



Facility Closure Investigation and Environmental Summary

UPRC 13-06J Wellhead

ECMC Remediation Project #40189

Weld County, Colorado

Attachments:

Figure 1 – General Location Map

Figure 2 – Historic Release Location

Table 1 – Soil Sample and Field Screening Location Information

Table 2 – Soil Analytical Results Summary Table – Volatile Organics

Table 3 – Soil Analytical Results Summary Table – PAHs

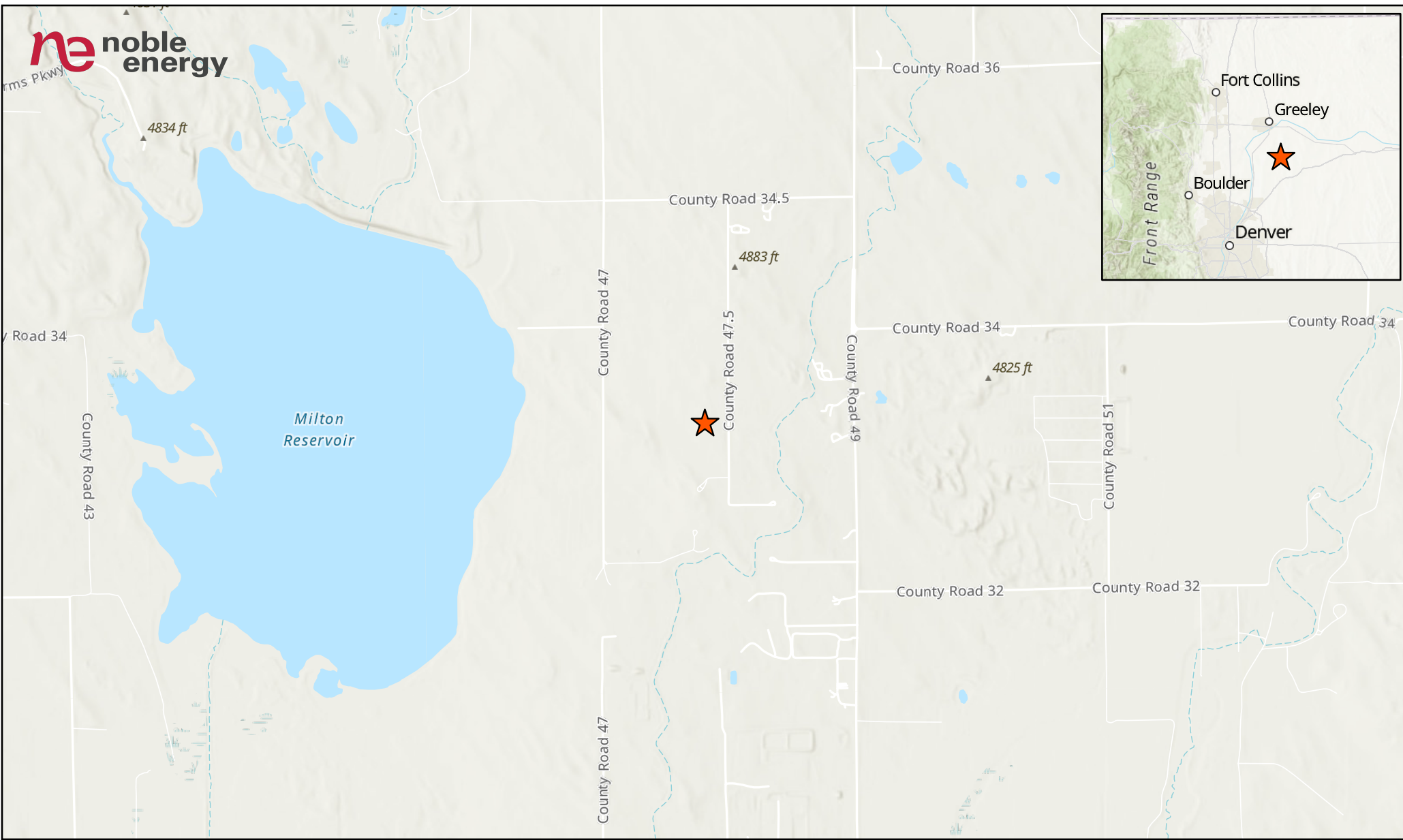
Table 4 – Soil Analytical Results Summary Table – Soil Suitability

Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

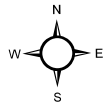
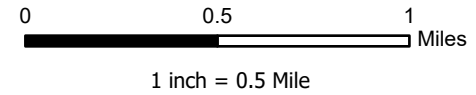
Attachment B: Facility Closure Checklists

FIGURES



LEGEND

 Site Location



Project No: 025-413

Map By: JW

Date: 09/03/2025

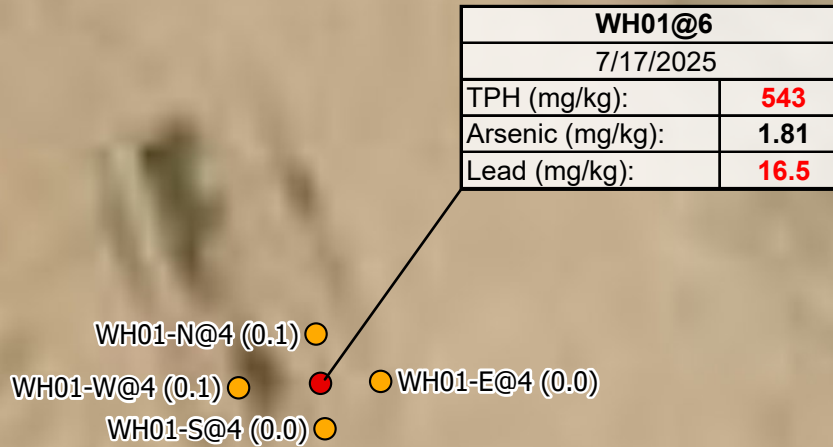
**UPRC 13-06J WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
SE 1/4 NW 1/4 SECTION 13
T3N R65W, 6TH PM
WELD COUNTY, COLORADO



610 Garrison St., Unit T
Lakewood, CO 80215
303.378.4036

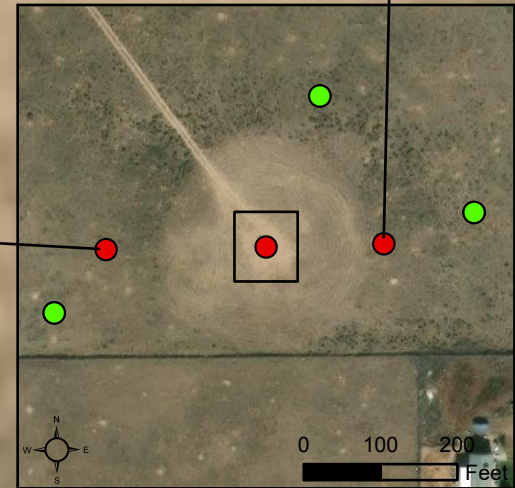
Figure

1



BKG02@4	
7/17/2025	
Arsenic (mg/kg):	1.84
BKG02@6	
7/17/2025	
Arsenic (mg/kg):	1.81

BKG01@4	
7/17/2025	
Arsenic (mg/kg):	1.94
Chromium (VI) (mg/kg):	0.09 J
BKG01@6	
7/17/2025	
Arsenic (mg/kg):	2.00

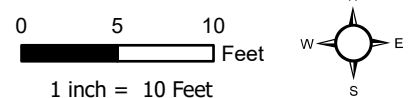


LABEL LEGEND
 XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 WH: WELLHEAD SAMPLE
 BKG: BACKGROUND SAMPLE
 TPH: TOTAL PETROLEUM HYDROCARBONS
BOLD: ABOVE ECMC TABLE 915-1 STANDARDS
BOLD: ABOVE ECMC TABLE 915-1 GWSSL,
 REPRESENTATIVE OF BACKGROUND LEVELS

Legend

- Soil Sample
- Screening Location
- Proposed Background Sample

NOTES:
 - Sample Label (PID Result in ppm)
 - ppm = parts per million
 - PID = photoionization detector



Cherov, Figure 2 - Template Noble Wellhead - Soil Sample and Field Screening Locations

