



TANK BATTERY DECOMMISSIONING FORM

CLIENT: Noble		SITE NAME: SPOMER T5N-R66W-S32 L02					DATE: 1/9/2025	REM. PROJECT #: 30722	WEATHER: CLOUDY 15 degrees	
SITE DIRECTIONS: CR 27 1/2 TO 54TH ST E .25 MILE TO SITE N							JOB#:			
LEGALS AND LAT/LONG: (40.3501945, -104.7958666)							TASMAN PERSONNEL: DE, JO			
SOIL TYPES: Clayey Sand - SC							SURFACE GRADIENT: South			
SOIL SAMPLING							FACILITY INFRASTRUCTURE			
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT	Quantity		
							Above Ground Storage Tank (AST)			
01-09-2025 10:00	PWV01-B@4'	4.3	No Staining	No Odor	Yes	Lab	Buried or Partially Buried Vessel			
01-09-2025 10:02	PWV01-N@2'	8.3	No Staining	No Odor	Yes	Lab	Separator			
01-09-2025 10:04	PWV01-S@2'	5.3	No Staining	No Odor	Yes	On-hold	Emission Control Device (ECD)			
01-09-2025 10:06	PWV01-E@2'	5.6	No Staining	No Odor	Yes	On-hold	Dump Line			
01-09-2025 10:08	PWV01-W@2'	4.0	No Staining	No Odor	Yes	On-hold	Wellhead			
01-09-2025 10:10	AST01@0-6"	138.0	No Staining	Strong HC Odor	Yes	Lab	Flowline			
01-09-2025 10:12	MH01@0-6"	3.0	No Staining	No Odor	Yes	Grab	Other:			
01-09-2025 10:14	FLARE01@0-6"	3.6	No Staining	No Odor	Yes	Grab	Soil Loads Removed			
01-09-2025 10:16	SEP01-FL@3'	3.7	No Staining	No Odor	Yes	Lab	IMPACTED SOIL IDENTIFIED?			
01-09-2025 10:18	SEP01-DL@3'	4.0	No Staining	No Odor	Yes	Lab	ESTIMATED VOLUME OF IMPACTS:			
01-09-2025 12:00	BKG01@0-6"	1.1	No Staining	No Odor	Yes	Lab	Date	Number	CY	
01-09-2025 12:02	BKG01@1'	1.1	No Staining	No Odor	Yes	Lab				
01-09-2025 12:04	BKG01@2'	0.7	No Staining	No Odor	Yes	Lab				
01-09-2025 12:06	BKG01@3'	0.6	No Staining	No Odor	Yes	Lab				
01-09-2025 12:08	BKG01@4'	0.6	No Staining	No Odor	Yes	Lab				
							Total Removed	0	0	
							Disposal Facility:			
							Groundwater Recovery			
							DATE GW ENCOUNTERED:	DEPTH:		
							GROUNDWATER IN CONTACT WITH IMPACTED SOIL?			
							LNAPL OR SHEEN OBSERVED ON GW?			
GROUNDWATER SAMPLING							Date	BBLs		
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?				
							Total Removed	0		
							Disposal Facility:			

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? Yes
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: SPOMER T5N-R66W-S32 L02

Please Circle Facility Type: Production Facility

Photographic Log


Equipment ID: AST01@0-6"	Equipment Type: Above Ground Storage Tank	
Material: Steel	Volume:	Contents: Crude Oil
Notes/Conditions:		

Equipment ID: PWV01-B@4'	Equipment Type: Partially Buried Vault	
Material: Concrete	Volume:	Contents: Produced Water
Notes/Conditions:		

Photographic Log


Equipment ID: PWV01-S@2'	Equipment Type: Partially Buried Vault	
Material: Concrete	Volume:	Contents: Produced Water
Notes/Conditions:		

Equipment ID: PWV01-W@2'	Equipment Type: Partially Buried Vault	
Material: Concrete	Volume:	Contents: Produced Water
Notes/Conditions:		

Photographic Log


Equipment ID: PWV01-E@2'	Equipment Type: Partially Buried Vault	
Material: Concrete	Volume:	Contents: Produced Water
Notes/Conditions:		

Equipment ID: FLARE01@0-6"	Equipment Type: Emission Control Device	
Material: Steel	Volume:	Contents:
Notes/Conditions:		

