

OPERATOR (NOBLE ENERGY, INC)

First Quarter 2025 Groundwater Monitoring Summary

Date 7/14/2025

FRANK CC #7-19

SENW Sec. 7 T4N-R63W

40.329994 / -104.484596

Weld County, Colorado

Remediation # 32307

This groundwater monitoring summary has been prepared by Confluence Compliance Companies, LLC for the former FRANK CC #7-19 (API 05-123-25351) location.

Site History and Background

Pursuant to Energy & Carbon Management Commission (ECMC) Rule 911, initial wellhead characterization sampling was completed on February 22, 2024, by a third-party consultant (Eagle Environmental Consulting, Inc.). Five soil samples were collected from the excavation sidewalls and base at depths of 6 to 7 feet below ground surface (bgs) and were submitted to Origins Laboratory Inc. (Origins) for analysis of all ECMC Table 915-1 constituents of concern. Additionally, one background sample was collected at 2 feet bgs, and analyzed for Table 915-1 Soil Suitability for Reclamation (SSR) parameters and Table 915-1 metals. Analytical results of the wellhead characterization samples indicated exceedances of Table 915-1 Protection of Groundwater Soil Screening Levels (PGSSLs) for benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, arsenic, barium, lead, and selenium. One SSR exceedance of sodium adsorption ratio (SAR) was detected. Organic constituents detected above PGSSLs were located at the north and east walls of the excavation at 6 feet bgs. The background elevated levels of electrical conductivity (EC), SAR, boron, arsenic, barium, lead, and selenium.

On December 12, 2024, initial flowline characterization sampling was completed by a third-party consultant (Tasman Geosciences Inc.). The flowline was partially removed and partially abandoned-in-place due to the presence of additional buried lines. Soil samples were collected from three bell holes situated along the extent of the removed portion of the flowline at two feet bgs for field screening. The samples from the wellhead and the abandonment-in-place connection point were submitted to Origins for analysis of all Table 915-1 constituents. Additionally, background samples were collected at 2 and 3 feet bgs and analyzed for SSRs and Table 915-1 metals. Analytical results of the flowline characterization samples indicate exceedances of Table 915-1 PGSSLs or SSRs for several organic constituents, pH, and metals. The flowline-separator connection point was not sampled during the December 2024 event; this assessment will occur in conjunction with tank battery decommissioning. The background sample reported elevated concentrations arsenic, barium, cadmium, lead, and selenium.

On February 24 and 25, 2025, Confluence conducted delineation sampling around the wellhead and collected additional background samples to further characterize native conditions. Five soil borings were advanced and completed as monitoring wells MW-01 through MW-05. Additionally, five background soil samples were collected. Analytical results of the soil samples indicated compliance with Table 915-1 PGSSLs for all organic constituents. Concentrations of arsenic, barium, lead, and selenium were detected at concentrations above PGSSLs. Analytical results for SSR parameters indicated compliance with Table 915-1, with the exception of SAR. Analytical results of the background samples indicated elevated levels of EC, SAR, boron, arsenic, barium, lead, and selenium.

Groundwater Monitoring Activities

In March 2025, Confluence returned to the location to develop monitoring wells MW-01 through MW-05, and on March 20, 2025, Confluence conducted first quarter 2025 groundwater monitoring. The monitoring wells were developed by surging with a dedicated bailer. The bailer was raised and lowered within the well casing to encourage sediment contained within the sand pack to be released. The bailer was then lowered to the bottom of the casing to remove sediment. Following development, the wells were allowed to recharge prior to sampling. Groundwater samples were collected from each monitoring well using disposable polyethylene bailers. Samples were field screened using visual and olfactory observations and water quality parameters including pH, dissolved oxygen, temperature, specific conductance, and oxidation reduction potential were collected using a YSI Professional Plus Multiparameter Instrument (YSI). Water quality parameters were monitored until all parameters stabilized within an acceptable range for three successive readings, or five total well volumes of water were purged, whichever came first. All samples were collected in laboratory provided containers, immediately placed on ice, and delivered to Origins under completed chain-of-custody forms for analysis of all Table 915-1 groundwater constituents of concern.

On June 26, 2025, Confluence returned to the location to conduct second quarter 2025 groundwater monitoring. However, the landowner denied access to the location due to active crops and requested that sampling be delayed until September 2025.

Current Remediation Strategy and Path Forward

As of the first quarter 2025 groundwater monitoring event conducted on March 20, 2025, only one round of groundwater sampling has been completed. Analytical results confirmed compliance with ECMC Table 915-1 standards for all organic constituents across the monitoring network. However, while elevated chloride and sulfate concentrations were observed, background values for these inorganics have not yet been established.

