

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	88H-EMS	SDG No.:	Q2820
Lab Sample ID:	Q2820-17MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.6
Sample Wt/Vol:	30.03 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
BP025415.D	1	08/13/25 09:05	08/15/25 05:48	PB169228

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	1100		190	330	400	ug/Kg
108-95-2	Phenol	1800		26.7	160	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		29.4	160	210	ug/Kg
95-57-8	2-Chlorophenol	1800		29.5	160	210	ug/Kg
95-48-7	2-Methylphenol	1800		36.2	160	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		45.4	160	210	ug/Kg
98-86-2	Acetophenone	1700		35.7	160	210	ug/Kg
65794-96-9	3+4-Methylphenols	1800		49.7	330	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		57.3	96.8	96.8	ug/Kg
67-72-1	Hexachloroethane	1700		21.3	160	210	ug/Kg
98-95-3	Nitrobenzene	1700		22.1	160	210	ug/Kg
78-59-1	Isophorone	1700		39.7	160	210	ug/Kg
88-75-5	2-Nitrophenol	1800		70.4	160	210	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		78.4	160	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		37.3	160	210	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		34.2	160	210	ug/Kg
91-20-3	Naphthalene	1700		27.5	160	210	ug/Kg
106-47-8	4-Chloroaniline	930		42.8	160	210	ug/Kg
87-68-3	Hexachlorobutadiene	1700		30.6	160	210	ug/Kg
105-60-2	Caprolactam	1800		63.0	330	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		34.7	160	210	ug/Kg
91-57-6	2-Methylnaphthalene	1700		31.0	160	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3500	E	140	330	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		23.9	160	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		35.2	160	210	ug/Kg
92-52-4	1,1-Biphenyl	1800		26.4	160	210	ug/Kg
91-58-7	2-Chloronaphthalene	1800		27.2	160	210	ug/Kg
88-74-4	2-Nitroaniline	1900		58.2	160	210	ug/Kg
131-11-3	Dimethylphthalate	1800		32.8	160	210	ug/Kg

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208-96-8	Acenaphthylene	1800		35.0	160	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		40.6	160	210	ug/Kg
99-09-2	3-Nitroaniline	1200		55.6	160	210	ug/Kg
83-32-9	Acenaphthene	1800		25.8	160	210	ug/Kg
51-28-5	2,4-Dinitrophenol	3900	E	280	330	400	ug/Kg
100-02-7	4-Nitrophenol	3800	E	130	330	400	ug/Kg
132-64-9	Dibenzofuran	1800		27.5	160	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		60.6	160	210	ug/Kg
84-66-2	Diethylphthalate	1800		34.2	160	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		32.3	160	210	ug/Kg
86-73-7	Fluorene	1700		30.6	160	210	ug/Kg
100-01-6	4-Nitroaniline	1700		77.6	160	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	330	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		39.8	160	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		33.6	160	210	ug/Kg
118-74-1	Hexachlorobenzene	1800		30.6	160	210	ug/Kg
1912-24-9	Atrazine	1800		41.1	160	210	ug/Kg
87-86-5	Pentachlorophenol	3800	E	62.0	330	400	ug/Kg
85-01-8	Phenanthrene	1800		25.3	160	210	ug/Kg
120-12-7	Anthracene	1800		40.3	160	210	ug/Kg
86-74-8	Carbazole	1800		37.7	160	210	ug/Kg
84-74-2	Di-n-butylphthalate	1800		57.9	160	210	ug/Kg
206-44-0	Fluoranthene	1800		36.3	160	210	ug/Kg
129-00-0	Pyrene	1700		43.5	160	210	ug/Kg
85-68-7	Butylbenzylphthalate	1800		86.4	160	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		44.4	330	400	ug/Kg
56-55-3	Benzo(a)anthracene	1800		27.8	160	210	ug/Kg
218-01-9	Chrysene	1800		24.1	160	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		71.6	160	210	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		100	330	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		23.0	160	210	ug/Kg

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207-08-9	Benzo(k)fluoranthene	1800		27.1	160	210	ug/Kg
50-32-8	Benzo(a)pyrene	1800		35.7	160	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		35.2	160	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		33.1	160	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		31.1	160	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		31.0	160	210	ug/Kg
123-91-1	1,4-Dioxane	1400		54.7	160	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		33.1	160	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	84.6		35 - 115		56%	SPK: 150
13127-88-3	Phenol-d6	85.7		34 - 127		57%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.9		37 - 122		52%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.8		44 - 115		50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.8		39 - 132		57%	SPK: 150
1718-51-0	Terphenyl-d14	45.7	*	54 - 127		46%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	151000	7.79
1146-65-2	Naphthalene-d8	606000	10.566
15067-26-2	Acenaphthene-d10	386000	14.395
1517-22-2	Phenanthrene-d10	780000	17.195
1719-03-5	Chrysene-d12	875000	21.642
1520-96-3	Perylene-d12	1000000	25.001

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