

**DECOMMISSIONING REPORT  
ERICKSON A 4-12 FLOWLINE  
ECMC REMEDIATION # 33825**

Prepared for:

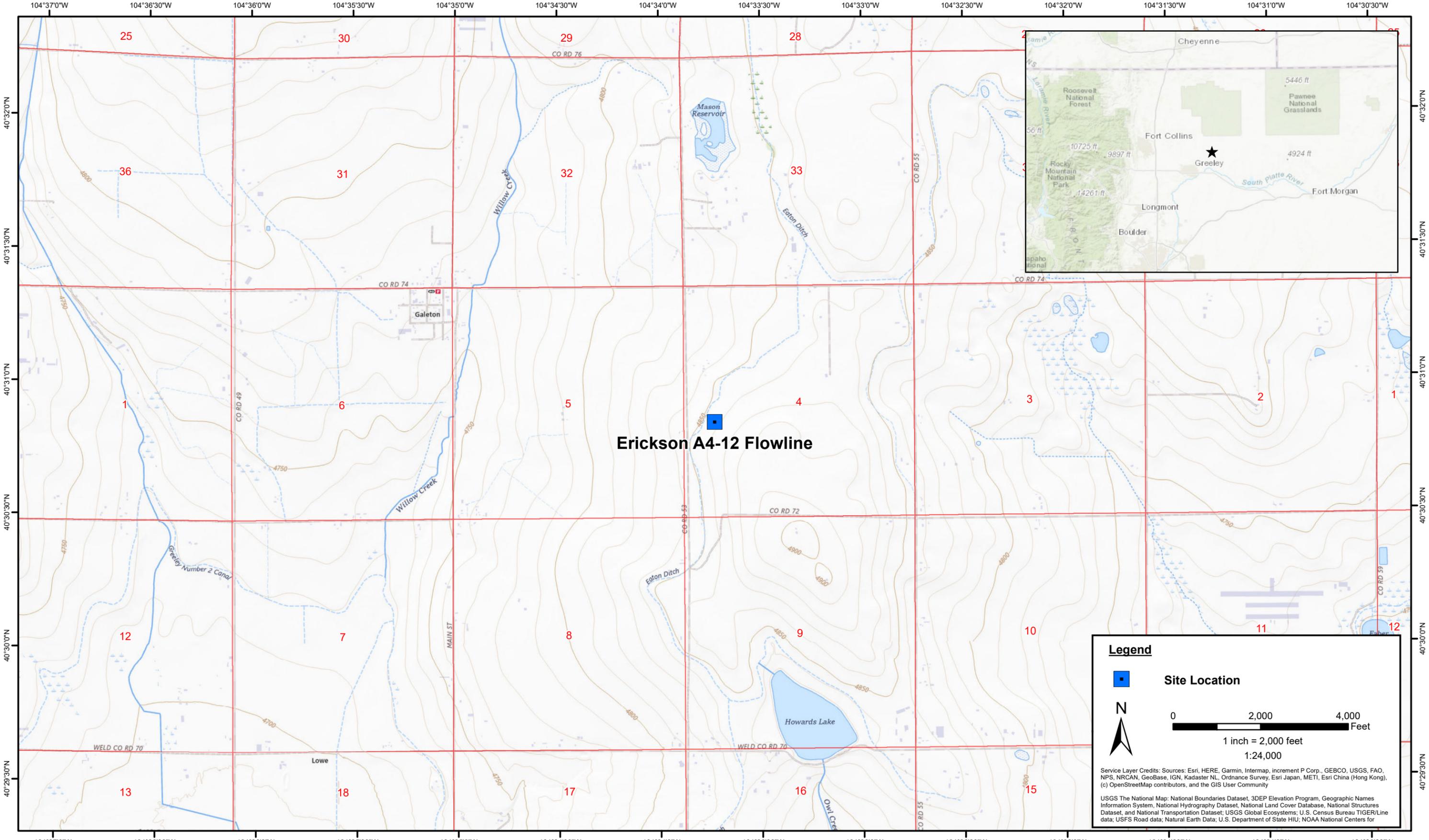


1099 18th Street  
Suite 1500  
Denver, CO 80202

Prepared by:



4725 Independence Street  
Wheat Ridge, CO 80033



**Legend**

**Site Location**

N

0 2,000 4,000 Feet

1 inch = 2,000 feet  
1:24,000

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data; Natural Earth Data; U.S. Department of State HIU; NOAA National Centers for

DATE:	May 2025
DESIGNED BY:	J. Whritenour
DRAWN BY:	L. Reed



Tasman, Inc.  
4725 Independence St.  
Wheat Ridge, CO 80033

**Noble Energy, Inc. – 100322 – DJ Basin**  
**Erickson A4-12 Flowline**  
 NWSW, Section 4, Township 6 North, Range 64 West  
 Weld County, Colorado

Site Location Map

Figure  
1



**Legend**

- Soil Sample Location – Lab Analyzed (Collected via Trimble GPS)
- Soil Sample Location – GSSL Exceedance (Collected via Trimble GPS)
- Soil Sample Location – RSSL Exceedance (Collected via Trimble GPS)
- Flowline Location (Collected via Trimble GPS)
- Flowline Location – Abandoned in Place

**Notes**

- 1) All locations are approximate unless otherwise noted.
- 2) Color coded sample exceedances are in reference to ECMC Table 915-1 Organic Compounds in Soil

GPS – Global Positioning System  
 PID – Photoionization Detector  
 ppm – Parts per million  
 GSSL – Protection of Groundwater Soil Screening Levels  
 RSSLs – Residential Soil Screening Levels

0 ft.      75 ft.      150 ft.

Image Source: Google Earth; Google 2019

**BKG03@2'**  
(04/02/2025)  
PID = 0.1 ppm

**BKG03@3'**  
(04/02/2025)  
PID = 0.0 ppm

**BKG03@4'**  
(04/02/2025)  
PID = 0.0 ppm

**FL01-03@4'**  
(04/02/2025)  
PID = 0.1 ppm

**FL01-02@4'**  
(04/02/2025)  
PID = 0.0 ppm

**BKG02@2'**  
(04/02/2025)  
PID = 0.4 ppm

**BKG02@3'**  
(04/02/2025)  
PID = 0.9 ppm

**BKG02@4'**  
(04/02/2025)  
PID = 0.3 ppm

**FL01-01@4'**  
(04/02/2025)  
PID = 2.1 ppm

**FL01R-W@3'**  
(06/20/2024)  
PID = 0.1 ppm

**BKG01@3'**  
(06/20/2024)  
PID = 0.3 ppm

DATE:	May 23, 2025
DESIGNED BY:	J. Whritenour
DRAWN BY:	S. Dasher



**Tasman, Inc.**  
 4725 Independence Street  
 Wheat Ridge, CO 80033

**Noble Energy, Inc. – DJ Basin  
 Erickson A 4-12**  
 NWSW, Section 4, Township 6 North, Range 64 West  
 Weld County, Colorado

SOIL SAMPLE  
 LOCATION MAP  
 (FLOWLINE)

FIGURE  
 2

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE ENERGY, INC. - 100322**  
**ERICKSON A 4-12 FLOWLINE, WELD COUNTY, COLORADO**  
**REM # 33825**

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
FL01R-W@3'	6/20/2024	3	40.513378	-104.562129	1.0	0.1
FL01-01@4'	4/2/2025	4	40.513676	-104.562160	0.7	2.1
FL01-02@4'	4/2/2025	4	40.513960	-104.562194	0.7	0.0
FL01-03@4'	4/2/2025	4	40.514261	-104.562232	0.8	0.1
BKG01@3'	6/20/2024	3	40.513428	-104.561950	0.8	0.3
BKG02@2'	4/2/2025	2	40.513927	-104.561908	0.9	0.4
BKG02@3'	4/2/2025	3	40.513927	-104.561908	0.9	0.9
BKG02@4'	4/2/2025	4	40.513927	-104.561908	0.9	0.3
BKG03@2'	4/2/2025	2	40.514016	-104.562413	0.9	0.1
BKG03@3'	4/2/2025	3	40.514016	-104.562413	0.9	0.0
BKG03@4'	4/2/2025	4	40.514016	-104.562413	0.9	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

ft. = Feet

bgs = Below ground surface

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE ENERGY, INC. - 100322  
ERICKSON A 4-12 FLOWLINE, WELD COUNTY, COLORADO  
REM # 33825