Based on the first quarter findings, Chevron plans to proceed with groundwater monitoring in September 2025, following the landowner's request to delay access due to crop activity. Additionally, the collection of background groundwater samples to establish representative native concentrations of inorganics. Quarterly groundwater monitoring will continue until compliance with all ECMC Table 915-1 groundwater standards can be demonstrated for four consecutive quarters.

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TABLE 1
SUMMARY OF GROUNDWATER ORGANIC CHEMISTRY DATA
OPERATOR (NOBLE 100322)
FRANK CC #7-19, WELD COUNTY, COLORADO
REM # 32307

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Depth to Groundwater ⁽²⁾ (ft. bgs)	Groundwater Elevation (ft. AMSL)	LNAPL Thickness (ft.)
ECMC Table 915-1 Limits ⁽¹⁾		5.0	560	700	1,400	140	67	67			
MW01	3/20/2025	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.81	4,604.14	NP
									0.00	0.00	0.00
									0.00	0.00	0.00
MW02	3/20/2025	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.67	4,604.21	NP
									0.00	0.00	0.00
									0.00	0.00	0.00
MW03	3/20/2025	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.80	4,604.14	NP
									0.00	0.00	0.00
									0.00	0.00	0.00
MW04	3/20/2025	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.70	4,604.10	NP
									0.00	0.00	0.00
									0.00	0.00	0.00
MW05	3/20/2025	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.80	4,604.14	NP
									0.00	0.00	0.00
									0.00	0.00	0.00

Notes:

- Groundwater standards referenced from 2 CCR 404-1, Table 915-1, January 15, 2021.
- Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

TMB = Trimethylbenzene
ECMC = Colorado Energy and Carbon Management Commission
LNAPL = Light Non-Aqueous Phase Liquid
µg/L = Micrograms per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
ft. = Feet
bgs = below ground surface
AMSL = Above Mean Sea Level
NM = Not measured
ND = Not detected
NA = Constituent not analyzed

Red highlighted groundwater analytical values indicate an exceedance of ECMC Groundwater Standard
Bold faced values exceed the ECMC Table 915-1 limit(s)

TABLE 2
SUMMARY OF GROUNDWATER INORGANIC CHEMISTRY DATA
OPERATOR (NOBLE 100322)
FRANK CC #7-19, WELD COUNTY, COLORADO
REM # 32307

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)	Depth to Groundwater ⁽²⁾ (ft. bgs)	Groundwater Elevation (ft. AMSL)
ECMC Table 915-1 Limits ⁽¹⁾		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background	-	-
MW01	03/20/25	3,520	391	1,660	5.81	4,604.14
					0.00	0.00
					0.00	0.00
MW02	03/20/25	3,450	320	1,590	5.67	4,604.21
					0.00	0.00
					0.00	0.00
MW03	03/20/25	4,980	526	2,370	5.80	4,604.14
					0.00	0.00
					0.00	0.00
MW04	03/20/25	1,670	214	707	5.70	4,604.10
					0.00	0.00
					0.00	0.00
MW05	03/20/25	3,860	448	1,950	5.80	4,604.14
					0.00	0.00
					0.00	0.00
Maximum BKG Concentration x1.25					-	-

Notes:

1. Groundwater standards referenced from 2 CCR 404-1, Table 915-1, January 15, 2021.

2. Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

ECMC = Colorado Energy and Carbon Management Commission

mg/L = Milligrams per liter

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

ft. = feet

bgs = below ground surface

AMSL = Above Mean Sea Level

NM = Not measured

NA = Constituent not analyzed

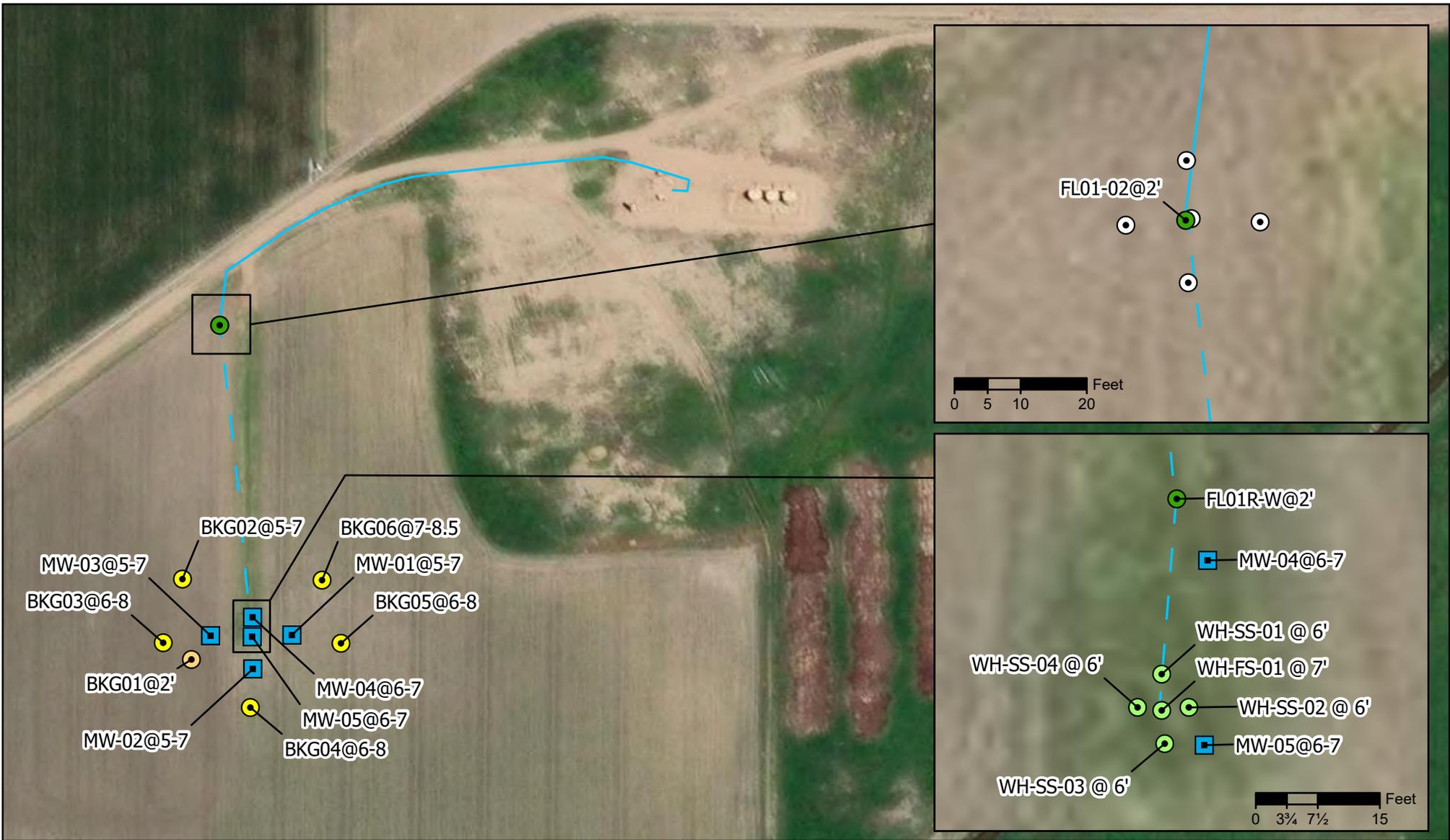
BKG = Background

 = Up-gradient and/or cross-gradient well location used for background concentration.

Maximum historic background concentration used to compare to site inorganic parameters

Bold faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.

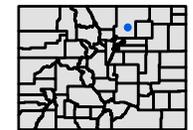
Bold faced values exceed the ECMC Table 915-1 limit(s) and greater than 1.25x background concentrations.