Photographic Log

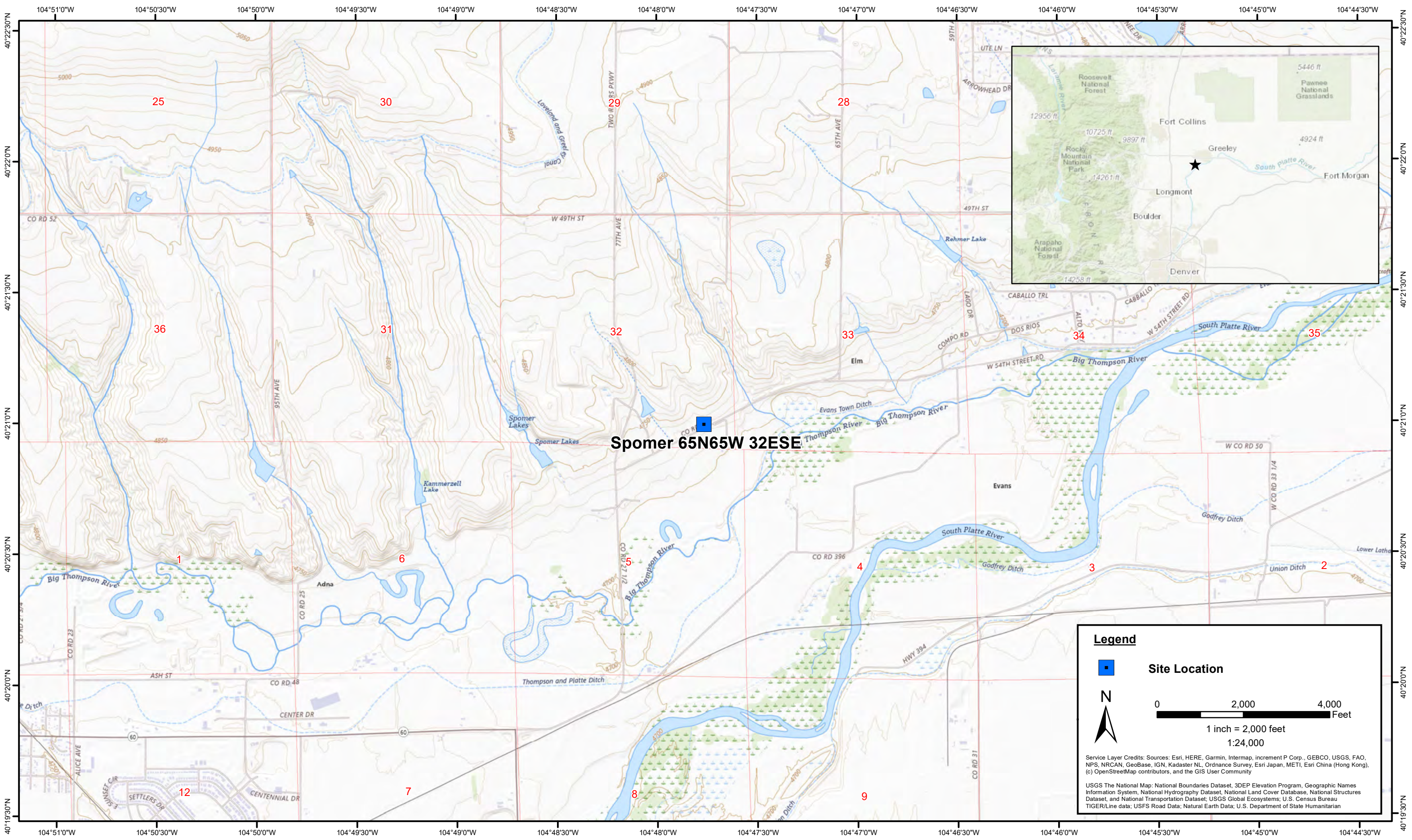

Equipment ID: MH01@0-6"		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions:			

Equipment ID: SEP01-FL@3'		Equipment Type: Flowline	
Material:	Volume:	Contents:	
Notes/Conditions:			

Photographic Log


Equipment ID: SEP01-DL@3'		Equipment Type: Dump Line	
Material: Steel	Volume:	Contents:	
Notes/Conditions:			

Equipment ID: BKG01@0-6",1',2',3',4'		Equipment Type:	
Material:	Volume:	Contents:	
Notes/Conditions:			