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**		
FL01R-W@3'	6/20/2024	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-01@4' <sup>(4)</sup>	4/2/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-02@4' <sup>(4)</sup>	4/2/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-03@4' <sup>(4)</sup>	4/2/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<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. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg
  4. Due to a laboratory error, the 8260B analysis was run out of hold time.
- (<) = Analytical result is less than the indicated laboratory reporting limit.  
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics  
TPH-DRO = Total petroleum hydrocarbons - diesel range organics  
TPH-ORO = Total petroleum hydrocarbons - oil range organics  
mg/kg = Milligrams per kilogram  
ft. = Feet  
bgs = Below ground surface  
NA - Not analyzed

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY, INC. - 100322  
ERICKSON A 4-12 FLOWLINE, WELD COUNTY, COLORADO  
REM # 33825

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
FL01R-W@3'	6/20/2024	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
FL01-01@4'	4/2/2025	4	0.129	0.158	<b>0.180</b>	<b>0.147</b>	0.204	0.0797	0.172	0.0263	0.272	0.160	0.144	0.222	<b>0.0280</b>	<b>0.0553</b>
FL01-02@4'	4/2/2025	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0100	<0.00500	<0.00500	0.00775	<0.00500	<0.00500
FL01-03@4'	4/2/2025	4	0.00798	0.0136	<b>0.0150</b>	0.00908	0.0161	<0.00500	0.0142	<0.00500	0.0352	0.0105	0.00616	0.0261	<0.00500	<0.00500

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)  
(<) = Analytical result is less than the indicated laboratory reporting limit.  
mg/kg = Milligrams per kilogram  
ft. = Feet  
bgs = Below ground surface  
NA - Not analyzed

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE ENERGY, INC. - 100322**  
**ERICKSON A 4-12 FLOWLINE, WELD COUNTY, COLORADO**  
**REM # 33825**

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
FL01R-W@3'	6/20/2024	3	<b>8.58</b>	0.268	0.482	<i>&lt;2.00</i>
FL01-01@4'	4/2/2025	4	8.23	1.30	2.22	<i>&lt;2.00</i>
FL01-02@4'	4/2/2025	4	8.18	1.94	2.40	<i>&lt;2.00</i>
FL01-03@4'	4/2/2025	4	8.21	1.55	2.19	<i>&lt;2.00</i>
BKG01@3'	6/20/2024	3	8.36	0.719	2.19	<i>&lt;2.00</i>
BKG02@2'	4/2/2025	2	8.19	1.57	1.99	<i>&lt;2.00</i>
BKG02@3'	4/2/2025	3	8.60	0.688	1.10	<i>&lt;2.00</i>
BKG02@4'	4/2/2025	4	8.54	0.742	0.990	<i>&lt;2.00</i>
BKG03@2'	4/2/2025	2	8.43	0.576	1.57	<i>&lt;2.00</i>
BKG03@3'	4/2/2025	3	8.34	2.01	2.16	<i>&lt;2.00</i>
BKG03@4'	4/2/2025	4	8.42	1.75	2.67	<i>&lt;2.00</i>
Maximum Background Concentration			8.60	-	-	-

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within background concentrations.

2. **Bold** faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.

