

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**ROUSE USX A05-03, WELD COUNTY, COLORADO**  
**REM # 32885**

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
FL01 3'	04/09/2024	3'	40.5200692	-104.57596	1.1	0.0
FL06 3'	04/09/2024	3'	40.5201086	-104.58159	0.9	2.0
FL07 5'	04/09/2024	5'	40.5199758	-104.58164	0.9	0.5
BKG01	04/08/2024	0.5', 3', 5'	40.5197544	-104.58234	0.8	0.0
BKG02	04/08/2024	0.5', 3', 5'	40.5193910	-104.58250	0.8	0.0
BKG03	04/08/2024	0.5', 3', 5'	40.5190635	-104.58247	0.8	0.0
BKG04	04/09/2024	0.5', 3', 5'	40.5190878	-104.58166	0.8	0.0
BKG05	04/09/2024	0.5', 3', 5'	40.5162896	-104.58166	0.9	0.0
BKG06	04/09/2024	0.5', 3', 5'	40.5165652	-104.57569	0.8	0.0
BKG07	04/09/2024	0.5', 3', 5'	40.5185225	-104.57906	0.8	0.0
BKG08	04/09/2024	0.5', 3', 5'	40.5198988	-104.57596	1.0	0.0
BKG09	04/09/2024	0.5', 3', 5'	40.5199293	-104.58114	1.0	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
ROUSE USX A05-03, WELD COUNTY, COLORADO  
REM # 32885

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01 3'	04/09/2024	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL06 3'	04/09/2024	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL07 5'	04/09/2024	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

1. Bold values exceed the ECMC Table 915-1 limit(s)
  2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
  3. \* Indicates laboratory minimum detection limit in excess of SSL
  4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg
- NA - Not analyzed

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE 100322  
ROUSE USX A05-03, WELD COUNTY, COLORADO  
REM # 32885

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01 3'	04/09/2024	3'	<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	<0.00500
FL06 3'	04/09/2024	3'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00641	<0.00500	<0.00500	0.00570	<0.00500	<0.00500
FL07 5'	04/09/2024	5'	0.0503	0.0796	<b>0.0508</b>	0.0541	0.0892	0.0393	0.0889	<0.00500	0.279	0.0424	0.0598	0.244	<0.00500	0.00750

1. Bold values exceed the ECMC Table 915-1 limit(s)
  2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
  3. \* Indicates laboratory minimum detection limit in excess of SSL
- NA - Not analyzed

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**ROUSE USX A05-03, WELD COUNTY, COLORADO**  
**REM # 32885**

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 3'	04/09/2024	3'	8.55	0.319	0.689	<2.00
FL06 3'	04/09/2024	3'	8.22	0.334	0.935	<2.00
FL07 5'	04/09/2024	5'	8.28	0.749	4.33	<2.00
BKG01 0.5'	04/08/2024	0.5'	8.42	0.0445	0.0615	<2.00
BKG01 3'	04/08/2024	3'	8.54	0.0471	0.0684	<2.00
BKG01 5'	04/08/2024	5'	8.81	1.46	5.28	<2.00
BKG02 0.5'	04/08/2024	0.5'	8.46	0.145	0.184	<2.00
BKG02 3'	04/08/2024	3'	9.11	0.492	3.38	<2.00
BKG02 5'	04/08/2024	5'	9.19	0.762	5.30	<2.00
BKG03 0.5'	04/08/2024	0.5'	8.48	0.312	0.543	<2.00
BKG03 3'	04/08/2024	3'	8.64	0.820	2.51	<2.00
BKG03 5'	04/08/2024	5'	9.35	0.457	3.28	<2.00
BKG04 0.5'	04/09/2024	0.5'	8.74	0.266	0.613	<2.00
BKG04 3'	04/09/2024	3'	9.07	0.149	0.405	<2.00
BKG04 5'	04/09/2024	5'	8.83	0.153	0.498	<2.00

