FLOWLINE ABANDONMENT FORM

SITE NAME: Hanscome C28-29D Flowline	**DATE:** 6/27/2024	**REM. PROJECT #:** 34734 / **WEATHER:** Sunny, 80s
SITE DIRECTIONS: N CR53 and E CR42, go E on CR42 for 0.49mi and turn S into	**CLIENT:** Noble	
LEGALS AND LAT/LONG: 40.290166, -104.556370	**TASMAN PERSONNEL:** LB	
SOIL TYPES: Well Graded Sand - SW	**SURFACE GRADIENT:** Southeast	

SOIL SAMPLING

Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?
6/27/2024 11:40	FL01R-S@2'	0.1	No Staining	No Odor	Yes	Lab
6/28/2024 08:00	FL01R-W@1'	0.1	No Staining	No Odor	Yes	Lab
6/28/2024 08:06	FL01-01@1'	0.1	No Staining	No Odor	Yes	Lab
6/28/2024 08:10	BKG01@1'	0.2	No Staining	No Odor	Yes	Lab
6/28/2024 08:12	BKG01@2'	0.1	No Staining	No Odor	Yes	Lab

FACILITY INFRASTRUCTURE

EQUIPMENT	Quantity	Photo?
Above Ground Storage Tank (AST)		
Buried or Partially Buried Vessel		
Separator		
Emission Control Device (ECD)		
Dump Line		
Wellhead		
Flowline		
Other:		

Soil Loads Removed

IMPACTED SOIL IDENTIFIED?

ESTIMATED VOLUME OF IMPACTS:

Date	Number	CY
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/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?

Date	BBLS
Total Removed	0
Disposal Facility:	

Date: 6/27/2024

GENERAL OBSERVATION FORM

Site Area/AOC: Hanscome C28-29D Flowline

Client: Noble

Daily Forecast/Weather: Sunny, 80s

Personnel: LB

Task/Location Description: Flowline Removal

Time	Description
11:27	On site
11:40	Finished JSA, Sampled at separator
11:45	Crew found PACM coating on Flowline, Jordan H on his way to sample
12:58	Jordan and Drew on site
15:10	Off site with Drew
	Day 2 (6/28/24)
	PACM Results: ND
06:48	On Site, waiting for crew
07:05	Finished JSA
07:40	Crew on site- finishing up a job at another location
08:00	Sampled at wellhead, FL01-01 and backgrounds
08:13	Begin jarring samples
08:25	Crew off site
08:33	Finished jarring samples, writing COC, site sketch, borelog
09:00	Off site

Need photo log? X

Photographic Log

Equipment ID:	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: FL01R-S@2' FACING SW		

Equipment ID:	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: FL01R-W@2' FACING SW		

TASMAN

Photographic Log

Equipment ID:	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: FL01-01@1' FACING E		

Equipment ID:	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: BKG01 FACING E		

SITE NAME: Hanscome C28-29D Flowline (FL01R-W & FL01-01)	DATE: 7/31/2024	REM. PROJECT #: 34734	WEATHER: Clear, 90s'
SITE DIRECTIONS: See Below	CLIENT: Noble		
LEGALS AND LAT/LONG: 40.290152, 104.556324	TASMAN PERSONNEL: SB		
SOIL TYPES: Clayey Sand - SC	SURFACE GRADIENT: East		

SOIL SAMPLING

Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?
7/31/2024 10:52	FS01-FL01R-W@2'	0.9	No Staining	No Odor	Yes	Lab
7/31/2024 10:54	SS01-FL01R-W@1'	0.5	No Staining	No Odor	Yes	Lab
7/31/2024 10:56	SS02-FL01R-W@1'	0.4	No Staining	No Odor	Yes	Lab
7/31/2024 10:58	SS03-FL01R-W@1'	0.3	No Staining	No Odor	Yes	Lab
7/31/2024 11:00	SS04-FL01R-W@1'	0.6	No Staining	No Odor	Yes	Lab
7/31/2024 13:00	FS01-FL01-01@2'	0.6	No Staining	No Odor	Yes	Lab
7/31/2024 13:02	SS01-FL01-01@1'	0.7	No Staining	No Odor	Yes	Lab
7/31/2024 13:04	SS02-FL01-01@1'	0.3	No Staining	No Odor	Yes	Lab
7/31/2024 13:06	SS03-FL01-01@1'	0.4	No Staining	No Odor	Yes	Lab
7/31/2024 13:08	SS04-FL01-01@1'	0.0	No Staining	No Odor	Yes	Lab
7/31/2024 12:01	BKG02@1'	0.0	No Staining	No Odor	Yes	Lab
7/31/2024 12:02	BKG02@2'	0.0	No Staining	No Odor	Yes	Lab
7/31/2024 12:22	BKG03@1'	0.0	No Staining	No Odor	Yes	Lab
7/31/2024 12:23	BKG03@2'	1.1	No Staining	No Odor	Yes	Lab
7/31/2024 12:32	BKG04@1'	0.3	No Staining	No Odor	Yes	Lab
7/31/2024 12:33	BKG04@2'	0.3	No Staining	No Odor	Yes	Lab
7/31/2024 12:50	BKG05@1'	0.3	No Staining	No Odor	Yes	Lab
7/31/2024 12:51	BKG05@2'	0.4	No Staining	No Odor	Yes	Lab

FACILITY INFRASTRUCTURE

EQUIPMENT	Quantity	Photo?
Above Ground Storage Tank (AST)	0	
Buried or Partially Buried Vessel	0	
Separator	0	
Emission Control Device (ECD)	0	
Dump Line	0	
Wellhead	0	
Flowline	0	
Other:		

Soil Loads Removed

IMPACTED SOIL IDENTIFIED? No

ESTIMATED VOLUME OF IMPACTS: -

Date	Number	CY
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/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?

