

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.4
Sample Wt/Vol:	30.01 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
BP025536.D	1	08/15/25 08:25	08/21/25 12:12	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	290	U	170	290	350	ug/Kg
108-95-2	Phenol	140	U	23.7	140	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	26.0	140	180	ug/Kg
95-57-8	2-Chlorophenol	140	U	26.1	140	180	ug/Kg
95-48-7	2-Methylphenol	140	U	32.0	140	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	40.1	140	180	ug/Kg
98-86-2	Acetophenone	140	U	31.6	140	180	ug/Kg
65794-96-9	3+4-Methylphenols	290	U	44.0	290	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	85.6	U	50.7	85.6	85.6	ug/Kg
67-72-1	Hexachloroethane	140	U	18.8	140	180	ug/Kg
98-95-3	Nitrobenzene	140	U	19.6	140	180	ug/Kg
78-59-1	Isophorone	140	U	35.1	140	180	ug/Kg
88-75-5	2-Nitrophenol	140	U	62.3	140	180	ug/Kg
105-67-9	2,4-Dimethylphenol	140	U	69.4	140	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	33.0	140	180	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	30.3	140	180	ug/Kg
91-20-3	Naphthalene	140	U	24.3	140	180	ug/Kg
106-47-8	4-Chloroaniline	140	U	37.9	140	180	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	27.1	140	180	ug/Kg
105-60-2	Caprolactam	290	U	55.8	290	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	30.7	140	180	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	27.4	140	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	U	120	290	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	140	U	21.2	140	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	31.1	140	180	ug/Kg
92-52-4	1,1-Biphenyl	140	U	23.3	140	180	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	24.1	140	180	ug/Kg
88-74-4	2-Nitroaniline	140	U	51.5	140	180	ug/Kg
131-11-3	Dimethylphthalate	140	U	29.0	140	180	ug/Kg

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.4
Sample Wt/Vol:	30.01 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
BP025536.D	1	08/15/25 08:25	08/21/25 12:12	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	140	U	30.9	140	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	36.0	140	180	ug/Kg
99-09-2	3-Nitroaniline	140	U	49.2	140	180	ug/Kg
83-32-9	Acenaphthene	140	U	22.8	140	180	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	250	290	350	ug/Kg
100-02-7	4-Nitrophenol	290	U	110	290	350	ug/Kg
132-64-9	Dibenzofuran	140	U	24.3	140	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	53.6	140	180	ug/Kg
84-66-2	Diethylphthalate	140	U	30.3	140	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	28.6	140	180	ug/Kg
86-73-7	Fluorene	140	U	27.1	140	180	ug/Kg
100-01-6	4-Nitroaniline	140	U	68.7	140	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	290	U	110	290	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	35.2	140	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	140	U	29.8	140	180	ug/Kg
118-74-1	Hexachlorobenzene	140	U	27.1	140	180	ug/Kg
1912-24-9	Atrazine	140	U	36.4	140	180	ug/Kg
87-86-5	Pentachlorophenol	290	U	54.9	290	350	ug/Kg
85-01-8	Phenanthrene	72.1	J	22.4	140	180	ug/Kg
120-12-7	Anthracene	140	U	35.6	140	180	ug/Kg
86-74-8	Carbazole	140	U	33.4	140	180	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	51.3	140	180	ug/Kg
206-44-0	Fluoranthene	130	J	32.1	140	180	ug/Kg
129-00-0	Pyrene	110	J	38.5	140	180	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	76.4	140	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	290	U	39.3	290	350	ug/Kg
56-55-3	Benzo(a)anthracene	140	U	24.6	140	180	ug/Kg
218-01-9	Chrysene	140	U	21.3	140	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	63.4	140	180	ug/Kg
117-84-0	Di-n-octyl phthalate	290	U	92.9	290	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	78.5	J	20.3	140	180	ug/Kg

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.4
Sample Wt/Vol:	30.01 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
BP025536.D	1	08/15/25 08:25	08/21/25 12:12	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	24.0	140	180	ug/Kg
50-32-8	Benzo(a)pyrene	140	U	31.6	140	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	140	U	31.1	140	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	29.3	140	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	27.5	140	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	27.4	140	180	ug/Kg
123-91-1	1,4-Dioxane	140	U	48.4	140	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	29.3	140	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	81.5		35 - 115		54%	SPK: 150
13127-88-3	Phenol-d6	82.0		34 - 127		55%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.3		37 - 122		52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.8		44 - 115		51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.6		39 - 132		55%	SPK: 150
1718-51-0	Terphenyl-d14	51.8	*	54 - 127		52%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	221000	7.784
1146-65-2	Naphthalene-d8	884000	10.549
15067-26-2	Acenaphthene-d10	566000	14.401
1517-22-2	Phenanthrene-d10	1130000	17.201
1719-03-5	Chrysene-d12	1110000	21.648
1520-96-3	Perylene-d12	1230000	25.018

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	730	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	AB		4.94	ug/Kg
000119-61-9	Benzophenone	300	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		18.1	ug/Kg
056641-38-4	1,6-Methano-1H-indene, 2,3,3a,4,5,	870	J		18.5	ug/Kg
001024-57-3	Heptachlor epoxide	73.5	J		19.2	ug/Kg
020020-02-4	Naphthalene, 1,2,3,4-tetrachloro-	77.8	J		19.3	ug/Kg

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	93.4
Sample Wt/Vol:	30.01 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
BP025536.D	1	08/15/25 08:25	08/21/25 12:12	PB169259

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000057-11-4	Octadecanoic acid	130	J			19.5	ug/Kg
005103-74-2	trans-Chlordane	280	J			19.6	ug/Kg
1010374-81-1	4-Methoxy-5-bromo-dimethylaminob	74.9	J			20.7	ug/Kg
015594-90-8	1-Heneicosanol	350	J			21.3	ug/Kg
018835-33-1	1-Hexacosene	290	J			22.6	ug/Kg
077899-10-6	(Z)-14-Tricosenyl formate	140	J			23.7	ug/Kg
000557-61-9	Octacosanol	300	J			24.2	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