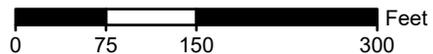
Site Diagram - Project Overview

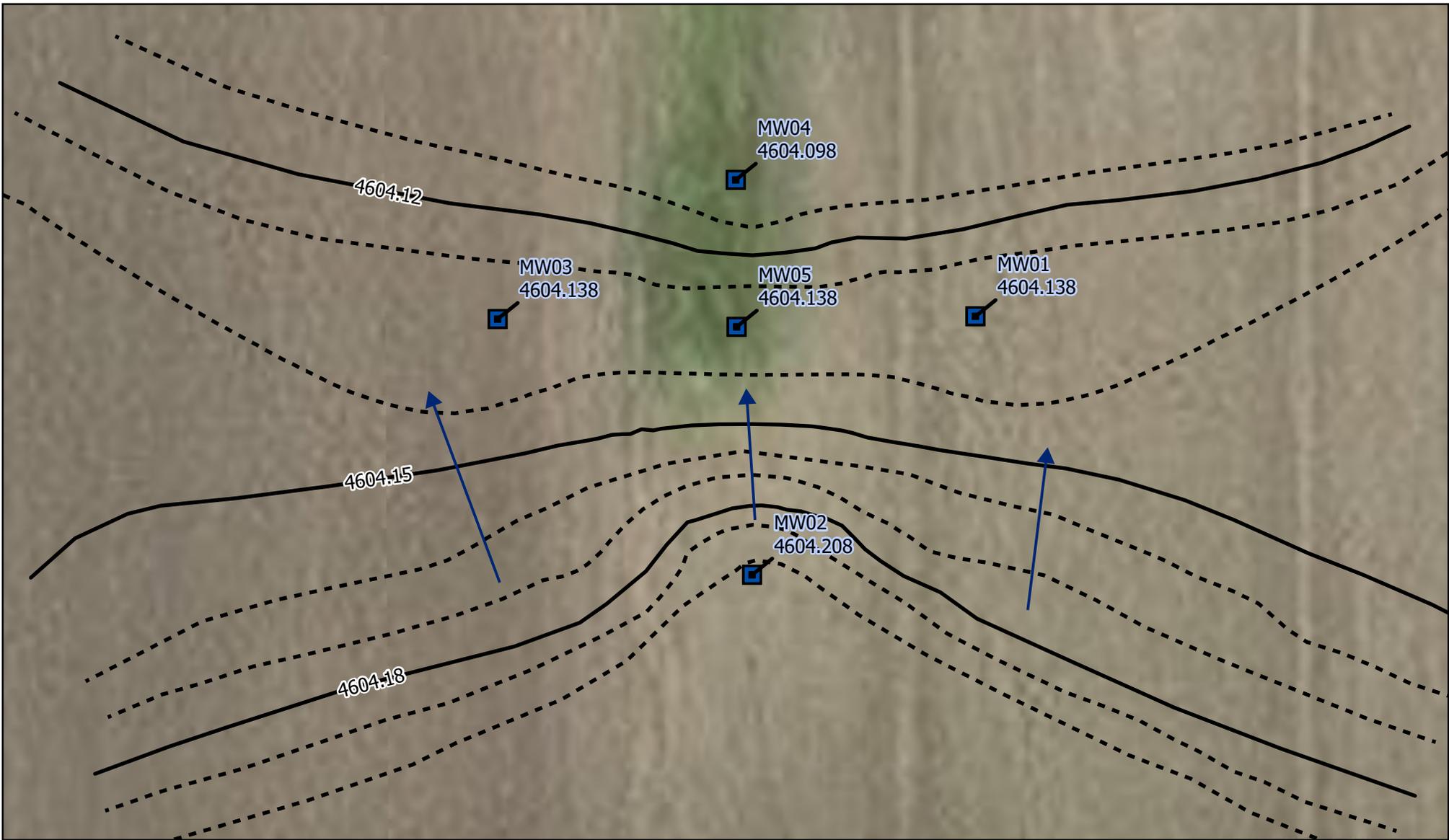
operator name (#): NOBLE ENERGY, INC. (100322)
 name (API/ID): FRANK CC #7-19 (05-123-25351)
 legal description: SENW Sec.7 T4N-R63W
 city, county: Unincorporated, Weld County
 lat/long: 40.329994 / -104.484596

- Soil Sample: Collected by Eagle 2/22/2024 (Locations to be Recharacterized)
- Soil Sample: Collected by Tasman 12/12/2024
- Background Soil Sample: Collected by Tasman 12/12/2024
- Soil Boring / Monitoring Well: Collected & Installed by Confluence 2/24-25/2025
- Background Soil Sample: Collected by Confluence 2/24/2025
- Proposed Delineation Soil Sample
- Approximate Flowline Location (Removed)
- Approximate Flowline Location (Abandoned in Place)



Spatial data was collected using a small unmanned aircraft system. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.





Site Diagram - Q1 2025 Groundwater Contours

operator name (#): NOBLE ENERGY, INC. (100322)

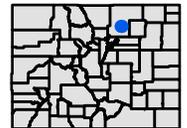
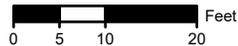
name (API/ID): Frank CC #7-19 (309760)

legal description: SENW Sec. 7 T4N-R63W 6

city, county: Unincorporated, Weld

lat/long: 40.329994 / -104.484596

- Monitoring Well
- Approximate Groundwater Flow Direction
- Groundwater Elevation (0.03 ft)
- Groundwater Elevation (0.01 ft)



Groundwater elevation data is relative, and was collected on 3/20/2025. Spatial data provided by Confluence Compliance Companies. This information is used for reference purposes only. Confluence does not guarantee the accuracy of this material and is not responsible for any misuse or misinterpretation of this information.