Date	BBLS
Total Removed	0
Disposal Facility:	

Date: 7/31/2024

GENERAL OBSERVATION FORM

Site Area/AOC: Hanscome C28-29D Flowline (FL01R-W & FL01-01) Client: Noble

Daily Forecast/Weather: Clear, 90s' Personnel: SB

Task/Location Description: Excavation Oversight and Soil Sampling Activities

Time	Description
08:10	On Site - Crew: Tasman
	Site Coordinates:
	FL01-01: 40.290048, 104.556176, FL01R-W: 40.290152, 104.556324
	Extents: 15'x15'x2' bgs (2 separate excavations)
	Sampling Scope:
	Excavation Sampling: Submit sidewall and base samples for full 915 suite (VOC, TPH, PAH, metals, pH, SAR, EC and
	boron) on same-day turnaround time.
	Background Sampling: Collect BKG02-BKG05 from 1' and 2' below ground surfae.
	Submit for metals, pH, SAR, EC and boron on same-day turnaround time.
	Notes:
11:00	2 (two) trucks out
11:43	Crew called in a Hydra Vac to located a noble line before they could begin the FL01-01 excavation
14:19	Crew finished backfilling the FL01-01 excavation
14:20	2 (two) trucks out
	4 (four) Trucks were needed to backfill
	General Site Lithology:
	Brown, clayey sand, fine grain, well sorted, moist
	Site Directions:
	At the intersection of CR 53 and CR 42, head east for 0.48 miles, then turn south directly into site

Need photo log? X

Photographic Log

Equipment ID: FS01-FL01R-W@2'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: BASE		

Equipment ID: SS01-FL01R-W@1'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: NORTH WALL		

TASMAN

Photographic Log

Equipment ID: SS02-FL01R-W@1'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: EAST WALL		

Equipment ID: SS03-FL01R-W@1'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: SOUTH WALL		

Photographic Log

Equipment ID: SS04-FL01R-W@1'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: WEST WALL		

Equipment ID: FS01-FL01-01@2'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: BASE SAMPLE		

Photographic Log

Equipment ID: SS01-FL01-01@1'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: NORTH WALL		

Equipment ID: SS02-FL01-01@1'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: EAST WALL		

Photographic Log

Equipment ID: SS03-FL01-01@1'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: SOUTH WALL		

Equipment ID: SS04-FL01-01@1'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: WEST WALL		

Photographic Log

Equipment ID: BKG02@1', 2'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

Equipment ID: BKG03@1',2'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

Photographic Log

Equipment ID: BKG04@1',2'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

Equipment ID: BKG05@1',2'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions:		

SITE NAME: Hanscome C28-29D Excavation							**DATE:** 9/16/2024	**REM. PROJECT #:** 34734	**WEATHER:** Sunny 80s	
SITE DIRECTIONS: CR53/CR42; E on 42 (0.5mi) entrance to the facility pad on the south side of the roa							**CLIENT:** Noble			
LEGALS AND LAT/LONG: 40.2903285 -104.5559876							**TASMAN PERSONNEL:** Molly Parks			
SOIL TYPES: Silty Sand - SM							**SURFACE GRADIENT:** Southwest			
SOIL SAMPLING							**FACILITY INFRASTRUCTURE**			
Date/Time	**Soil Sample ID**	**PID (ppm)**	**Visual**	**Olfactory**	**Photo?**	**Grab or Lab Sample?**	**EQUIPMENT**		**Quantity**	**Photo?**
9/16/2024 11:54	SS05-FL01-01@3’	0.2	No Staining	No Odor	Yes	Lab	**Above Ground Storage Tank (AST)**			
9/16/2024 11:34	SS06-FL01-01@3’	0.1	No Staining	No Odor	Yes	Lab	**Buried or Partially Buried Vessel**			
9/16/2024 11:43	SS07-FL01-01@3’	0.1	No Staining	No Odor	Yes	Lab	**Separator**			
9/16/2024 11:45	SS08-FL01-01@1’	0.3	No Staining	No Odor	Yes	Lab	**Emission Control Device (ECD)**			
9/16/2024 11:47	SS09-FL01-01@3’	0.1	No Staining	No Odor	Yes	Lab	**Dump Line**			
9/16/2024 12:00	FS02-FL01-01@4’	0.0	No Staining	No Odor	Yes	Lab	**Wellhead**			
							Flowline			
							Other:			
9/16/2024 10:52	BKG06@3’	0.2	No Staining	Organic Odor	Yes	Lab	**Soil Loads Removed**			
9/16/2024 10:59	BKG06@4’	0.1	No Staining	Organic Odor	Yes	Lab	**IMPACTED SOIL IDENTIFIED?**			
							ESTIMATED VOLUME OF IMPACTS:			
							Date		**Number**	**CY**
							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:			

Date: 9/16/2024

GENERAL OBSERVATION FORM

Site Area/AOC: Hanscome C28-29D Excavation

Client: Noble

Daily Forecast/Weather: Sunny 80s

Personnel: Molly Parks

Task/Location Description: Excavation Oversight

Time	Description
	09-16-24
09:06	On Site/Starte JSA
	Scope of work: FS01-FL01@2' and SS04-FL01-01@1' both failed the first go around. The team will dig out the excavation
	Again and resample all the sidewalls and the base.
	Notes:
10:08	-Just finished JSA meeting and flagging out the excavation
10:16	-First round of trucks getting loaded
	-Excavation New Extent: 20x15x4'
12:39	-Trucks returned to site loaded
	-Facility still standing
13:23	-Started Backfilling
13:49	-Finished Backfilling
	Trucks
	- 2 rounds of 2 tandem trucks
	-Soil removed to buffalo and also brought in from buffalo
	-Total Removed: 40 yards
	-Total Brought in: 40 yards
14:00	Off Site

Need photo log? X

TASMAN

Photographic Log

Equipment ID:	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: Site photo facing north		

Equipment ID:	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: Site photo facing south		

TASMAN

Photographic Log

Equipment ID:	Equipment Type:		Equipment ID: SS06-FL01-01@3'	Equipment Type:	
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Facing north (Sample taken with the excavator) Soil Lithology: 0-1' SW well sorted sand, light tan, fine-coarse, dry, no odor or staining 1-3' SM Silty sand, poorly sorted, tan, fine grain, dry, no odor or staining			Notes/Conditions: Facing East Soil Lithology: 0-1' SW well sorted sand, light tan, fine-coarse, dry, no odor or staining 1-3' SM Silty sand, poorly sorted, brown, fine grain, dry, no odor or staining		

TASMAN

Photographic Log

Equipment ID: SS07-FL01-01@3'	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: Facing South Soil Lithology: 0-1' SW well sorted sand, light tan, fine-coarse, dry, no odor or staining 1-3' SM Silty sand, poorly sorted, brown, fine grain, dry, no odor or staining		

Equipment ID: West Side wall	Equipment Type:	
Material:	Volume:	Contents:
Notes/Conditions: Facing West -Resampled at 1' due t the original failed sample Soil Lithology: 0-1' SW well sorted sand, light tan, fine-coarse, dry, no odor or staining 1-3' SM Silty sand, poorly sorted, brown, fine grain, dry, no odor or staining		

Photographic Log

Equipment ID: FS02-FL01-01@4’	**Equipment Type:**	
Material:	**Volume:**	**Contents:**
Notes/Conditions: Sample was taken with the excavator Soil Sample Lithology: SM Silty sand, tan, fine gran, well sorted, dry, no odor or staining		

