

TABLE 1  
Former National Fuel Corporation Pit Locations  
Soil Sample Analytical Results  
Foundation Energy Management

Sample ID	Date Sampled	BTEX				TPH		pH	EC (mmhos/cm)	SAR	Metals													PAHs											
		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)				Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium III (mg/kg)	Chromium VI (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(A)anthracene (mg/kg)	Benzo(B)fluoranthene (mg/kg)	Benzo(K)fluoranthene (mg/kg)	Benzo(A)pyrene (mg/kg)	Chrysene (mg/kg)	Dibenzo(A,H)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3,C,D)pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
Table 910-1 Allowable Concentrations		0.17	85	100	175	500		6-9	<4	<12	0.39	15,000	70	120,000	23	3,100	400	23	1,600	390	390	23,000	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000
Fed 1-34: E@8'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	7.96	9.74*																										
Fed 1-34: N@8'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.09	11.1*																										
Fed 1-34: S@6'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.08	12.6*																										
Fed 1-34: C@3.5'	12/01/2016	0.0038	< 0.0050	0.19	2.5	1500	1800	8.33	1.32	0.321	28.9	105	< 0.120	9.69	< 0.300	19.3	18.4	< 0.0600	18.7	1.52	< 0.120	75.9	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	0.00974	< 0.00500	< 0.00500	0.0432	< 0.00500	< 0.00500	< 0.00500
Fed 1-34: W@8'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.22	13.5*																										
Fed 1-35: N@5'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.05	7.86*																										
Fed 1-35: W@7'	12/01/2016	0.0031	< 0.0050	0.037	0.081	4.8	54	7.73	6.72*																										
Fed 1-35: S@5'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	7.79	6.30*																										
Fed 1-35: E@2'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	7.96	5.62																										
Fed 1-35: C@3'	12/01/2016	0.044	< 0.0050	0.30	0.018	9.1	88	7.90	2.60	0.250	6.64	25.7	< 0.122	5.09	< 0.300	6.59	8.41	< 0.0612	9.95	0.717	< 0.122	35.0	< 0.00500	< 0.00500	< 0.00500	0.00615	< 0.00500	< 0.00500	0.00804	< 0.00500	0.00574	0.00755	< 0.00500	0.232	< 0.00500
Fed 43-4: E@4'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	9.41*	0.407																										
Fed 43-4: C@6'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	33	9200	2000	8.51	0.674	0.295	4.55	169	0.243	6.54	< 0.300	15.5	12.4	< 0.0596	13.0	< 0.477	< 0.119	56.1	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500
Fed 43-4: S@6'	12/01/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.88	1.51																										
Fed 43-4: W@2'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	9.27	0.744																										
Fed 43-4: N@10'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.61	2.09																										
Fed 12-3: C@4'	12/02/2016	< 0.0020	0.11	2.0	80	13000	5500	8.15	6.52*	8.78	7.77	135	0.388	7.68	< 0.300	20.6	27.0	< 0.0537	13.8	0.665	0.248	81.5	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	0.0701	< 0.00500	0.150	< 0.00500
Fed 12-3: S@6'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.04	2.33																										
Fed 12-3: E@8'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	7.91	6.24*																										
Fed 12-3: N@8'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.16	5.89*																										
Fed 12-3: W@10'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.01	4.25*																										
Fed 3-11: C@6'	12/02/2016	2.0	8.8	17	170	9000	1100	8.36	15.3*	26.6*	11.0	130	0.321	7.14	< 0.300	15.8	15.8	< 0.0556	14.5	1.80	0.150	7.43	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	0.0636	< 0.00500	2.38	< 0.00500
Fed 3-11: W@2'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	7.79	7.50																										
Fed 3-11: N@2'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	7.84	12.4																										
Fed 3-11: S@4'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	7.97	21.5*																										
Fed 3-11: E@6'	12/02/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.03	22.0*																										
Ferg 3-9: C@8'	12/03/2016	< 0.0020	24	10	570	1700	1800	7.87	4.35*	0.120	5.71	137	0.140	6.08	< 0.300	8.72	9.57	< 0.0489	9.84	0.591	< 0.115	36.8	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	0.00719	< 0.00500	1.19	< 0.00500
Ferg 3-9: N@8'	12/03/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	0.69	< 50	8.07	7.08*																										
Ferg 3-9: E@10'	12/03/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.15	6.70*																										
Ferg 3-9: S@10'	12/03/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.19	2.20																										
Ferg 3-9: W@10'	12/03/2016	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 50	8.00	5.93*																										

Red Text = Constituent concentration exceeds COGCC Table 910-1 standard  
< = Constituent concentration less than the listed laboratory reporting limit  
\* = Sample collected below the designated root zone  
Blank Cell = Constituent not analyzed  
mg/kg = Milligram per Kilogram  
TPH = Total Petroleum Hydrocarbons  
GRO = Gasoline Range Organics  
DRO = Diesel Range Organics  
EC = Electrical Conductivity  
SAR = Sodium Absorption Ratio  
mmhos/cm - millimhos per centimeter