284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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-E	SDG No.:	Q2820
Lab Sample ID:	Q2820-23	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	34
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
BP025523.D	1	08/14/25 08:40	08/21/25 01:56	PB169242

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	790	U	460	790	970	ug/Kg
108-95-2	Phenol	380	U	64.8	380	500	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	380	U	71.3	380	500	ug/Kg
95-57-8	2-Chlorophenol	380	U	71.6	380	500	ug/Kg
95-48-7	2-Methylphenol	380	U	87.7	380	500	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	380	U	110	380	500	ug/Kg
98-86-2	Acetophenone	380	U	86.6	380	500	ug/Kg
65794-96-9	3+4-Methylphenols	790	U	120	790	970	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	230	U	140	230	230	ug/Kg
67-72-1	Hexachloroethane	380	U	51.6	380	500	ug/Kg
98-95-3	Nitrobenzene	380	U	53.7	380	500	ug/Kg
78-59-1	Isophorone	380	U	96.2	380	500	ug/Kg
88-75-5	2-Nitrophenol	380	U	170	380	500	ug/Kg
105-67-9	2,4-Dimethylphenol	380	U	190	380	500	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	380	U	90.4	380	500	ug/Kg
120-83-2	2,4-Dichlorophenol	380	U	83.0	380	500	ug/Kg
91-20-3	Naphthalene	380	U	66.6	380	500	ug/Kg
106-47-8	4-Chloroaniline	380	U	100	380	500	ug/Kg
87-68-3	Hexachlorobutadiene	380	U	74.2	380	500	ug/Kg
105-60-2	Caprolactam	790	U	150	790	970	ug/Kg
59-50-7	4-Chloro-3-methylphenol	380	U	84.2	380	500	ug/Kg
91-57-6	2-Methylnaphthalene	380	U	75.1	380	500	ug/Kg
77-47-4	Hexachlorocyclopentadiene	790	U	340	790	970	ug/Kg
88-06-2	2,4,6-Trichlorophenol	380	U	58.1	380	500	ug/Kg
95-95-4	2,4,5-Trichlorophenol	380	U	85.4	380	500	ug/Kg
92-52-4	1,1-Biphenyl	380	U	64.0	380	500	ug/Kg
91-58-7	2-Chloronaphthalene	380	U	66.0	380	500	ug/Kg
88-74-4	2-Nitroaniline	380	U	140	380	500	ug/Kg
131-11-3	Dimethylphthalate	380	U	79.5	380	500	ug/Kg

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208-96-8	Acenaphthylene	380	U	84.8	380	500	ug/Kg
606-20-2	2,6-Dinitrotoluene	380	U	98.6	380	500	ug/Kg
99-09-2	3-Nitroaniline	380	U	130	380	500	ug/Kg
83-32-9	Acenaphthene	380	U	62.5	380	500	ug/Kg
51-28-5	2,4-Dinitrophenol	790	U	670	790	970	ug/Kg
100-02-7	4-Nitrophenol	790	U	310	790	970	ug/Kg
132-64-9	Dibenzofuran	380	U	66.6	380	500	ug/Kg
121-14-2	2,4-Dinitrotoluene	380	U	150	380	500	ug/Kg
84-66-2	Diethylphthalate	380	U	83.0	380	500	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	380	U	78.3	380	500	ug/Kg
86-73-7	Fluorene	380	U	74.2	380	500	ug/Kg
100-01-6	4-Nitroaniline	380	U	190	380	500	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	790	U	300	790	970	ug/Kg
86-30-6	n-Nitrosodiphenylamine	380	U	96.5	380	500	ug/Kg
101-55-3	4-Bromophenyl-phenylether	380	U	81.6	380	500	ug/Kg
118-74-1	Hexachlorobenzene	380	U	74.2	380	500	ug/Kg
1912-24-9	Atrazine	380	U	99.8	380	500	ug/Kg
87-86-5	Pentachlorophenol	790	U	150	790	970	ug/Kg
85-01-8	Phenanthrene	380	U	61.3	380	500	ug/Kg
120-12-7	Anthracene	380	U	97.7	380	500	ug/Kg
86-74-8	Carbazole	380	U	91.6	380	500	ug/Kg
84-74-2	Di-n-butylphthalate	380	U	140	380	500	ug/Kg
206-44-0	Fluoranthene	380	U	88.0	380	500	ug/Kg
129-00-0	Pyrene	380	U	110	380	500	ug/Kg
85-68-7	Butylbenzylphthalate	380	U	210	380	500	ug/Kg
91-94-1	3,3-Dichlorobenzidine	790	U	110	790	970	ug/Kg
56-55-3	Benzo(a)anthracene	380	U	67.5	380	500	ug/Kg
218-01-9	Chrysene	380	U	58.4	380	500	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	380	U	170	380	500	ug/Kg
117-84-0	Di-n-octyl phthalate	790	U	250	790	970	ug/Kg
205-99-2	Benzo(b)fluoranthene	380	U	55.8	380	500	ug/Kg

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207-08-9	Benzo(k)fluoranthene	380	U	65.7	380	500	ug/Kg
50-32-8	Benzo(a)pyrene	380	U	86.6	380	500	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	380	U	85.4	380	500	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	380	U	80.4	380	500	ug/Kg
191-24-2	Benzo(g,h,i)perylene	380	U	75.4	380	500	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U	75.1	380	500	ug/Kg
123-91-1	1,4-Dioxane	380	UQ	130	380	500	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	380	U	80.4	380	500	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	80.7		35 - 115		54%	SPK: 150
13127-88-3	Phenol-d6	77.1		34 - 127		51%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.0		37 - 122		54%	SPK: 100
321-60-8	2-Fluorobiphenyl	45.6		44 - 115		46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	77.9		39 - 132		52%	SPK: 150
1718-51-0	Terphenyl-d14	37.8	*	54 - 127		38%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	171000	7.784				
1146-65-2	Naphthalene-d8	650000	10.555				
15067-26-2	Acenaphthene-d10	384000	14.401				
1517-22-2	Phenanthrene-d10	762000	17.195				
1719-03-5	Chrysene-d12	898000	21.63				
1520-96-3	Perylene-d12	1030000	24.989				
TENTATIVE IDENTIFIED COMPOUNDS							
000994-05-8	Butane, 2-methoxy-2-methyl-	3000	J			3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	470	AB			4.95	ug/Kg
000119-61-9	Benzophenone	710	J			15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	640	J			18.1	ug/Kg
000110-34-9	Hexadecanoic acid, 2-methylpropyl	440	JB			19.4	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	560	JB			19.6	ug/Kg
000646-13-9	Octadecanoic acid, 2-methylpropyl	230	J			20.5	ug/Kg

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CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000123-95-5	Octadecanoic acid, butyl ester	460	JB			20.7	ug/Kg
077899-03-7	1-Heneicosyl formate	770	J			21.3	ug/Kg
000629-97-0	Docosane	200	J			21.9	ug/Kg
000593-45-3	Octadecane	300	J			22.5	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