

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
Sample Wt/Vol:	30.07 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
BP025534.D	1	08/15/25 08:25	08/21/25 10:50	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	290	U	170	290	360	ug/Kg
108-95-2	Phenol	140	U	23.9	140	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	26.3	140	180	ug/Kg
95-57-8	2-Chlorophenol	140	U	26.4	140	180	ug/Kg
95-48-7	2-Methylphenol	140	U	32.3	140	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	40.5	140	180	ug/Kg
98-86-2	Acetophenone	140	U	31.9	140	180	ug/Kg
65794-96-9	3+4-Methylphenols	290	U	44.4	290	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	86.5	U	51.2	86.5	86.5	ug/Kg
67-72-1	Hexachloroethane	140	U	19.0	140	180	ug/Kg
98-95-3	Nitrobenzene	140	U	19.8	140	180	ug/Kg
78-59-1	Isophorone	140	U	35.5	140	180	ug/Kg
88-75-5	2-Nitrophenol	140	U	62.9	140	180	ug/Kg
105-67-9	2,4-Dimethylphenol	140	U	70.0	140	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	33.3	140	180	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	30.6	140	180	ug/Kg
91-20-3	Naphthalene	140	U	24.5	140	180	ug/Kg
106-47-8	4-Chloroaniline	140	U	38.3	140	180	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	27.3	140	180	ug/Kg
105-60-2	Caprolactam	290	U	56.3	290	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	31.0	140	180	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	27.7	140	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	U	130	290	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	140	U	21.4	140	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	31.5	140	180	ug/Kg
92-52-4	1,1-Biphenyl	140	U	23.6	140	180	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	24.3	140	180	ug/Kg
88-74-4	2-Nitroaniline	140	U	52.0	140	180	ug/Kg
131-11-3	Dimethylphthalate	140	U	29.3	140	180	ug/Kg

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208-96-8	Acenaphthylene	140	U	31.2	140	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	36.3	140	180	ug/Kg
99-09-2	3-Nitroaniline	140	U	49.7	140	180	ug/Kg
83-32-9	Acenaphthene	140	U	23.0	140	180	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	250	290	360	ug/Kg
100-02-7	4-Nitrophenol	290	U	120	290	360	ug/Kg
132-64-9	Dibenzofuran	140	U	24.5	140	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	54.2	140	180	ug/Kg
84-66-2	Diethylphthalate	160	J	30.6	140	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	28.9	140	180	ug/Kg
86-73-7	Fluorene	140	U	27.3	140	180	ug/Kg
100-01-6	4-Nitroaniline	140	U	69.4	140	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	290	U	110	290	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	35.6	140	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	140	U	30.0	140	180	ug/Kg
118-74-1	Hexachlorobenzene	140	U	27.3	140	180	ug/Kg
1912-24-9	Atrazine	140	U	36.8	140	180	ug/Kg
87-86-5	Pentachlorophenol	290	U	55.5	290	360	ug/Kg
85-01-8	Phenanthrene	73.0	J	22.6	140	180	ug/Kg
120-12-7	Anthracene	140	U	36.0	140	180	ug/Kg
86-74-8	Carbazole	140	U	33.7	140	180	ug/Kg
84-74-2	Di-n-butylphthalate	95.7	J	51.8	140	180	ug/Kg
206-44-0	Fluoranthene	160	J	32.4	140	180	ug/Kg
129-00-0	Pyrene	150	J	38.9	140	180	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	77.2	140	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	290	U	39.7	290	360	ug/Kg
56-55-3	Benzo(a)anthracene	81.2	J	24.9	140	180	ug/Kg
218-01-9	Chrysene	100	J	21.5	140	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	64.0	140	180	ug/Kg
117-84-0	Di-n-octyl phthalate	290	U	93.8	290	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	20.5	140	180	ug/Kg

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207-08-9	Benzo(k)fluoranthene	140	U	24.2	140	180	ug/Kg
50-32-8	Benzo(a)pyrene	88.2	J	31.9	140	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	140	U	31.5	140	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	29.6	140	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	27.8	140	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	27.7	140	180	ug/Kg
123-91-1	1,4-Dioxane	140	U	48.9	140	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	29.6	140	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	53.7		35 - 115		36%	SPK: 150
13127-88-3	Phenol-d6	53.3		34 - 127		36%	SPK: 150
4165-60-0	Nitrobenzene-d5	35.9	*	37 - 122		36%	SPK: 100
321-60-8	2-Fluorobiphenyl	34.1	*	44 - 115		34%	SPK: 100
118-79-6	2,4,6-Tribromophenol	51.2	*	39 - 132		34%	SPK: 150
1718-51-0	Terphenyl-d14	31.4	*	54 - 127		31%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	186000	7.784
1146-65-2	Naphthalene-d8	731000	10.549
15067-26-2	Acenaphthene-d10	449000	14.395
1517-22-2	Phenanthrene-d10	879000	17.201
1719-03-5	Chrysene-d12	948000	21.648
1520-96-3	Perylene-d12	1100000	25.012

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	790	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	120	AB		4.94	ug/Kg
000119-61-9	Benzophenone	290	J		15.8	ug/Kg
000057-11-4	Octadecanoic acid	400	J		15.8	ug/Kg
082304-66-3	7,9-Di-tert-butyl-1-oxaspiro(4,5)d	97.3	J		17.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	1400	J		18.1	ug/Kg
001002-84-2	Pentadecanoic acid	540	J		19.5	ug/Kg

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1000377-93-5	Phthalic acid, di(2-propylpentyl)	150	J			20.2	ug/Kg
077899-03-7	1-Heneicosyl formate	120	J			21.3	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