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
BKG05 0.5'	04/09/2024	0.5'	<b>8.31</b>	0.406	1.04	<2.00
BKG05 3'	04/09/2024	3'	<b>8.90</b>	0.236	0.598	<2.00
BKG05 5'	04/09/2024	5'	<b>9.09</b>	0.154	0.331	<2.00
BKG06 0.5'	04/09/2024	0.5'	8.23	0.526	1.29	<2.00
BKG06 3'	04/09/2024	3'	8.28	0.360	0.931	<2.00
BKG06 5'	04/09/2024	5'	<b>9.19</b>	0.454	3.03	<2.00
BKG07 0.5'	04/09/2024	0.5'	<b>8.69</b>	0.223	0.713	<2.00
BKG07 3'	04/09/2024	3'	<b>8.93</b>	0.218	0.708	<2.00
BKG07 5'	04/09/2024	5'	8.14	0.250	0.91	<2.00
BKG08 0.5'	04/09/2024	0.5'	<b>8.90</b>	0.275	0.643	<2.00
BKG08 3'	04/09/2024	3'	<b>8.94</b>	0.208	0.434	<2.00
BKG08 5'	04/09/2024	5'	<b>9.15</b>	0.488	2.85	<2.00
BKG09 0.5'	04/09/2024	0.5'	<b>8.88</b>	0.314	0.608	<2.00
BKG09 3'	04/09/2024	3'	<b>8.78</b>	0.237	0.560	<2.00
BKG09 5'	04/09/2024	5'	<b>8.99</b>	0.674	3.69	<2.00
Maximum Root Background Concentration (0 - 3 ft)			<b>9.11</b>	0.820	3.38	<2.00
Average Root Background Concentration (0 - 3 ft)			<b>8.89</b>	0.423	1.93	<2.00
Maximum Background Concentration			<b>9.35</b>	1.46	5.30	<2.00
Average Background Concentration			<b>8.78</b>	0.375	1.50	<2.00

1. Bold faced values exceed the ECMC Table 915-1 limit(s)
  2. Blue highlighted soil analytical values indicate a regulatory exceedance
- NA - Not analyzed

**TABLE 5**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**NOBLE 100322**  
**ROUSE USX A05-03, WELD COUNTY, COLORADO**  
**REM # 32885**

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01 3'	04/09/2024	3'	3.50	115	0.561	<0.30	12.9	12.1	4.98	<0.234	0.0333	58.0
FL06 3'	04/09/2024	3'	3.64	77.2	0.345	<0.30	11.1	7.95	4.79	<0.232	0.0371	41.8
FL07 5'	04/09/2024	5'	3.91	78.1	0.337	<0.30	9.13	8.38	5.25	<0.260	0.0379	37.1
BKG01 0.5'	04/08/2024	0.5'	3.54	72.5	0.225	<0.30	7.04	7.10	7.99	<0.260	0.0527	27.6
BKG01 3'	04/08/2024	3'	3.26	61.1	0.207	<0.30	6.00	6.35	7.24	<0.260	0.0408	24.0
BKG01 5'	04/08/2024	5'	3.48	59.2	<0.200	<0.30	4.42	4.44	5.62	<0.260	0.0304	18.0
BKG02 0.5'	04/08/2024	0.5'	4.05	66.0	0.254	<0.30	7.98	8.78	7.65	<0.260	0.043	32.8
BKG02 3'	04/08/2024	3'	2.30	34.8	<0.200	<0.30	3.08	3.78	3.95	<0.260	<0.0200	14.6
BKG02 5'	04/08/2024	5'	2.36	37.8	<0.200	<0.30	3.74	4.35	4.73	<0.260	<0.0200	17.2
BKG03 0.5'	04/08/2024	0.5'	4.48	69.1	0.290	<0.30	9.95	9.31	7.35	<0.260	0.0417	40.7
BKG03 3'	04/08/2024	3'	2.96	88.7	<0.200	<0.30	4.22	4.95	5.17	<0.260	0.0282	17.6
BKG03 5'	04/08/2024	5'	9.48	64.6	0.462	<0.30	9.43	4.40	12.1	<0.260	0.0228	26.8
BKG04 0.5'	04/09/2024	0.5'	3.83	75.7	0.333	<0.30	12.7	8.56	7.98	<0.260	0.0428	44.5
BKG04 3'	04/09/2024	3'	3.97	92.5	0.375	<0.30	10.1	9.46	9.20	<0.260	0.0500	39.3
BKG04 5'	04/09/2024	5'	4.85	85.7	0.371	<0.30	12.4	9.92	9.04	<0.260	0.0410	44.2