Equipment ID: BKG06@3, 4’	**Equipment Type:**	
Material:	**Volume:**	**Contents:**
Notes/Conditions: Back ground sample was taken west of the excavation n native soil off the pad Sample Soil Lithology: 0-3' SM silty sand, brown, fine grain, well sorted, dry, no staining, organic odor 3-4' SM silty sand, light tan, fine, dry, well sort, no staining, organic odor		

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE ENERGY, INC - 100322
HANSCOME C28-29D, WELD COUNTY, COLORADO
REM # 34734

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
FL01R-S@2'	6/27/2024	2	40.290059	-104.555949	0.9	0.1
FL01R-W@1'	6/28/2024	1	40.290152	-104.556324	0.9	0.1
FL01-01@1'	6/28/2024	1	40.290048	-104.556176	0.8	0.1
FS01-FL01R-W@2'	7/31/2024	2	40.290148	-104.556327	0.8	0.9
SS01-FL01R-W@1'	7/31/2024	1	40.290166	-104.556337	0.8	0.5
SS02-FL01R-W@1'	7/31/2024	1	40.290156	-104.556306	0.8	0.4
SS03-FL01R-W@1'	7/31/2024	1	40.290133	-104.556321	0.8	0.3
SS04-FL01R-W@1'	7/31/2024	1	40.290140	-104.556353	0.9	0.6
FS01-FL01-01@2'	7/31/2024	2	40.290051	-104.556174	1.1	0.6
SS01-FL01-01@1'	7/31/2024	1	40.290070	-104.556182	1.1	0.7
SS02-FL01-01@1'	7/31/2024	1	40.290056	-104.556148	1.0	0.3
SS03-FL01-01@1'	7/31/2024	1	40.290032	-104.556164	1.0	0.4
SS04-FL01-01@1'	7/31/2024	1	40.290046	-104.556195	1.0	0.0
SS05-FL01-01@3'	9/16/2024	3	40.290054	-104.556139	1.0	0.2
SS06-FL01-01@3'	9/16/2024	3	40.290078	-104.556185	0.8	0.1
SS07-FL01-01@3'	9/16/2024	3	40.290023	-104.556167	1.0	0.1
SS08-FL01-01@1'	9/16/2024	1	40.290041	-104.556214	0.8	0.3
SS09-FL01-01@3'	9/16/2024	3	40.290041	-104.556214	0.8	0.1
FS02-FL01-01@4'	9/16/2024	4	NC	NC	NC	NC
BKG01@1'	6/28/2024	1	40.290152	-104.556546	0.8	0.2
BKG01@2'	6/28/2024	2	40.290131	-104.556546	0.8	0.1
BKG02@1'	7/31/2024	1	40.289792	-104.556109	0.9	0.0
BKG02@2'	7/31/2024	2	40.289792	-104.556109	0.9	0.0
BKG03@1'	7/31/2024	1	40.289918	-104.556312	0.9	0.0
BKG03@2'	7/31/2024	2	40.289918	-104.556312	0.9	1.1
BKG04@1'	7/31/2024	1	40.290080	-104.556461	0.9	0.3
BKG04@2'	7/31/2024	2	40.290080	-104.556461	0.9	0.3
BKG05@1'	7/31/2024	1	40.290269	-104.556543	0.9	0.3
BKG05@2'	7/31/2024	2	40.290269	-104.556543	0.9	0.4
BKG06@3'	9/16/2024	3	40.290049	-104.556542	0.9	0.2
BKG06@4'	9/16/2024	4	40.290049	-104.556542	0.9	0.1
BG04@4-5'[3]	3/1/2024	4.5	40.290521	-104.573275	1.0	0.0
BG04@9-10'[3]	3/1/2024	9.5	40.290521	-104.573275	1.0	0.0
BG05@4-5'[3]	3/1/2024	4.5	40.290411	-104.573273	0.8	0.0
BG05@9-10'[3]	3/1/2024	9.5	40.290411	-104.573273	0.8	0.0
BG06@4-5'[3]	3/1/2024	4.5	40.290270	-104.573371	0.7	0.0
BG06@9-10'[3]	3/1/2024	9.5	40.290270	-104.573371	0.7	0.1
BG07@4-5'[3]	3/1/2024	4.5	40.290251	-104.573581	0.7	0.1
BG07@9-10'[3]	3/1/2024	9.5	40.290251	-104.573581	0.7	0.2
BG08@4-5'[3]	3/1/2024	4.5	40.290526	-104.574134	0.7	0.1
BG08@9-10'[3]	3/1/2024	9.5	40.290526	-104.574134	0.7	0.0

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE ENERGY, INC - 100322
HANSCOME C28-29D, WELD COUNTY, COLORADO
REM # 34734

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data Latitude/Longitude	PDOP Value	VOC Concentration (ppm)

Notes:

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).
3. Background sample collected under nearby Johnson 29-02 (REM# 25214) project.

PDOP = Position Dilution of Precision
ppm = Parts per million
ft. = Feet
bgs = Below ground surface
NC = Data not collected

= Source material characterization sample, excavated and transported off site for disposal.
= Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC - 100322
HANSCOME C28-29D, WELD COUNTY, COLORADO
REM # 34734

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-S@2 '	6/27/2024	2	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
FL01R-W@1'	6/28/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
FL01-01@1'	6/28/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
FS01-FL01R-W@2'	7/31/2024	2	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS01-FL01R-W@1'	7/31/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS02-FL01R-W@1'	7/31/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS03-FL01R-W@1'	7/31/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS04-FL01R-W@1'	7/31/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
FS01-FL01-01@2'	7/31/2024	2	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS01-FL01-01@1'	7/31/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS02-FL01-01@1'	7/31/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS03-FL01-01@1'	7/31/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS04-FL01-01@1'	7/31/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS05-FL01-01@3'	9/16/2024	3	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS06-FL01-01@3'	9/16/2024	3	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS07-FL01-01@3'	9/16/2024	3	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS08-FL01-01@1'	9/16/2024	1	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
SS09-FL01-01@3'	9/16/2024	3	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*
FS02-FL01-01@4'	9/16/2024	4	*<0.0020*	*<0.0050*	*<0.0050*	*<0.010*	*<0.0050*	*<0.0050*	*<0.0038*	*<50*	*<0.50*	*<50*	*<50*

Notes:

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

ECMC = Energy & Carbon Management Commission

(<), italics and gray = 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

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY, INC - 100322
HANSCOME C28-29D, WELD COUNTY, COLORADO
REM # 34734

