

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/08/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22M-S	SDG No.:	Q2820
Lab Sample ID:	Q2820-24	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89
Sample Wt/Vol:	30.02 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
BF143520.D	1	08/14/25 08:40	08/21/25 10:20	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	300	U	180	300	370	ug/Kg
108-95-2	Phenol	150	U	24.8	150	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	27.3	150	190	ug/Kg
95-57-8	2-Chlorophenol	150	U	27.4	150	190	ug/Kg
95-48-7	2-Methylphenol	150	U	33.6	150	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	42.1	150	190	ug/Kg
98-86-2	Acetophenone	150	U	33.1	150	190	ug/Kg
65794-96-9	3+4-Methylphenols	300	U	46.1	300	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	89.8	U	53.2	89.8	89.8	ug/Kg
67-72-1	Hexachloroethane	150	U	19.8	150	190	ug/Kg
98-95-3	Nitrobenzene	150	U	20.5	150	190	ug/Kg
78-59-1	Isophorone	150	U	36.8	150	190	ug/Kg
88-75-5	2-Nitrophenol	150	U	65.3	150	190	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	72.8	150	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	34.6	150	190	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	31.8	150	190	ug/Kg
91-20-3	Naphthalene	150	U	25.5	150	190	ug/Kg
106-47-8	4-Chloroaniline	150	U	39.7	150	190	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	28.4	150	190	ug/Kg
105-60-2	Caprolactam	300	U	58.5	300	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	32.2	150	190	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	28.7	150	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	300	U	130	300	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	22.2	150	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	32.7	150	190	ug/Kg
92-52-4	1,1-Biphenyl	150	U	24.5	150	190	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	25.3	150	190	ug/Kg
88-74-4	2-Nitroaniline	150	U	54.0	150	190	ug/Kg
131-11-3	Dimethylphthalate	150	U	30.4	150	190	ug/Kg

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208-96-8	Acenaphthylene	150	U	32.5	150	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	37.7	150	190	ug/Kg
99-09-2	3-Nitroaniline	150	U	51.7	150	190	ug/Kg
83-32-9	Acenaphthene	150	U	23.9	150	190	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	260	300	370	ug/Kg
100-02-7	4-Nitrophenol	300	U	120	300	370	ug/Kg
132-64-9	Dibenzofuran	150	U	25.5	150	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	56.3	150	190	ug/Kg
84-66-2	Diethylphthalate	150	U	31.8	150	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	30.0	150	190	ug/Kg
86-73-7	Fluorene	150	U	28.4	150	190	ug/Kg
100-01-6	4-Nitroaniline	150	U	72.1	150	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	300	U	120	300	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	36.9	150	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	31.2	150	190	ug/Kg
118-74-1	Hexachlorobenzene	150	U	28.4	150	190	ug/Kg
1912-24-9	Atrazine	150	U	38.2	150	190	ug/Kg
87-86-5	Pentachlorophenol	300	U	57.6	300	370	ug/Kg
85-01-8	Phenanthrene	150	U	23.5	150	190	ug/Kg
120-12-7	Anthracene	150	U	37.4	150	190	ug/Kg
86-74-8	Carbazole	150	U	35.0	150	190	ug/Kg
84-74-2	Di-n-butylphthalate	150	U	53.8	150	190	ug/Kg
206-44-0	Fluoranthene	150	U	33.7	150	190	ug/Kg
129-00-0	Pyrene	110	J	40.4	150	190	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	80.2	150	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	300	U	41.2	300	370	ug/Kg
56-55-3	Benzo(a)anthracene	150	U	25.8	150	190	ug/Kg
218-01-9	Chrysene	150	U	22.3	150	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	66.5	150	190	ug/Kg
117-84-0	Di-n-octyl phthalate	300	U	97.5	300	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	U	21.3	150	190	ug/Kg

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207-08-9	Benzo(k)fluoranthene	150	U	25.2	150	190	ug/Kg
50-32-8	Benzo(a)pyrene	150	U	33.1	150	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	32.7	150	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	30.8	150	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	150	U	28.9	150	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	28.7	150	190	ug/Kg
123-91-1	1,4-Dioxane	150	UQ	50.8	150	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	30.8	150	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	62.6		35 - 115		42%	SPK: 150
13127-88-3	Phenol-d6	67.2		34 - 127		45%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.6		37 - 122		57%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.5		44 - 115		52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	58.6		39 - 132		39%	SPK: 150
1718-51-0	Terphenyl-d14	37.8	*	54 - 127		38%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	141000	6.928
1146-65-2	Naphthalene-d8	461000	8.21
15067-26-2	Acenaphthene-d10	219000	9.975
1517-22-2	Phenanthrene-d10	311000	11.463
1719-03-5	Chrysene-d12	256000	14.098
1520-96-3	Perylene-d12	303000	15.592

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	620	J		2.26	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	630	J		8.28	ug/Kg
	unknown8.504	670	J		8.50	ug/Kg
062108-25-2	Decane, 2,6,7-trimethyl-	1700	J		8.63	ug/Kg
000629-50-5	Tridecane	480	J		8.80	ug/Kg
007098-22-8	Tetratetracontane	520	J		8.90	ug/Kg
1000382-90-5	Carbonic acid, decyl prop-1-en-2-y	530	J		9.09	ug/Kg

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001560-96-9	Tridecane, 2-methyl-	660	J			9.17	ug/Kg
006418-41-3	Tridecane, 3-methyl-	920	J			9.21	ug/Kg
	unknown9.375	3900	J			9.38	ug/Kg
1000309-14-4	Sulfurous acid, pentyl undecyl est	5900	J			9.69	ug/Kg
035507-09-6	7-Hexadecene, (Z)-	750	J			9.85	ug/Kg
1000282-04-8	Methoxyacetic acid, 2-tetradecyl e	2800	J			10.2	ug/Kg
000829-26-5	Naphthalene, 2,3,6-trimethyl-	950	J			10.3	ug/Kg
006975-98-0	Decane, 2-methyl-	3600	J			10.6	ug/Kg
026730-12-1	Tridecane, 4-methyl-	5500	J			10.9	ug/Kg
000629-78-7	Heptadecane	3200	J			11.4	ug/Kg
026429-11-8	Heptadecane, 4-methyl-	1500	J			11.7	ug/Kg
001576-67-6	Phenanthrene, 3,6-dimethyl-	750	J			12.4	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	550	J			12.5	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