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG05 0.5'	04/09/2024	0.5'	<b>3.60</b>	67.5	0.336	<0.30	11.5	8.97	7.24	<0.260	0.0412	41.7
BKG05 3'	04/09/2024	3'	<b>3.47</b>	<b>110</b>	0.328	<0.30	10.1	9.07	9.52	<0.260	0.0474	38.9
BKG05 5'	04/09/2024	5'	<b>5.08</b>	74.1	0.348	<0.30	6.95	5.04	7.51	<0.260	<0.0200	32.4
BKG06 0.5'	04/09/2024	0.5'	<b>3.99</b>	<b>86.9</b>	<b>0.383</b>	<0.30	17.1	10.0	9.25	<b>0.266</b>	0.0484	54.1
BKG06 3'	04/09/2024	3'	<b>3.25</b>	39.4	0.352	<0.30	14.7	10.7	15.3	<0.260	0.0436	54.3
BKG06 5'	04/09/2024	5'	<b>3.79</b>	<b>88.0</b>	0.229	<0.30	7.17	7.25	8.12	<0.260	0.051	28.0
BKG07 0.5'	04/09/2024	0.5'	<b>3.37</b>	69.0	0.317	<0.30	14.0	9.56	7.26	<0.260	0.0412	45.3
BKG07 3'	04/09/2024	3'	<b>4.91</b>	<b>114</b>	0.349	<0.30	10.1	9.82	11.4	<0.260	0.0596	42.1
BKG07 5'	04/09/2024	5'	<b>6.98</b>	73.9	<b>0.462</b>	<0.30	9.31	9.52	9.04	<0.260	0.039	28.2
BKG08 0.5'	04/09/2024	0.5'	<b>2.78</b>	47.7	0.293	<0.30	9.35	6.02	4.82	<0.260	0.0242	30.6
BKG08 3'	04/09/2024	3'	<b>4.08</b>	52.9	<0.200	<0.30	5.68	5.32	5.89	<0.260	0.0211	21.0
BKG08 5'	04/09/2024	5'	<b>3.04</b>	<b>106</b>	0.258	<0.30	5.92	6.57	7.77	<0.260	0.0381	26.8
BKG09 0.5'	04/09/2024	0.5'	<b>3.77</b>	49.9	0.241	<0.30	10.3	6.67	5.59	<0.260	0.0287	33.1
BKG09 3'	04/09/2024	3'	<b>4.54</b>	69.3	0.199	<0.30	6.38	6.11	7.45	<0.234	0.019	22.7
BKG09 5'	04/09/2024	5'	<b>3.67</b>	<b>108</b>	0.249	<0.30	6.64	6.17	8.08	<0.260	0.0336	28.3
Maximum Root Zone Background Concentration (0 - 3 ft)			<b>4.91</b>	<b>114</b>	<b>0.383</b>	<0.30	17.1	10.7	15.3	<b>0.266</b>	0.0596	54.3
125% Average Root Zone Background Concentration (0 - 3 ft)			<b>5.24</b>	<b>94.4</b>	<b>0.403</b>	<0.30	9.47	8.56	10.22	<b>0.3325</b>	0.0471	36.4
Maximum Background Concentration			<b>9.48</b>	<b>114</b>	<b>0.462</b>	<0.30	17.1	10.7	15.3	<b>0.266</b>	0.0596	54.3
125% Average Background Concentration			<b>5.04</b>	<b>90.9</b>	<b>0.390</b>	<0.30	10.9	9.18	9.83	<0.260	0.0484	40.5