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
FL01R-S@2'	06/27/2024	2	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	*<0.00500*	0.00979	*<0.00500*	*<0.00500*	*<0.00500*
FL01-01@1'	06/28/2024	1	0.0126	0.0260	**0.0308**	0.0220	0.0364	0.0121	0.0271	0.00629	0.0751	0.0162	0.0112	0.0757	*<0.00500*	*<0.00500*
FL01R-W@1'	06/28/2024	1	0.0566	0.0893	**0.100**	0.0653	0.113	0.0407	0.0915	0.0101	0.244	0.0667	0.0268	0.2680	**0.00651**	0.0132
FS01-FL01R-W@2'	7/31/2024	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*
SS01-FL01R-W@1'	7/31/2024	1	*<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*
SS02-FL01R-W@1'	7/31/2024	1	*<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*
SS03-FL01R-W@1'	7/31/2024	1	*<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*
SS04-FL01R-W@1'	7/31/2024	1	*<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*
FS01-FL01-01@2'	7/31/2024	2	*<0.00500*	0.00861	**0.0201**	0.0130	0.0197	0.00783	0.0212	*<0.00500*	0.0477	*<0.00500*	0.0114	0.0414	*<0.00500*	*<0.00500*
SS01-FL01-01@1'	7/31/2024	1	*<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*
SS02-FL01-01@1'	7/31/2024	1	*<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*
SS03-FL01-01@1'	7/31/2024	1	*<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*
SS04-FL01-01@1'	7/31/2024	1	0.120	0.214	**0.171**	**0.113**	0.149	0.0606	0.175	0.0153	0.437	0.187	0.105	0.379	**0.00985**	**0.0293**
SS05-FL01-01@3'	9/16/2024	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*
SS06-FL01-01@3'	9/16/2024	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*
SS07-FL01-01@3'	9/16/2024	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*
SS08-FL01-01@1'	9/16/2024	1	*<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*
SS09-FL01-01@3'	9/16/2024	3	*<0.00500*	*<0.00500*	0.00512	*<0.00500*	0.00560	*<0.00500*	0.00569	*<0.00500*	0.0115	*<0.00500*	*<0.00500*	0.0102	*<0.00500*	*<0.00500*
FS02-FL01-01@4'	9/16/2024	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*	*<0.00500*

Notes:

1. **Bold** values exceed the ECMC Table 915-1 limit(s)
2. Pink & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

ECMC = Colorado Energy & Carbon Management Commission
(<) = Analytical result is less than the indicated laboratory reporting limit.
ft. = Feet
bgs = Below ground surface
mg/kg = Milligrams per kilogram

= Source material characterization sample, excavated and transported off site for disposal.
= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY, INC - 100322
HANSCOME C28-29D, WELD COUNTY, COLORADO
REM # 34734

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-S@2'	06/27/2024	2	7.56	0.242	0.105	*<2.00*
FL01-01@1'	06/28/2024	1	7.81	0.922	2.29	*<2.00*
FL01R-W@1'	06/28/2024	1	**8.53**	0.232	0.394	*<2.00*
FS01-FL01R-W@2'	7/31/2024	2	**8.79**	1.08	1.05	**2.02**
SS01-FL01R-W@1'	7/31/2024	1	7.84	1.23	1.52	*<2.00*
SS02-FL01R-W@1'	7/31/2024	1	7.58	1.02	0.597	*<2.00*
SS03-FL01R-W@1'	7/31/2024	1	8.22	0.801	0.391	*<2.00*
SS04-FL01R-W@1'	7/31/2024	1	7.11	2.46	2.34	*<2.00*
FS01-FL01-01@2'	7/31/2024	2	7.92	1.65	3.43	*<2.00*
SS01-FL01-01@1'	7/31/2024	1	7.80	1.69	1.25	*<2.00*
SS02-FL01-01@1'	7/31/2024	1	7.31	1.24	0.314	*<2.00*
SS03-FL01-01@1'	7/31/2024	1	7.89	1.31	1.06	*<2.00*
SS04-FL01-01@1'	7/31/2024	1	7.63	2.48	2.80	*<2.00*
SS05-FL01-01@3'	9/16/2024	3	8.13	1.26	4.12	*<2.00*
SS06-FL01-01@3'	9/16/2024	3	8.08	0.964	3.14	*<2.00*
SS07-FL01-01@3'	9/16/2024	3	8.07	1.18	3.62	*<2.00*
SS08-FL01-01@1'	9/16/2024	1	7.62	3.12	4.14	*<2.00*
SS09-FL01-01@3'	9/16/2024	3	7.52	**4.20**	5.45	*<2.00*
FS02-FL01-01@4'	9/16/2024	4	7.89	1.83	**6.86**	*<2.00*
BKG01@1'	06/28/2024	1	8.55	0.470	1.12	<2.00
BKG01@2'	06/28/2024	2	8.67	0.268	0.996	<2.00
BKG02@1'	7/31/2024	1	8.65	1.34	1.28	<2.00
BKG02@2'	7/31/2024	2	8.90	0.902	1.29	<2.00
BKG03@1'	7/31/2024	1	8.35	1.27	0.977	<2.00
BKG03@2'	7/31/2024	2	8.12	1.32	1.14	<2.00
BKG04@1'	7/31/2024	1	7.96	1.37	0.959	<2.00
BKG04@2'	7/31/2024	2	8.34	1.26	1.04	<2.00
BKG05@1'	7/31/2024	1	6.76	0.949	1.32	<2.00
BKG05@2'	7/31/2024	2	6.22	2.10	1.66	<2.00
BKG06@3'	9/16/2024	3	8.44	0.942	1.98	<2.00
BKG06@4'	9/16/2024	4	8.42	2.52	5.98	<2.00
BG04@4-5'[4]	3/1/2024	4.5	8.90	1.92	18.7	3.52
BG04@9-10'[4]	3/1/2024	9.5	9.50	0.847	5.10	<2.00
BG05@4-5'[4]	3/1/2024	4.5	8.66	2.65	18.5	<2.00
BG05@9-10'[4]	3/1/2024	9.5	8.49	5.21	17.8	<2.00

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
BG06@4-5'[4]	3/1/2024	4.5	8.52	3.65	11.2	<2.00
BG06@9-10'[4]	3/1/2024	9.5	9.15	2.84	20.3	<2.00
BG07@4-5'[4]	3/1/2024	4.5	8.75	1.03	6.01	<2.00
BG07@9-10'[4]	3/1/2024	9.5	8.86	2.72	15.9	<2.00
BG08@4-5'[4]	3/1/2024	4.5	8.38	0.128	0.311	<2.00
BG08@9-10'[4]	3/1/2024	9.5	8.68	0.167	0.693	<2.00
Maximum Background Concentration			9.50	5.21	20.3	3.52

Notes:

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) above native background concentrations.
3. Brown highlighted soil analytical values indicate a regulatory exceedance.
4. Background sample collected under nearby Johnson 29-02 (REM# 25214) project.