EX03@4	
9/18/2025	
pH:	5.71
Arsenic (mg/kg):	1.48

EX01@8	
9/18/2025	
Arsenic (mg/kg):	4.31
Barium (mg/kg):	89.0

EX04@4	
9/18/2025	
Arsenic (mg/kg):	2.13

EX02@4	
9/18/2025	
Arsenic (mg/kg):	2.11

BKG03@4	
9/18/2025	
Arsenic (mg/kg):	2.62

BKG03@8	
9/18/2025	
Arsenic (mg/kg):	2.91

EX05@4	
9/18/2025	
Arsenic (mg/kg):	1.98

BKG04@4	
9/18/2025	
Arsenic (mg/kg):	2.89

BKG04@8	
9/18/2025	
Arsenic (mg/kg):	2.58

BKG02@4	
7/17/2025	
Arsenic (mg/kg):	1.84

BKG02@6	
7/17/2025	
Arsenic (mg/kg):	1.81

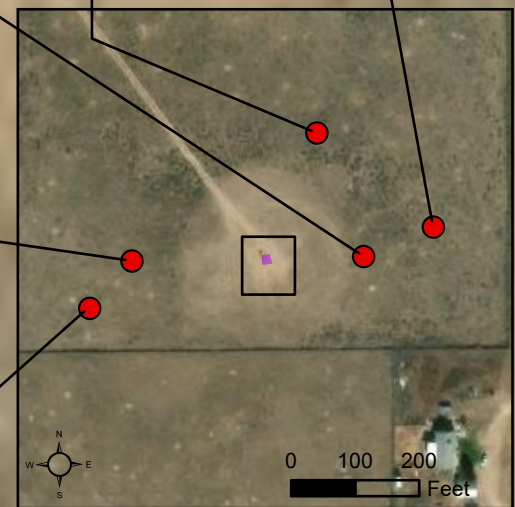
BKG01@4	
7/17/2025	
Arsenic (mg/kg):	1.94
Chromium (VI) (mg/kg):	0.09 J

BKG01@6	
7/17/2025	
Arsenic (mg/kg):	2.00

BKG05@4	
9/18/2025	
Arsenic (mg/kg):	2.64

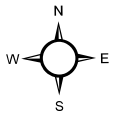
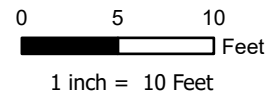
BKG05@8	
9/18/2025	
Arsenic (mg/kg):	2.99

LABEL LEGEND
 XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 EX: EXCAVATION SAMPLE
 BKG: BACKGROUND SAMPLE
RED: BOLD FACED VALUES EXCEED THE ECMC TABLE 915-1 LIMIT(S)
BOLD: BOLD FACED VALUES EXCEED THE ECMC TABLE 915-1 LIMIT(S) BUT ARE WITHIN BACKGROUND CONCENTRATIONS



Legend

- Soil Sample
- Excavation Extent



Project No: 025-413
Map By: JW
Date: 12/10/2025

UPRC 13-06J WELLHEAD
EXCAVATION EXTENT AND SOIL SAMPLE LOCATIONS
 NOBLE ENERGY
 SE 1/4 NW 1/4 SECTION 13
 T3N R65W, 6TH PM
 WELD COUNTY, COLORADO



610 Garrison St., Unit T
 Lakewood, CO 80215
 303.378.4036

Figure
 3

Chiron, Figure 3 - UPRC 13-06J Wellhead - Excavation Sample Locations

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
WH01@6	7/17/2025	6	40.227415	-104.613470	0.3
WH01-N@4	7/17/2025	4	40.227422	-104.613471	0.1
WH01-E@4	7/17/2025	4	40.227415	-104.613459	0.0
WH01-W@4	7/17/2025	4	40.227414	-104.613486	0.1
WH01-S@4	7/17/2025	4	40.227408	-104.613470	0.0
EX01@8	9/18/2025	8	40.227411	-104.613464	0.8
EX02@4	9/18/2025	4	40.227409	-104.613490	0.1
EX03@4	9/18/2025	4	40.227432	-104.613468	0.1
EX04@4	9/18/2025	4	40.227415	-104.613438	0.1
EX05@4	9/18/2025	4	40.227391	-104.613459	0.0
BKG01@4	7/17/2025	4	40.227410	-104.614218	0.0
BKG01@6	7/17/2025	6	40.227410	-104.614218	0.0
BKG02@4	7/17/2025	4	40.227420	-104.612921	0.0
BKG02@6	7/17/2025	6	40.227420	-104.612921	0.0
BKG03@4	9/18/2025	4	40.227947	-104.613163	0.0
BKG03@8	9/18/2025	8	40.227947	-104.613163	0.0
BKG04@4	9/18/2025	4	40.227538	-104.612517	0.2
BKG04@8	9/18/2025	8	40.227538	-104.612517	0.6
BKG05@4	9/18/2025	4	40.227203	-104.614444	0.2
BKG05@8	9/18/2025	8	40.227203	-104.614444	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).