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

mg/L = Milligrams per liter

ft. = Feet

bgs = Below ground surface

mmhos/cm = Millimohs per centimeter

NA - Not analyzed

**TABLE 5**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**NOBLE ENERGY, INC. - 100322**  
**ERICKSON A 4-12 FLOWLINE, WELD COUNTY, COLORADO**  
**REM # 33825**

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
FL01R-W@3'	6/20/2024	3	<b>2.37</b>	<b>87.3</b>	0.340	<0.30*	7.95	11.6	5.83	<b>0.303</b>	0.0312	28.2
FL01-01@4'	4/2/2025	4	<b>2.06</b>	59.7	<0.200	<0.30*	8.80	8.47	4.10	<0.260	<0.0200	22.2
FL01-02@4'	4/2/2025	4	<b>2.94</b>	<b>111</b>	<0.200	<0.30*	4.77	8.53	5.97	<0.260	<0.0200	30.1
FL01-03@4'	4/2/2025	4	<b>3.22</b>	74.7	<0.200	<0.30*	4.36	8.87	4.48	<0.260	<0.0200	28.3
BKG01@3'	6/20/2024	3	2.24	162	0.588	<0.30*	6.30	18.4	8.04	<0.260	0.0371	27.5
BKG02@2'	4/2/2025	2	2.54	126	0.268	<0.30*	8.71	8.64	9.13	<0.260	0.0377	32.5
BKG02@3'	4/2/2025	3	1.07	371	0.362	<0.30*	7.56	7.90	7.83	<0.260	0.0282	28.9
BKG02@4'	4/2/2025	4	1.13	322	0.307	<0.30*	6.66	7.59	6.99	<0.260	0.0239	26.8
BKG03@2'	4/2/2025	2	1.40	123	0.212	<0.30*	8.45	10.5	8.69	<0.260	0.0305	35.8
BKG03@3'	4/2/2025	3	2.03	85.1	<0.200	<0.30*	5.75	6.80	6.72	<0.260	0.0309	23.8
BKG03@4'	4/2/2025	4	3.16	92.6	<0.200	<0.30*	2.63	6.89	2.73	<0.260	<0.0200	15.6
1.25x Maximum Background Concentration			3.95	464	-	-	-	-	-	-	-	-

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) and native background concentrations.
  3. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).
  4. Non-detect background results accounted for in the highest background concentration by using the reporting limit.
  5. \* Indicates laboratory minimum detection limit in excess of SSL
- ECMC = Energy & Carbon Management Commission  
(<) = Analytical result is less than the indicated laboratory reporting limit.  
mg/kg = Milligrams per kilogram  
ft. = Feet  
bgs = Below ground surface  
NA - Not analyzed



<b>CLIENT:</b> Noble		<b>SITE NAME:</b> ERICKSON A04-12, 05-123-26531					<b>DATE:</b> 4/2/2025	<b>REM. PROJECT #:</b> 33825	<b>WEATHER:</b> 40s, sunny	
<b>SITE DIRECTIONS:</b> CR74/CR53 S 0.5 miles, E into site							<b>JOB#:</b>			
<b>LEGALS AND LAT/LONG:</b> 40.51473, -104.56421							<b>TASMAN PERSONNEL:</b> E Gooding-Lord			
<b>SOIL TYPES:</b> Well Graded Sand - SW							<b>SURFACE GRADIENT:</b> West			
<b>SOIL SAMPLING</b>							<b>FACILITY INFRASTRUCTURE</b>			
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT	Quantity		
							<b>Above Ground Storage Tank (AST)</b>			
04-02-2025 10:40	FL01-01@4'	2.1	No Staining	No Odor	Yes	Lab	<b>Buried or Partially Buried Vessel</b>			
04-02-2025 10:50	FL01-02@4'	0.0	No Staining	No Odor	Yes	Lab	<b>Separator</b>			
04-02-2025 11:10	FL01-03@4'	0.1	No Staining	No Odor	Yes	Lab	<b>Emission Control Device (ECD)</b>			
04-02-2025 11:20	BKG02@2'	0.4	No Staining	No Odor	Yes	Lab	<b>Dump Line</b>			
04-02-2025 11:25	BKG02@3'	0.9	No Staining	No Odor	Yes	Lab	<b>Wellhead</b>			
04-02-2025 11:30	BKG02@4'	0.3	No Staining	No Odor	Yes	Lab	<b>Flowline</b>			
04-02-2025 11:35	BKG03@2'	0.1	No Staining	No Odor	Yes	Lab	<b>Other:</b>			
04-02-2025 11:40	BKG03@3'	0.0	No Staining	No Odor	Yes	Lab	<b>Soil Loads Removed</b>			
04-02-2025 11:45	BKG03@4'	0.0	No Staining	No Odor	Yes	Lab	<b>IMPACTED SOIL IDENTIFIED?</b>			
							<b>ESTIMATED VOLUME OF IMPACTS:</b>			
							<b>Date</b>	<b>Number</b>	<b>CY</b>	
								-		
							<b>Total Removed</b>	0	0	
							<b>Disposal Facility:</b>			
							<b>Groundwater Recovery</b>			
							<b>DATE GW ENCOUNTERED:</b>		<b>DEPTH:</b>	
							<b>GROUNDWATER IN CONTACT WITH IMPACTED SOIL?</b>			
							<b>LNAPL OR SHEEN OBSERVED ON GW?</b>			
<b>GROUNDWATER SAMPLING</b>							<b>Date</b>	<b>BBLS</b>		
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?				
							<b>Total Removed</b>	0		
							<b>Disposal Facility:</b>			