ECMC = Colorado Energy & Carbon Management Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = millgram per liter

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

ft. = Feet

bgs = Below ground surface

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY, INC - 100322
HANSCOME C28-29D, WELD COUNTY, COLORADO
REM # 34734

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
FL01R-S@2'	06/27/2024	2	**1.99**	44.1	*<0.200*	*<0.30*	6.75	6.16	2.91	*<0.260*	0.0340	29.3
FL01-01@1'	06/28/2024	1	**2.78**	58.4	0.241	*<0.30*	5.64	8.80	3.99	*<0.260*	0.0325	22.1
FL01R-W@1'	06/28/2024	1	**2.95**	75.0	0.215	*<0.30*	5.05	**45.8**	4.73	*<0.260*	0.0414	20.5
FS01-FL01R-W@2'	7/31/2024	2	**3.11**	78.8	0.269	*<0.30*	6.17	**101**	4.42	*<0.234*	0.0428	24.2
SS01-FL01R-W@1'	7/31/2024	1	**2.94**	**98.6**	0.258	*<0.30*	6.34	**192**	4.48	*<0.260*	0.0515	26.2
SS02-FL01R-W@1'	7/31/2024	1	**3.19**	58.0	0.283	*<0.30*	5.70	8.60	4.40	*<0.260*	0.0329	20.2
SS03-FL01R-W@1'	7/31/2024	1	**3.24**	81.4	0.218	*<0.30*	4.97	**23.9**	4.40	*<0.260*	0.0304	20.0
SS04-FL01R-W@1'	7/31/2024	1	**3.30**	59.9	0.295	*<0.30*	5.82	9.13	4.96	*<0.260*	0.0471	22.6
FS01-FL01-01@2'	7/31/2024	2	**3.11**	60.0	0.203	*<0.30*	4.63	6.65	4.36	*<0.260*	0.0319	19.3
SS01-FL01-01@1'	7/31/2024	1	**3.04**	60.7	0.252	*<0.30*	5.50	7.86	4.09	*<0.260*	0.0282	18.8
SS02-FL01-01@1'	7/31/2024	1	**2.51**	42.5	0.207	*<0.30*	4.71	6.29	3.39	*<0.260*	0.0204	16.1
SS03-FL01-01@1'	7/31/2024	1	**3.21**	42.8	*<0.200*	*<0.30*	4.71	6.22	3.36	*<0.260*	0.0232	15.3
SS04-FL01-01@1'	7/31/2024	1	**2.80**	54.2	0.213	*<0.30*	5.05	7.33	3.91	*<0.260*	0.0257	19.7
SS05-FL01-01@3'	9/16/2024	3	**3.55**	76.4	0.214	*<0.30*	4.56	7.20	5.18	*<0.260*	0.0651	20.8
SS06-FL01-01@3'	9/16/2024	3	**4.08**	**84.4**	0.218	*<0.30*	4.96	8.10	5.65	*<0.260*	0.0474	21.3
SS07-FL01-01@3'	9/16/2024	3	**3.45**	54.3	0.255	*<0.30*	4.54	5.97	5.00	*<0.260*	0.0216	18.7
SS08-FL01-01@3'	9/16/2024	3	**2.73**	56.2	0.206	*<0.30*	4.76	7.12	4.17	*<0.260*	0.0291	19.4
SS09-FL01-01@3'	9/16/2024	3	**3.20**	62.2	0.227	*<0.30*	4.96	8.00	4.60	*<0.260*	0.0340	20.5
FS02-FL01-01@4'	9/16/2024	4	**3.35**	**90.7**	0.240	*<0.30*	4.79	8.06	5.78	*<0.260*	0.0575	21.2
BKG01@1'	06/28/2024	1	2.74	42.9	0.200	*<0.30*	4.39	6.62	3.45	*<0.260*	0.0222	15.6
BKG01@2'	06/28/2024	2	2.85	49.6	*<0.200*	*<0.30*	4.61	6.94	3.88	*<0.260*	0.0223	16.4
BKG02@1'	7/31/2024	1	5.39	86.6	0.329	*<0.30*	6.50	10.2	5.24	*<0.260*	0.0426	23.0
BKG02@2'	7/31/2024	2	2.99	47.6	*<0.200*	*<0.30*	4.23	5.15	3.62	*<0.260*	*<0.0200*	15.4
BKG03@1'	7/31/2024	1	2.72	50.3	0.234	*<0.30*	5.10	7.21	3.85	*<0.260*	0.0274	18.7
BKG03@2'	7/31/2024	2	2.95	48.9	0.205	*<0.30*	5.28	6.00	3.60	*<0.260*	0.0222	15.9
BKG04@1'	7/31/2024	1	2.33	48.1	0.232	*<0.30*	5.92	6.96	3.66	*<0.236*	0.0282	22.2
BKG04@2'	7/31/2024	2	3.05	51.7	0.211	*<0.30*	4.68	6.44	3.66	*<0.260*	0.0205	16.7
BKG05@1'	7/31/2024	1	2.89	47.7	*<0.200*	*<0.30*	4.50	6.98	3.59	*<0.260*	0.0248	17.2
BKG05@2'	7/31/2024	2	3.19	57.1	*<0.200*	*<0.30*	4.20	5.89	3.91	*<0.260*	0.0220	16.5