DATE: January 2025
 DESIGNED BY: J. Whritenour
 DRAWN BY: J. Woffinden



Noble Energy, Inc. (100322) - DJ Basin
Spomer 65N65W 32ESE
 SESE Section 32, Township 5 North, Range 66 West
 Weld County, Colorado

Site Location Map

Figure 1



BKG01 @0-6"
(01/09/2025)
PID = 1.1 ppm

BKG01 @1'
(01/09/2025)
PID = 1.1 ppm

BKG01 @2'
(01/09/2025)
PID = 0.7 ppm

BKG01 @3'
(01/09/2025)
PID = 0.6 ppm

BKG01 @4'
(01/09/2025)
PID = 0.6 ppm

FLARE01 @0-6"
(01/09/2025)
PID = 3.6 ppm

SEP01-DL @3'
(01/09/2025)
PID = 4.0 ppm

SEP01-FL @3'
(01/09/2025)
PID = 3.7 ppm

MH01 @0-6"
(01/09/2025)
PID = 3.0 ppm

PWV01-N @2'
(01/09/2025)
PID = 8.3 ppm

PWV01-E @2'
(01/09/2025)
PID = 5.6 ppm

PWV01-W @2'
(01/09/2025)
PID = 4.0 ppm

PWV01-B @4'
(01/09/2025)
PID = 4.3 ppm

PWV01-S @2'
(01/09/2025)
PID = 5.3 ppm

AST01 @0-6"
(01/09/2025)
PID = 138.0 ppm

DATE:	January 27, 2025
DESIGNED BY:	J. Whritenour
DRAWN BY:	J. Bowie



Noble Energy, Inc. – 100322 – DJ Basin
Spomer-65N66W 32SESE
 SESE, Section 32, Township 5 North, Range 66 West
 Weld County, Colorado

**SOIL SAMPLE
 LOCATION MAP
 (TANK BATTERY)**

**FIGURE
 2**

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE ENERGY, INC. (100322)
SPOMER-65N66W 32SESE TANK BATTERY, WELD COUNTY, COLORADO
REM # 30722

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
AST01@0-6"	1/9/2025	0-0.5	40.350067	-104.795978	0.9	138.0
PWV01-B@4'	1/9/2025	4	40.350105	-104.795995	NC	4.3
PWV01-E@2'	1/9/2025	2	40.350112	-104.795984	NC	5.6
PWV01-N@2'	1/9/2025	2	40.350112	-104.796003	NC	8.3
PWV01-S@2'	1/9/2025	2	40.350097	-104.795993	NC	5.3
PWV01-W@2'	1/9/2025	2	40.350101	-104.796011	NC	4.0
SEP01-DL@3'	1/9/2025	3	40.350267	-104.795698	0.9	4.0
SEP01-FL@3'	1/9/2025	3	40.350213	-104.795713	0.8	3.7
BKG01@0-6"	01/09/2025	0-0.5	40.350392	-104.795504	0.8	1.1
BKG01@1'	01/09/2025	1	40.350392	-104.795504	0.8	1.1
BKG01@2'	01/09/2025	2	40.350392	-104.795504	0.8	0.7
BKG01@3'	01/09/2025	3	40.350392	-104.795504	0.8	0.6
BKG01@4'	01/09/2025	4	40.350392	-104.795504	0.8	0.6

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 ENERGY, INC. (100322)
SPOMER-65N66W 32SESE TANK BATTERY, WELD COUNTY, COLORADO
REM # 30722

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**		
AST01@0-6"	1/9/2025	0-0.5	<0.0020	0.0098	<0.0050	0.040	0.021	0.015	<0.0038	<50	0.69	<50	<50
PWV01-B@4'	1/9/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
PWV01-E@2'	1/9/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
PWV01-N@2'	1/9/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
PWV01-S@2'	1/9/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
PWV01-W@2'	1/9/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SEP01-DL@3'	1/9/2025	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SEP01-FL@3'	1/9/2025	3	<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. * Indicates laboratory minimum detection limit in excess of SSL.
 4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg.
- ECMC = Energy & Carbon Management Commission
(<) = 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

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY, INC. (100322)
SPOMER-65N66W 32SESE TANK BATTERY, WELD COUNTY, COLORADO
REM # 30722

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	1,800	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
AST01@0-6"	01/09/2025	0-0.5	<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	0.0124
PWV01-B@4'	01/09/2025	4	<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	0.00912
PWV01-E@2'	01/09/2025	2	<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
PWV01-N@2'	01/09/2025	2	<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
PWV01-S@2'	01/09/2025	2	<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
PWV01-W@2'	01/09/2025	2	<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	0.00548
SEP01-DL@3'	01/09/2025	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
SEP01-FL@3'	01/09/2025	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