ppm - Parts per million

ft-bgs - feet below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	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**		
WH01@6	7/17/2025	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	543	<0.200	273	270
EX01@8	9/18/2025	8	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<140.123	<0.223	<27.9	<112
EX02@4	9/18/2025	4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<146.534	<0.234	<29.3	<117
EX03@4	9/18/2025	4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<145.145	<0.045	<29.1	<116
EX04@4	9/18/2025	4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<154.047	<0.247	<30.8	<123
EX05@4	9/18/2025	4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<131.510	<0.210	<26.3	<105

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

2. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

3. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

 = Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	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
WH01@6	7/17/2025	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
EX01@8	9/18/2025	8	<0.022	<0.022	<0.006	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.002	<0.002
EX02@4	9/18/2025	4	<0.023	<0.023	<0.006	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.002	<0.002
EX03@4	9/18/2025	4	<0.023	<0.023	<0.006	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.002	<0.002
EX04@4	9/18/2025	4	<0.025	<0.025	<0.006	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.002	<0.002
EX05@4	9/18/2025	4	<0.021	<0.021	<0.005	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.002	<0.002

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
ft-bgs - feet below ground surface
mg/kg - milligrams per kilogram
= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	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
WH01@6	7/17/2025	6	7.59	0.677	0.648	<0.100
EX01@8	9/18/2025	8	6.50	0.552	0.394	<0.112
EX02@4	9/18/2025	4	6.82	0.175	0.237	<0.117
EX03@4	9/18/2025	4	5.71	0.108	0.184	<0.117
EX04@4	9/18/2025	4	7.40	0.0868	0.938	<0.123
EX05@4	9/18/2025	4	7.51	0.0765	0.105	<0.105
BKG01@4	7/17/2025	4	7.36	0.0517	0.173	<0.0999
BKG01@6	7/17/2025	6	7.15	0.0617	0.180	<0.100
BKG02@4	7/17/2025	4	7.30	0.0562	0.174	<0.100
BKG02@6	7/17/2025	6	7.49	0.0489	0.221	<0.0997
BKG03@4	9/18/2025	4	8.03	0.0779	0.298	<0.129
BKG03@8	9/18/2025	8	8.19	0.068	0.424	<0.127
BKG04@4	9/18/2025	4	7.14	0.0699	0.159	<0.129
BKG04@8	9/18/2025	8	7.32	0.0366	0.223	<0.118
BKG05@4	9/18/2025	4	7.05	0.061	0.114	<0.115
BKG05@8	9/18/2025	8	7.34	0.130	0.114	0.116
Maximum Background Concentration			8.19	0.130	0.424	0.116

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

2. Brown highlighted soil analytical values indicate a regulatory exceedance.

3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

ft-bgs - feet below ground surface

EC - Electrical Conductivity

SAR - Sodium adsorption ratio

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

 = Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
UPRC 13-06J WELLHEAD, WELD COUNTY, COLORADO
REM # 40189