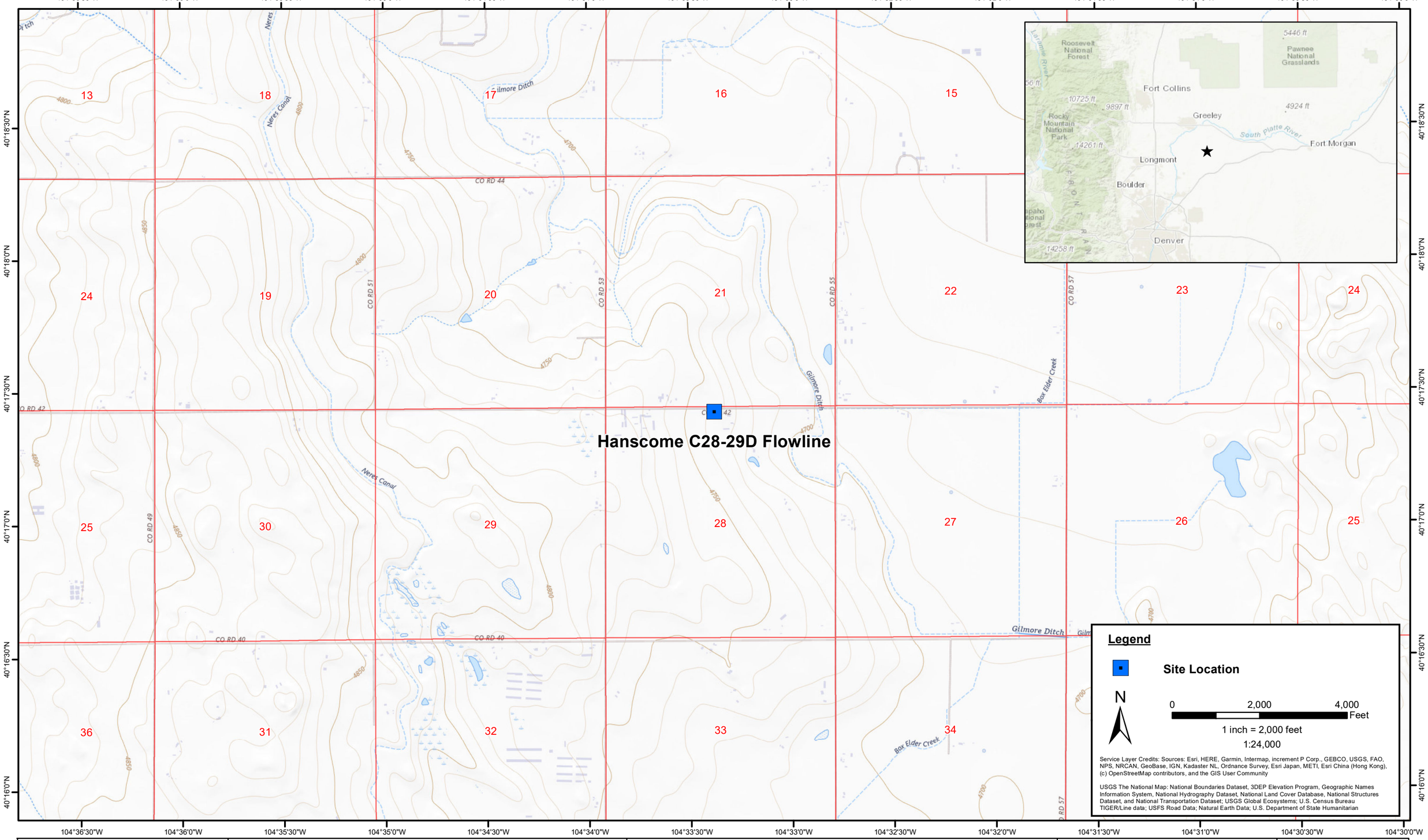
Sample ID	Sample Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI)[4] (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG06@3'	9/16/2024	3	3.45	83.4	*<0.200*	*<0.30*	4.04	6.97	5.56	*<0.260*	0.0464	19.4
BKG06@4'	9/16/2024	4	4.93	171	0.279	*<0.30*	5.77	6.35	7.40	*<0.260*	0.0628	18.0
BG04@4-5'[6]	3/1/2024	4.5	3.91	94.2	*<0.200*	*NA*	*NA*	7.51	*NA*	*<0.260*	*NA*	*NA*
BG04@9-10'[6]	3/1/2024	9.5	1.74	117	*<0.200*	*NA*	*NA*	5.64	*NA*	*<0.260*	*NA*	*NA*
BG05@4-5'[6]	3/1/2024	4.5	2.35	63.5	*<0.200*	*NA*	*NA*	4.72	*NA*	*<0.260*	*NA*	*NA*
BG05@9-10'[6]	3/1/2024	9.5	1.72	73	*<0.200*	*NA*	*NA*	4.36	*NA*	*<0.260*	*NA*	*NA*
BG06@4-5'[6]	3/1/2024	4.5	1.38	76.2	*<0.200*	*NA*	*NA*	4.48	*NA*	*<0.260*	*NA*	*NA*
BG06@9-10'[6]	3/1/2024	9.5	1.42	34.9	*<0.200*	*NA*	*NA*	3.42	*NA*	*<0.260*	*NA*	*NA*
BG07@4-5'[6]	3/1/2024	4.5	1.72	55.5	*<0.200*	*NA*	*NA*	3.83	*NA*	*<0.260*	*NA*	*NA*
BG07@9-10'[6]	3/1/2024	9.5	1.66	37.9	*<0.200*	*NA*	*NA*	3.85	*NA*	*<0.260*	*NA*	*NA*
BG08@4-5'[6]	3/1/2024	4.5	2.46	62.6	*<0.200*	*NA*	*NA*	5.02	*NA*	*<0.260*	*NA*	*NA*
BG08@9-10'[6]	3/1/2024	9.5	2.39	77.8	*<0.200*	*NA*	*NA*	5.30	*NA*	*<0.260*	*NA*	*NA*
Maximum Background Concentration			5.39	171	-	-	-	10.2	-	-	-	-
Maximum Background Concentration X 1.25			6.74	214	-	-	-	12.8	-	-	-	-
Mean Background Concentration			2.74	65.4	-	-	-	6.81	-	-	-	-
Mean Background Concentration X 1.25			3.42	81.8	-	-	-	8.51	-	-	-	-

Notes:

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) above 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.
6. Background sample collected under nearby Johnson 29-02 (REM# 25214) project.