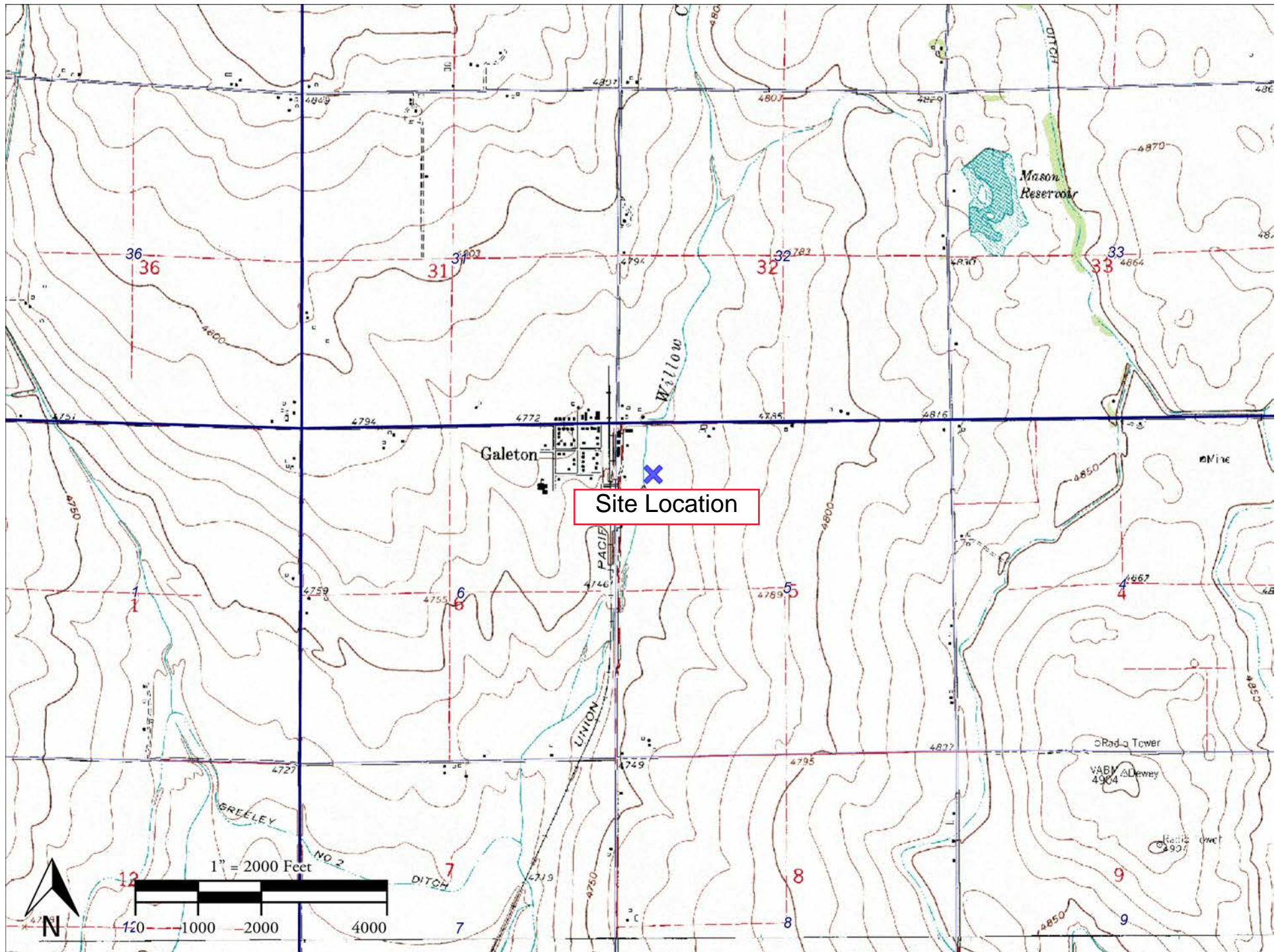
1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

# Rouse USX A05-03



# Rouse USX A05-03

API #/Facility #: 05-123-30349  
Legal Description: NENW sec. 5, T6N, R64W  
Latitude/Longitude: 40.5199758, -104.58164  
Remediation # 32885  
Fremont No. C024-073