Sample ID	Sample Date	Depth (ft-bgs)	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
WH01@6	7/17/2025	6	1.81	<73.7	<0.341	<0.20*	<41.3	16.5	<23.4	<0.234	<0.719	<332
EX01@8	9/18/2025	8	4.31	89.0	<0.281	<0.58*	<34.0	<10.3	<19.2	<0.182	<0.591	<273
EX02@4	9/18/2025	4	2.11	<62.2	<0.288	<0.584*	<34.9	<10.6	<19.7	<0.187	<0.607	<281
EX03@4	9/18/2025	4	1.48	<61.2	<0.284	<0.592*	<34.4	<10.5	<19.4	<0.184	<0.597	<276
EX04@4	9/18/2025	4	2.13	<70.4	<0.326	<0.547*	<39.5	<12.0	<22.3	<0.211	<0.687	<318
EX05@4	9/18/2025	4	1.98	<57.4	<0.266	<0.551*	<32.2	<9.80	<18.2	<0.172	<0.560	<259
BKG01@4	7/17/2025	4	1.94	<79.0	<0.366	0.09 J	<44.3	<13.5	<25.1	<0.251	<0.771	<357
BKG01@6	7/17/2025	6	2.00	<78.5	<0.364	<0.20*	<44.1	<13.4	<24.9	<0.249	<0.766	<354
BKG02@4	7/17/2025	4	1.84	<76.1	<0.353	<0.20*	<42.7	<13.0	<24.1	<0.241	<0.742	<343
BKG02@6	7/17/2025	6	1.81	<72.2	<0.335	<0.19*	<40.5	<12.3	<22.9	<0.229	<0.705	<326
BKG03@4	9/18/2025	4	2.62	77.4	<0.338	<0.653*	<40.9	<12.5	<23.1	<0.219	<0.712	<329
BKG03@8	9/18/2025	8	2.91	<67.0	<0.311	<0.634*	<37.6	<11.4	<21.3	<0.201	<0.654	<302
BKG04@4	9/18/2025	4	2.89	74.5	<0.323	<0.634*	<39.1	<11.9	<22.1	0.210	<0.680	<315
BKG04@8	9/18/2025	8	2.58	<62.9	<0.291	<0.563*	<35.3	<10.7	<19.9	<0.189	<0.613	<284
BKG05@4	9/18/2025	4	2.64	<66.9	<0.310	<0.552*	<37.5	<11.4	<21.2	<0.201	<0.653	<302
BKG05@8	9/18/2025	8	2.99	64.7	<0.282	<0.55*	<34.1	<10.4	<19.3	<0.182	<0.593	<274
1.25 X Maximum Background Concentration			3.74	96.8	-	0.11	-	-	-	0.263	-	-

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
 2. **Bold** faced values exceed the ECMC Table 915-1 limit(s)
 3. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 4. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
- * Indicates laboratory reporting or minimum detection limit in excess of SSL
- ft-bgs - feet below ground surface
- mg/kg - milligrams per kilogram
- Material excavated and transported off site for disposal.
- J - The reported result is an estimated value.