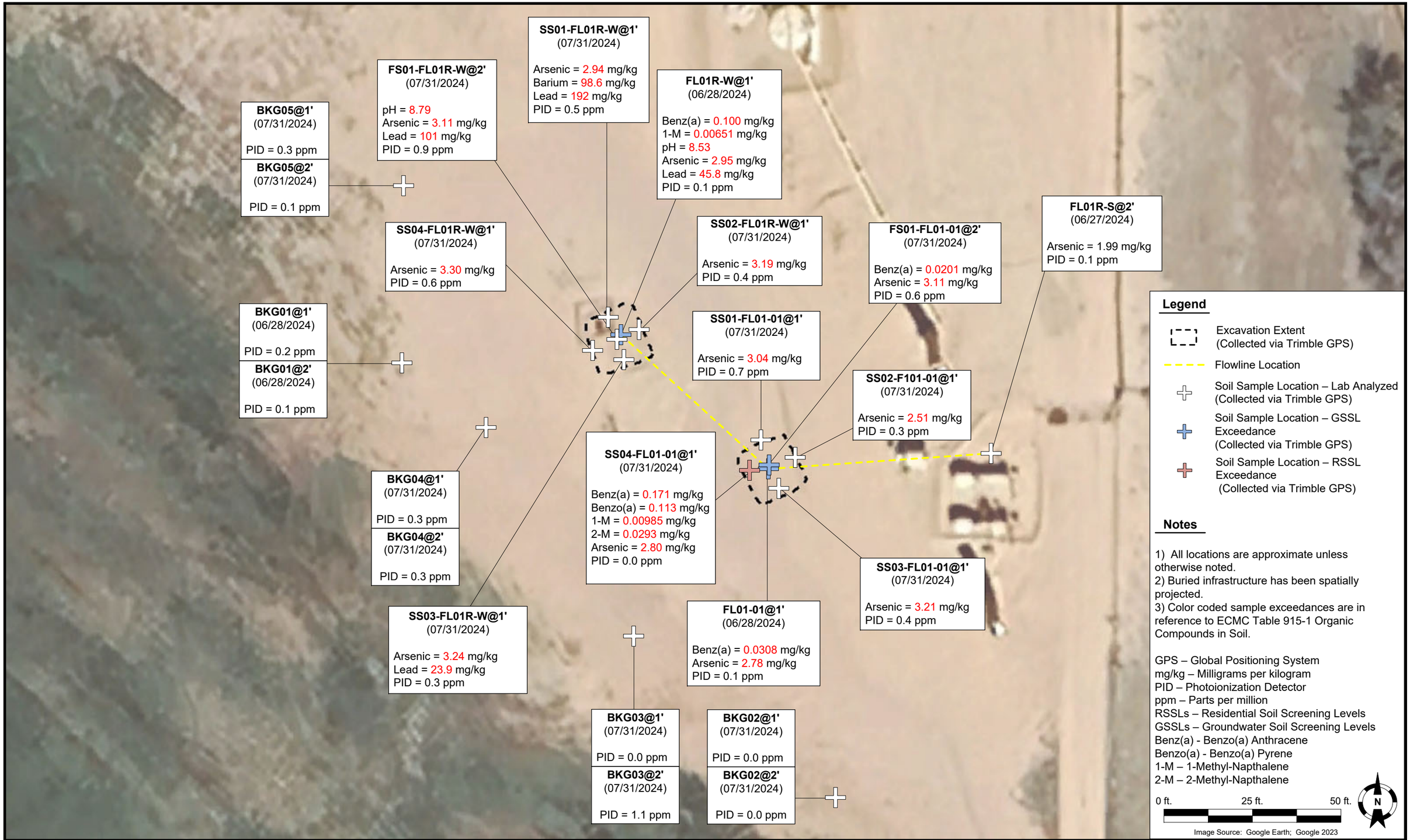
ECMC = Energy & Carbon Management Commission
(<) = Analytical result is less than the indicated laboratory reporting limit.
mg/kg = Milligrams per kilogram
ft. = Feet
bgs = Below ground surface
NA = Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.
= Material excavated and transported off site for disposal.

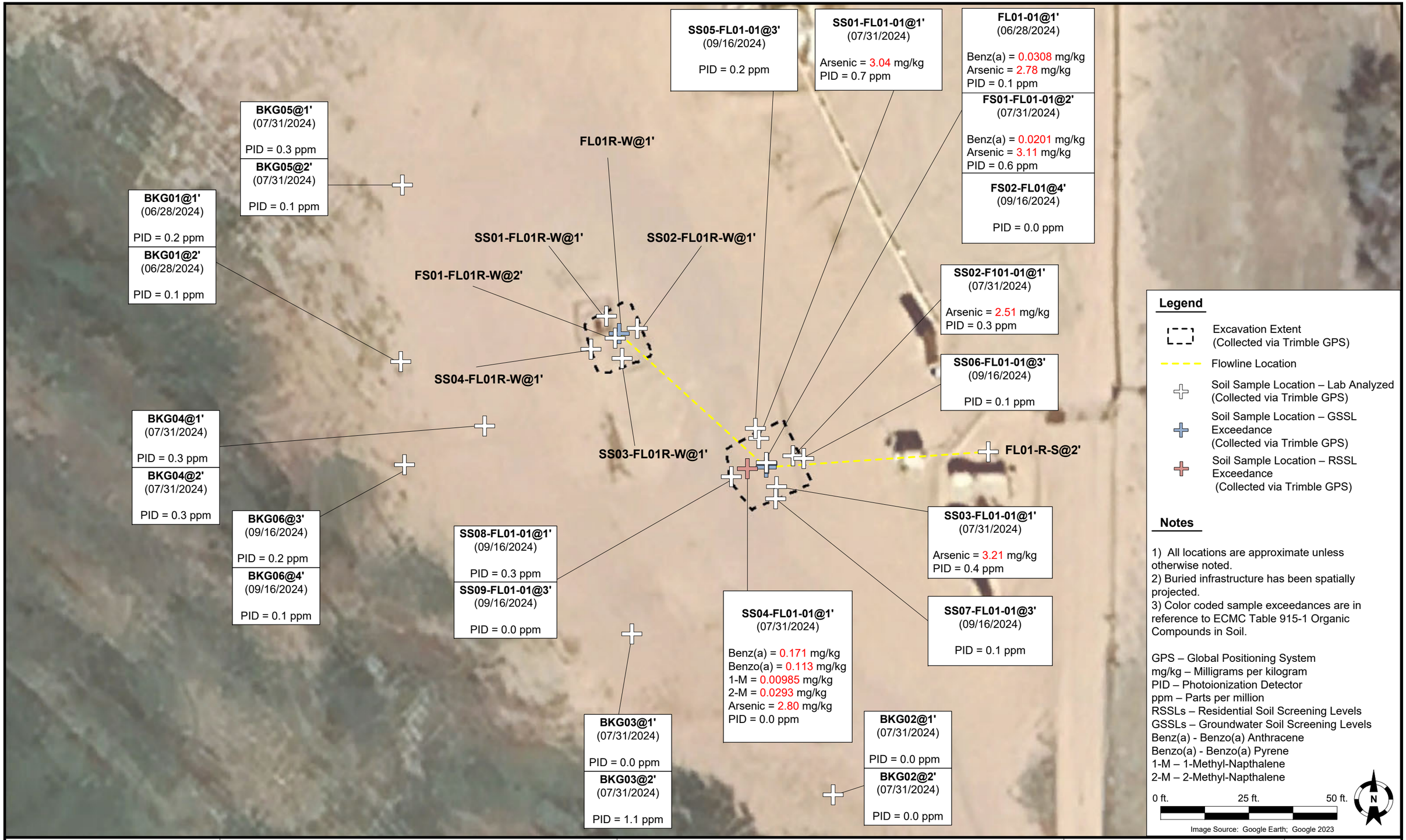


DATE: July 2024 DESIGNED BY: B. Nelson DRAWN BY: J. Clonts	**Tasman, Inc.** **6855 W. 119th Ave** **Broomfield, CO 80020**	**Noble Energy, Inc. – DJ Basin** **Hanscome C28-29D Flowline** NENW, Section 28, Township 4 North, Range 64 West Weld County, Colorado	Site Location Map	Figure 1