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
- (<) = 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

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY, INC. (100322)
SPOMER-65N66W 32SESE TANK BATTERY, WELD COUNTY, COLORADO
REM # 30722

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
AST01@0-6"	1/9/2025	0-0.5	8.22	0.276	0.0980	<2.00
PWV01-B@4'	1/9/2025	4	8.42	0.229	0.304	<2.00
PWV01-E@2'	1/9/2025	2	8.37	0.176	0.0443	<2.00
PWV01-N@2'	1/9/2025	2	8.38	0.208	0.119	<2.00
PWV01-S@2'	1/9/2025	2	8.46	0.159	0.0296	<2.00
PWV01-W@2'	1/9/2025	2	8.25	0.198	0.0520	<2.00
SEP01-DL@3'	1/9/2025	3	8.27	0.277	0.0851	<2.00
SEP01-FL@3'	1/9/2025	3	8.41	0.239	0.235	<2.00
BKG01@0-6"	1/9/2025	0-0.5	7.96	0.456	0.101	<2.00
BKG01@1'	1/9/2025	1	8.01	0.548	0.242	<2.00
BKG01@2'	1/9/2025	2	8.36	0.454	0.627	<2.00
BKG01@3'	1/9/2025	3	7.78	3.50	0.599	<2.00
BKG01@4'	1/9/2025	4	7.89	3.09	1.07	<2.00
Maximum Background Concentration			8.36	-	-	-

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.

ECMC = Colorado Energy & Carbon Management Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

(<) = Analytical result is less than the indicated laboratory reporting limit.

ft. = Feet

bgs = Below ground surface

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY, INC. (100322)
SPOMER-65N66W 32SESE TANK BATTERY, WELD COUNTY, COLORADO
REM # 30722

Sample ID	Sample Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) ^[4] (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	15,000	71	0.3	3,100	400	1,500	390	390	23,000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
AST01@0-6"	1/9/2025	0-0.5	5.78	75.5	0.210	<0.30	6.11	10.1	5.77	0.270	0.0987	26.0
PWV01-B@4'	01/09/2025	4	5.37	54.9	<0.200	<0.30	4.93	7.80	5.37	0.425	0.109	21.8
PWV01-E@2'	01/09/2025	2	7.90	36.1	<0.200	<0.30	5.37	10.7	6.43	0.306	0.111	28.5
PWV01-N@2'	01/09/2025	2	6.58	46.2	<0.200	<0.30	5.14	8.96	5.64	<0.260	0.0997	24.9
PWV01-S@2'	01/09/2025	2	6.77	42.8	<0.200	<0.30	5.24	9.43	5.90	0.268	0.104	26.0
PWV01-W@2'	01/09/2025	2	6.69	47.8	<0.200	<0.30	5.55	9.36	6.45	<0.260	0.100	25.6
SEP01-DL@3'	01/09/2025	3	5.93	48.9	<0.200	<0.30	5.17	9.30	5.76	0.267	0.110	25.7
SEP01-FL@3'	01/09/2025	3	6.90	49.1	0.278	<0.30	5.69	10.7	6.04	0.283	0.116	27.8
BKG01@0-6"	01/09/2025	0-0.5	7.55	45.9	<0.200	<0.30	6.23	10.6	6.22	<0.260	0.129	26.8
BKG01@1'	01/09/2025	1	8.58	34.4	<0.200	<0.30	6.46	13.5	7.06	0.267	0.146	30.9
BKG01@2'	01/09/2025	2	22.6	33.4	0.328	<0.30	8.01	20.1	8.31	0.335	0.204	42.5
BKG01@3'	01/09/2025	3	8.53	15.7	<0.200	<0.30	5.48	11.6	6.27	<0.260	0.139	30.2
BKG01@4'	01/09/2025	4	10.4	15.1	<0.200	<0.30	4.98	11.4	6.62	<0.260	0.128	31.4
1.25x Maximum Background Concentration			28.3	-	-	-	-	-	-	0.419	-	-

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. Compound falls within ECMC Table 915-1 Footnote 9.
5. Non-detect background results accounted for in the highest background concentration by using the reporting limit.

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

* Indicates laboratory minimum detection limit in excess of SSL