2,4,6-Trichlorophenol	270	U	40.8	270	350	ug/Kg
95-95-4	2,4,5-Trichlorophenol	270	U	60.0	270	350	ug/Kg
92-52-4	1,1-Biphenyl	270	U	45.0	270	350	ug/Kg
91-58-7	2-Chloronaphthalene	270	U	46.4	270	350	ug/Kg
88-74-4	2-Nitroaniline	270	U	99.2	270	350	ug/Kg
131-11-3	Dimethylphthalate	270	U	55.9	270	350	ug/Kg

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208-96-8	Acenaphthylene	270	U	59.6	270	350	ug/Kg
606-20-2	2,6-Dinitrotoluene	270	U	69.3	270	350	ug/Kg
99-09-2	3-Nitroaniline	270	U	94.9	270	350	ug/Kg
83-32-9	Acenaphthene	270	U	43.9	270	350	ug/Kg
51-28-5	2,4-Dinitrophenol	560	U	470	560	680	ug/Kg
100-02-7	4-Nitrophenol	560	U	220	560	680	ug/Kg
132-64-9	Dibenzofuran	270	U	46.8	270	350	ug/Kg
121-14-2	2,4-Dinitrotoluene	270	U	100	270	350	ug/Kg
84-66-2	Diethylphthalate	270	U	58.4	270	350	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	270	U	55.1	270	350	ug/Kg
86-73-7	Fluorene	270	U	52.2	270	350	ug/Kg
100-01-6	4-Nitroaniline	270	U	130	270	350	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	560	U	210	560	680	ug/Kg
86-30-6	n-Nitrosodiphenylamine	270	U	67.9	270	350	ug/Kg
101-55-3	4-Bromophenyl-phenylether	270	U	57.3	270	350	ug/Kg
118-74-1	Hexachlorobenzene	270	U	52.2	270	350	ug/Kg
1912-24-9	Atrazine	270	U	70.1	270	350	ug/Kg
87-86-5	Pentachlorophenol	560	U	110	560	680	ug/Kg
85-01-8	Phenanthrene	270	U	43.1	270	350	ug/Kg
120-12-7	Anthracene	270	U	68.7	270	350	ug/Kg
86-74-8	Carbazole	270	U	64.4	270	350	ug/Kg
84-74-2	Di-n-butylphthalate	270	U	98.8	270	350	ug/Kg
206-44-0	Fluoranthene	270	U	61.9	270	350	ug/Kg
129-00-0	Pyrene	270	U	74.3	270	350	ug/Kg
85-68-7	Butylbenzylphthalate	270	U	150	270	350	ug/Kg
91-94-1	3,3-Dichlorobenzidine	560	U	75.7	560	680	ug/Kg
56-55-3	Benzo(a)anthracene	270	U	47.4	270	350	ug/Kg
218-01-9	Chrysene	270	U	41.0	270	350	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	270	U	120	270	350	ug/Kg
117-84-0	Di-n-octyl phthalate	560	U	180	560	680	ug/Kg
205-99-2	Benzo(b)fluoranthene	270	U	39.2	270	350	ug/Kg

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50-32-8	Benzo(a)pyrene	270	U	60.8	270	350	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	270	U	60.0	270	350	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	270	U	56.5	270	350	ug/Kg
191-24-2	Benzo(g,h,i)perylene	270	U	53.0	270	350	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	270	U	52.8	270	350	ug/Kg
123-91-1	1,4-Dioxane	270	U	93.2	270	350	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	270	U	56.5	270	350	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	123		35 - 115		82%	SPK: 150
13127-88-3	Phenol-d6	127		34 - 127		85%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.9		37 - 122		75%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.4		44 - 115		66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		39 - 132		89%	SPK: 150
1718-51-0	Terphenyl-d14	66.5		54 - 127		67%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	131000	7.79
1146-65-2	Naphthalene-d8	528000	10.555
15067-26-2	Acenaphthene-d10	362000	14.401
1517-22-2	Phenanthrene-d10	769000	17.201
1719-03-5	Chrysene-d12	879000	21.636
1520-96-3	Perylene-d12	983000	24.983

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	3200	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	540	AB		4.95	ug/Kg
000119-61-9	Benzophenone	490	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	1000	J		18.1	ug/Kg
000057-11-4	Octadecanoic acid	590	J		19.5	ug/Kg
053057-53-7	1,21-Docosadiene	570	J		21.0	ug/Kg
010192-32-2	1-Tetracosene	680	J		21.3	ug/Kg

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014811-95-1	1,19-Eicosadiene	570	J			22.2	ug/Kg
018835-33-1	1-Hexacosene	240	J			22.6	ug/Kg
026627-85-0	Hexacosanal	210	J			23.7	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