# Chevron Rockies Business Unit

## Field Qualitative Criteria for ECMC Reporting Associated with the Discovery of Potentially Impacted Material

If answered **Yes** to any of the questions listed below, this may suggest the presence of potentially impacted materials as outlined in ECMC Rule 912. Out of an abundance of caution, a “Yes” response will be reported to the ECMC within 24 hours after discovery, regardless of laboratory results. **Immediately notify the RBU Remediation Team.** Include a copy of this Field Qualitative Spill Criteria Checklist in the field Report.

Please answer the following questions when on-site:

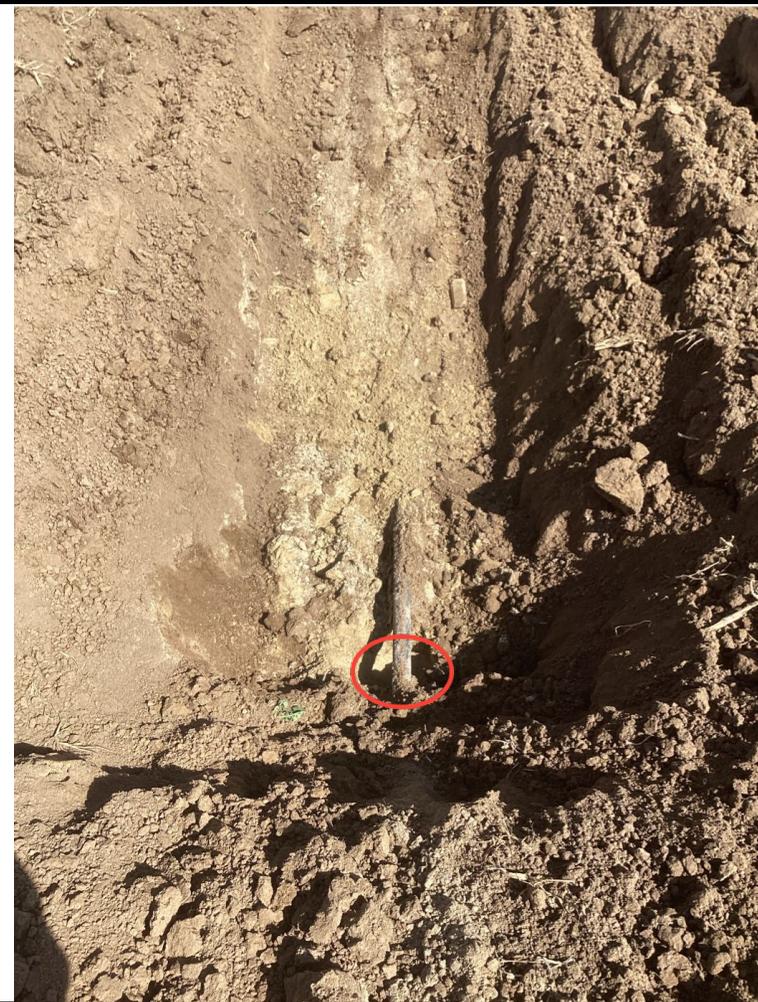
1. Is there visible petroleum hydrocarbon staining in the soil? No\_\_\_\_\_
2. Does the soil sample from the stained area have a petroleum odor? No\_\_\_\_\_
3. Is there a petroleum hydrocarbon sheen on the nearby surface water? No\_\_\_\_\_
4. Does there appear to be a sheen of the surface of accumulated groundwater or seeps within the excavation indicative of petroleum? No\_\_\_\_\_
5. Is stained soil in contact with groundwater? No\_\_\_\_\_

Please Include relevant photos of the site conditions for items 1-5.