## Legend

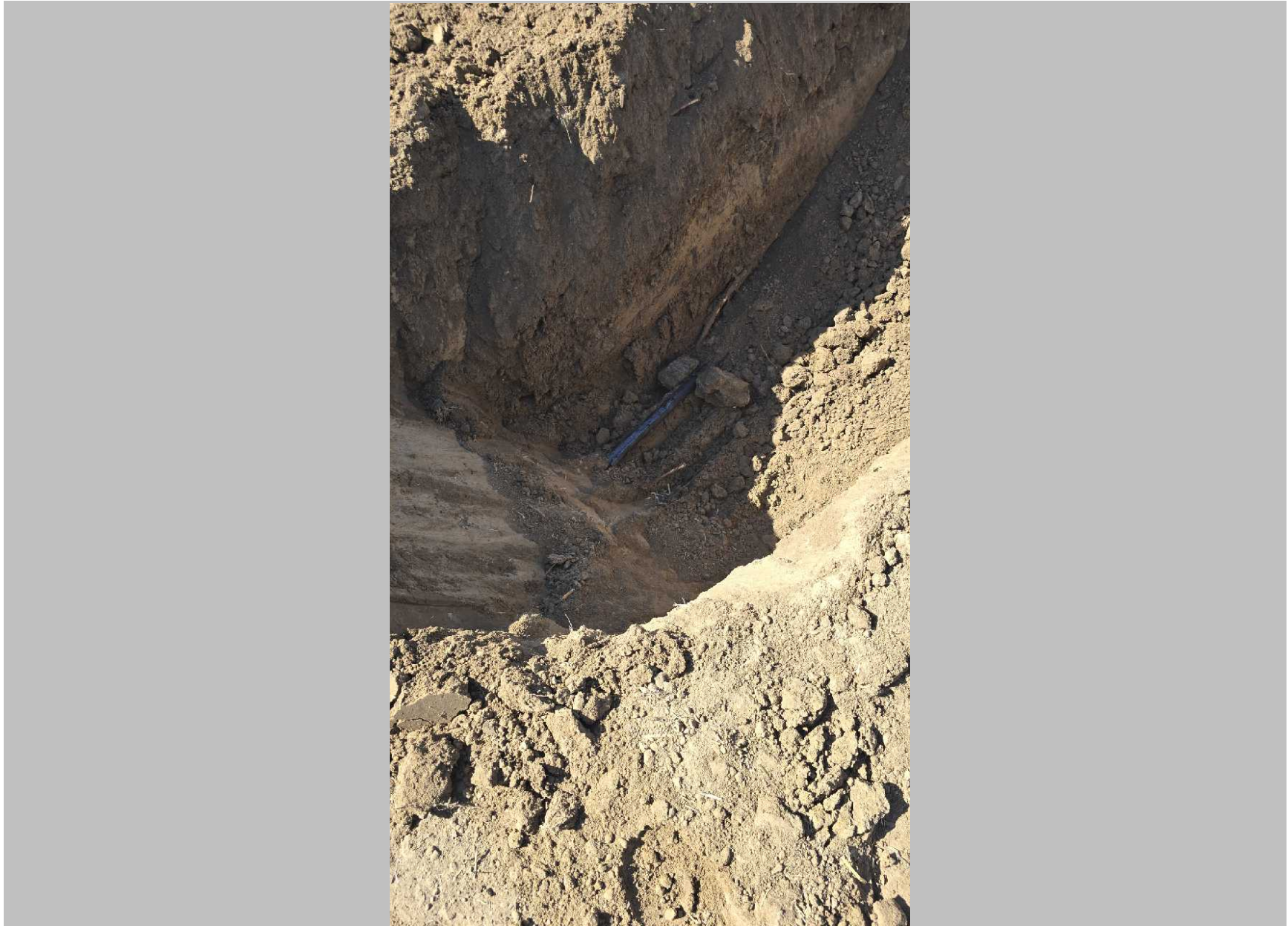
● Impacted Location

Proposed Ex.  
Extent: 5'x5'x6'  
deep (Not To  
Scale)

FL075



# Photo Log



**Description:**

#7-FL07 5' - Start of line abandonment heading towards former separator, no visual staining or odor