

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/07/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	518R-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.6
Sample Wt/Vol:	30.04 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
BP025388.D	1	08/12/25 09:15	08/13/25 17:32	PB169210

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	340	U	200	340	420	ug/Kg
108-95-2	Phenol	170	U	28.1	170	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	30.9	170	220	ug/Kg
95-57-8	2-Chlorophenol	170	U	31.0	170	220	ug/Kg
95-48-7	2-Methylphenol	170	U	38.0	170	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	47.6	170	220	ug/Kg
98-86-2	Acetophenone	170	U	37.5	170	220	ug/Kg
65794-96-9	3+4-Methylphenols	340	U	52.2	340	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	60.2	100	100	ug/Kg
67-72-1	Hexachloroethane	170	U	22.4	170	220	ug/Kg
98-95-3	Nitrobenzene	170	U	23.3	170	220	ug/Kg
78-59-1	Isophorone	170	U	41.7	170	220	ug/Kg
88-75-5	2-Nitrophenol	170	U	73.9	170	220	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	82.3	170	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	39.1	170	220	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	36.0	170	220	ug/Kg
91-20-3	Naphthalene	170	U	28.8	170	220	ug/Kg
106-47-8	4-Chloroaniline	170	U	45.0	170	220	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	32.1	170	220	ug/Kg
105-60-2	Caprolactam	340	U	66.2	340	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	36.5	170	220	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	32.5	170	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	340	U	150	340	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	25.2	170	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	37.0	170	220	ug/Kg
92-52-4	1,1-Biphenyl	170	U	27.7	170	220	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	28.6	170	220	ug/Kg
88-74-4	2-Nitroaniline	170	U	61.1	170	220	ug/Kg
131-11-3	Dimethylphthalate	170	U	34.4	170	220	ug/Kg

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208-96-8	Acenaphthylene	170	U	36.7	170	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	42.7	170	220	ug/Kg
99-09-2	3-Nitroaniline	170	U	58.4	170	220	ug/Kg
83-32-9	Acenaphthene	170	U	27.1	170	220	ug/Kg
51-28-5	2,4-Dinitrophenol	340	U	290	340	420	ug/Kg
100-02-7	4-Nitrophenol	340	U	140	340	420	ug/Kg
132-64-9	Dibenzofuran	170	U	28.8	170	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	63.7	170	220	ug/Kg
84-66-2	Diethylphthalate	170	U	36.0	170	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	33.9	170	220	ug/Kg
86-73-7	Fluorene	170	U	32.1	170	220	ug/Kg
100-01-6	4-Nitroaniline	170	U	81.6	170	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	340	U	130	340	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	41.8	170	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	35.3	170	220	ug/Kg
118-74-1	Hexachlorobenzene	170	U	32.1	170	220	ug/Kg
1912-24-9	Atrazine	170	U	43.2	170	220	ug/Kg
87-86-5	Pentachlorophenol	340	U	65.2	340	420	ug/Kg
85-01-8	Phenanthrene	170	U	26.6	170	220	ug/Kg
120-12-7	Anthracene	170	U	42.3	170	220	ug/Kg
86-74-8	Carbazole	170	U	39.6	170	220	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	60.9	170	220	ug/Kg
206-44-0	Fluoranthene	310		38.1	170	220	ug/Kg
129-00-0	Pyrene	300		45.7	170	220	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	90.7	170	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	340	U	46.6	340	420	ug/Kg
56-55-3	Benzo(a)anthracene	180	J	29.2	170	220	ug/Kg
218-01-9	Chrysene	170	J	25.3	170	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	75.2	170	220	ug/Kg
117-84-0	Di-n-octyl phthalate	340	U	110	340	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	240		24.1	170	220	ug/Kg

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207-08-9	Benzo(k)fluoranthene	88.0	J	28.5	170	220	ug/Kg
50-32-8	Benzo(a)pyrene	180	J	37.5	170	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	37.0	170	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	34.8	170	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	J	32.7	170	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	32.5	170	220	ug/Kg
123-91-1	1,4-Dioxane	170	U	57.4	170	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	34.8	170	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	73.2		35 - 115		49%	SPK: 150
13127-88-3	Phenol-d6	67.7		34 - 127		45%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.9		37 - 122		49%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.9	*	44 - 115		43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.9		39 - 132		61%	SPK: 150
1718-51-0	Terphenyl-d14	37.9	*	54 - 127		38%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	213000	7.796
1146-65-2	Naphthalene-d8	845000	10.572
15067-26-2	Acenaphthene-d10	533000	14.419
1517-22-2	Phenanthrene-d10	1010000	17.219
1719-03-5	Chrysene-d12	1020000	21.677
1520-96-3	Perylene-d12	1160000	25.071

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	760	J		3.05	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		4.96	ug/Kg
000119-61-9	Benzophenone	180	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	660	J		18.2	ug/Kg
000057-11-4	Octadecanoic acid	150	J		19.5	ug/Kg
959092-08-1	Pentafluoropropionic acid, pentade	220	J		21.3	ug/Kg

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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