**ATTACHMENT A
PHOTOGRAPHIC LOG**

UPRC 13-06J Wellhead Photographic Log

Wellhead Initial Facility Closure – July 17, 2025



UPRC 13-06J Wellhead Photographic Log

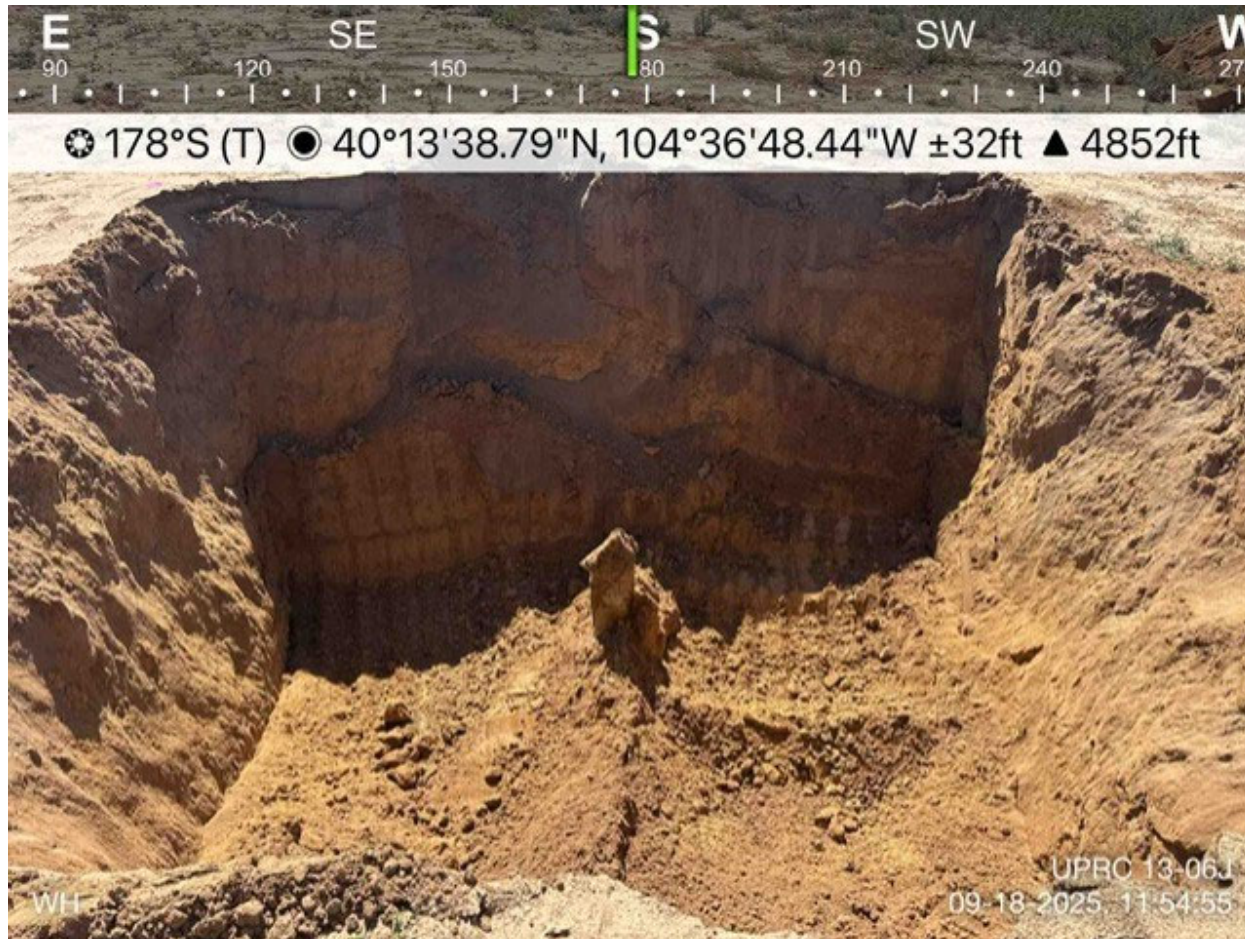


UPRC 13-06J Wellhead Photographic Log



UPRC 13-06J Wellhead Photographic Log

Historical Release Excavation – Final Extents – September 18, 2025



UPRC 13-06J Wellhead Photographic Log



UPRC 13-06J Wellhead Photographic Log



UPRC 13-06J Wellhead Photographic Log



**ATTACHMENT B
FACILITY CLOSURE CHECKLISTS**

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: UPRC 13-06J, 249195		Date: 7/17/2025, 9/18/2025						Remediation Project #: 40189	
Associated Wells: NA		Age of Site: 9/14/1993 - spud date						Number of Photos Attached: 7	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.2277407, -104.613465							Estimated Facility Size (acres): ~0.01		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Overall good									
USCS Soil Type: SM, SP				Estimated Depth to Groundwater: Unknown/Not encountered					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Historical release identified during wellhead C&C; impacted soils removed via mechanical excavation ~66 cubic yards									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None encountered or observed									
Wellhead(s)									
Well API	05-123-16997								
Age	1993 - spud								
Condition of surface around wellhead	Good								
PID Readings	0.0 - 0.1 ppm								
Condition of subsurface (staining present)	Good								
PID Readings	0.8 ppm								
Sample taken? Location/Sample ID#	WH01, EX01-EX05								
Photo Number(s)	1-7								
Other observations regarding wellheads: None observed									
Summary									
Was impacted soil identified? <input type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input checked="" type="checkbox"/> Yes - more than 10 cubic yards									
Total number of samples field screened: 10				Total number of samples collected: 10					
Highest PID Reading: 0.8 ppm				Total number of samples submitted to lab for analysis: 6					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent: ~8 ft-bgs				Estimated spill volume: Unknown					
Lateral extent: ~223 square feet				Volume of soil removed: ~66 cubic yards					
Is additional investigation required? Inorganic exceedances to be addressed with supplemental site investigation									
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No				Volume of groundwater removed prior to sampling:					
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									