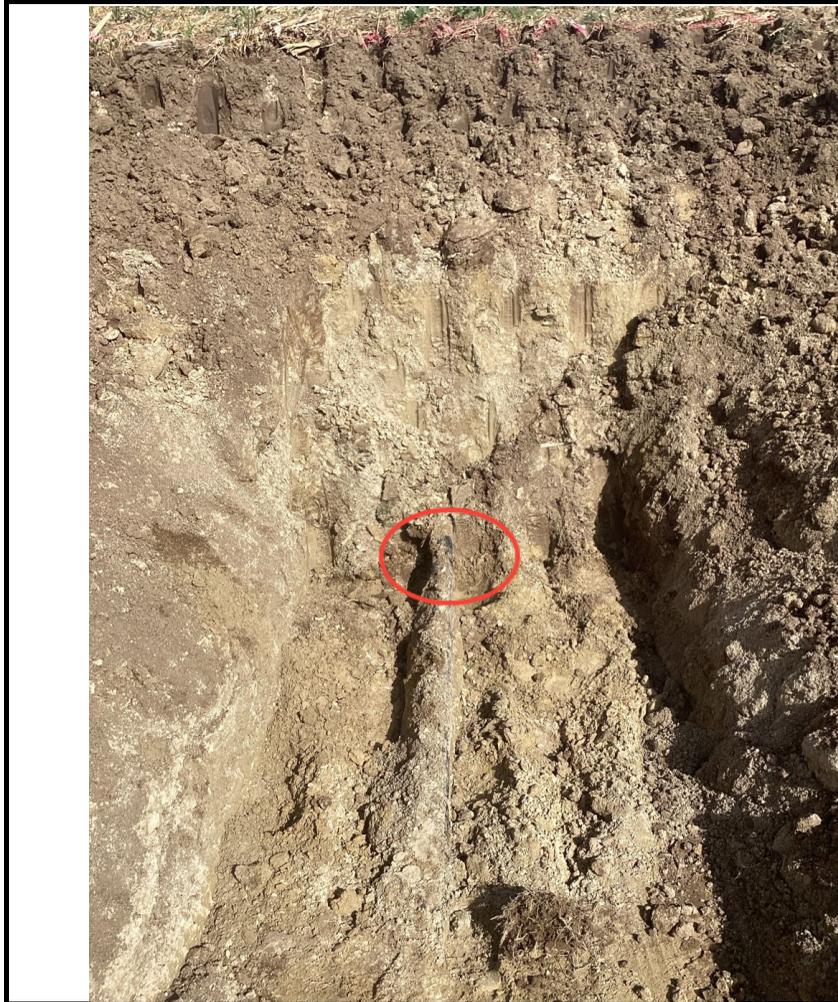
Location name: ERICKSON A04-12, 05-123-26531

Please Circle Facility Type: Flowline\_\_\_\_\_





<b>Equipment ID:</b> FL01-01@4'		<b>Equipment Type:</b>		<b>Equipment ID:</b> FL01-02@4'		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>		<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b>				<b>Notes/Conditions:</b>			



<b>Equipment ID:</b> FL01-03@4'		<b>Equipment Type:</b>		<b>Equipment ID:</b> BKG02@2', BKG02@3', BKG02@4'		<b>Equipment Type:</b>	
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>		<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	
<b>Notes/Conditions:</b>				<b>Notes/Conditions:</b>			



<b>Equipment ID:</b> BKG03@2', BKG03@3', BKG03@4'			<b>Equipment Type:</b>		
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	<b>Equipment ID:</b>	<b>Equipment Type:</b>	
<b>Notes/Conditions:</b>			<b>Notes/Conditions:</b>		