DATE: 07/16/2024 DESIGNED BY: JW DRAWN BY: ML	TASMAN Tasman, Inc. 6855 W 119th Avenue Broomfield, CO 80020	**Noble Energy, Inc. – DJ Basin** **Hanscome C28-29D** NENW, Section 28, Township 4 North, Range 64 West Weld County, Colorado	Flowline Closure & Soil Analytical Results Map (06/27/2024 & 06/28/2024)	FIGURE 2



DATE: 09/04/2024 DESIGNED BY: JW DRAWN BY: L. Bohannon	TASMAN Tasman, Inc. 6855 W 119th Avenue Broomfield, CO 80020	**Noble Energy, Inc. – DJ Basin** **Hanscome C28-29D** NENW, Section 28, Township 4 North, Range 64 West Weld County, Colorado	Excavation Soil Analytical Results Map (06/27/2024 – 06/28/2024, 07/31/2024)	FIGURE 3



DATE: 09/16/2024 DESIGNED BY: JW DRAWN BY: JC	TASMAN Tasman, Inc. 6855 W 119th Avenue Broomfield, CO 80020	**Noble Energy, Inc. – DJ Basin** **Hanscome C28-29D** NENW, Section 28, Township 4 North, Range 64 West Weld County, Colorado	Excavation Soil Analytical Results Map (06/27/2024 – 06/28/2024, 07/31/2024, 09/16/2024)	FIGURE 4

104°34'30"W

104°34'0"W

104°33'30"W

40°17'30"N

CO RD 53

CO RD 42

Johnson RC 29-02

Hanscome C28-29D

4820

4710

Legend

Marsh or Swamp

Site Location

N

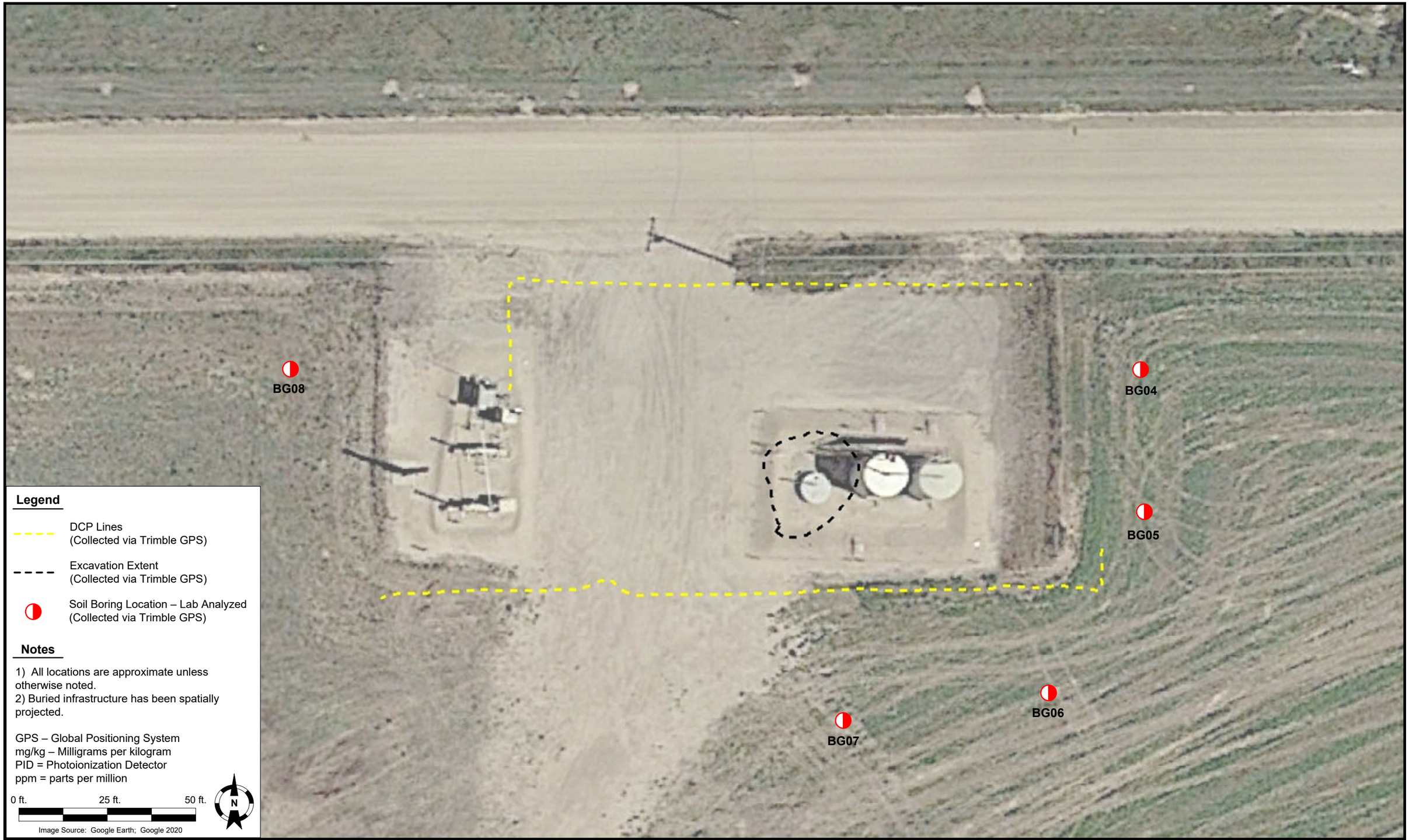
0 500 1,000 Feet

1 inch = 500 feet

1:6,000

Service Layer Credits: 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 Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed April, 2023.

DATE: October 2024 DESIGNED BY: J. Whritenour DRAWN BY: J. Woffinden	TASMAN EST. 2009	**Tasman, Inc.** **6855 W. 119th Ave** **Broomfield, CO 80020**	**Noble Energy Inc. - 100322 - DJ Basin** **Hanscome C28-29D** NENW, Section 28, Township 4 North, Range 64 West Weld County, Colorado	Site Location Map	Figure 5



Legend

- DCP Lines (Collected via Trimble GPS)
- Excavation Extent (Collected via Trimble GPS)
- Soil Boring Location – Lab Analyzed (Collected via Trimble GPS)

Notes

1) All locations are approximate unless otherwise noted.
2) Buried infrastructure has been spatially projected.

GPS – Global Positioning System
mg/kg – Milligrams per kilogram
PID = Photoionization Detector
ppm = parts per million

0 ft. 25 ft. 50 ft.

N

Image Source: Google Earth; Google 2020

DATE:	10/22/2024
DESIGNED BY:	JW
DRAWN BY:	L. Moran

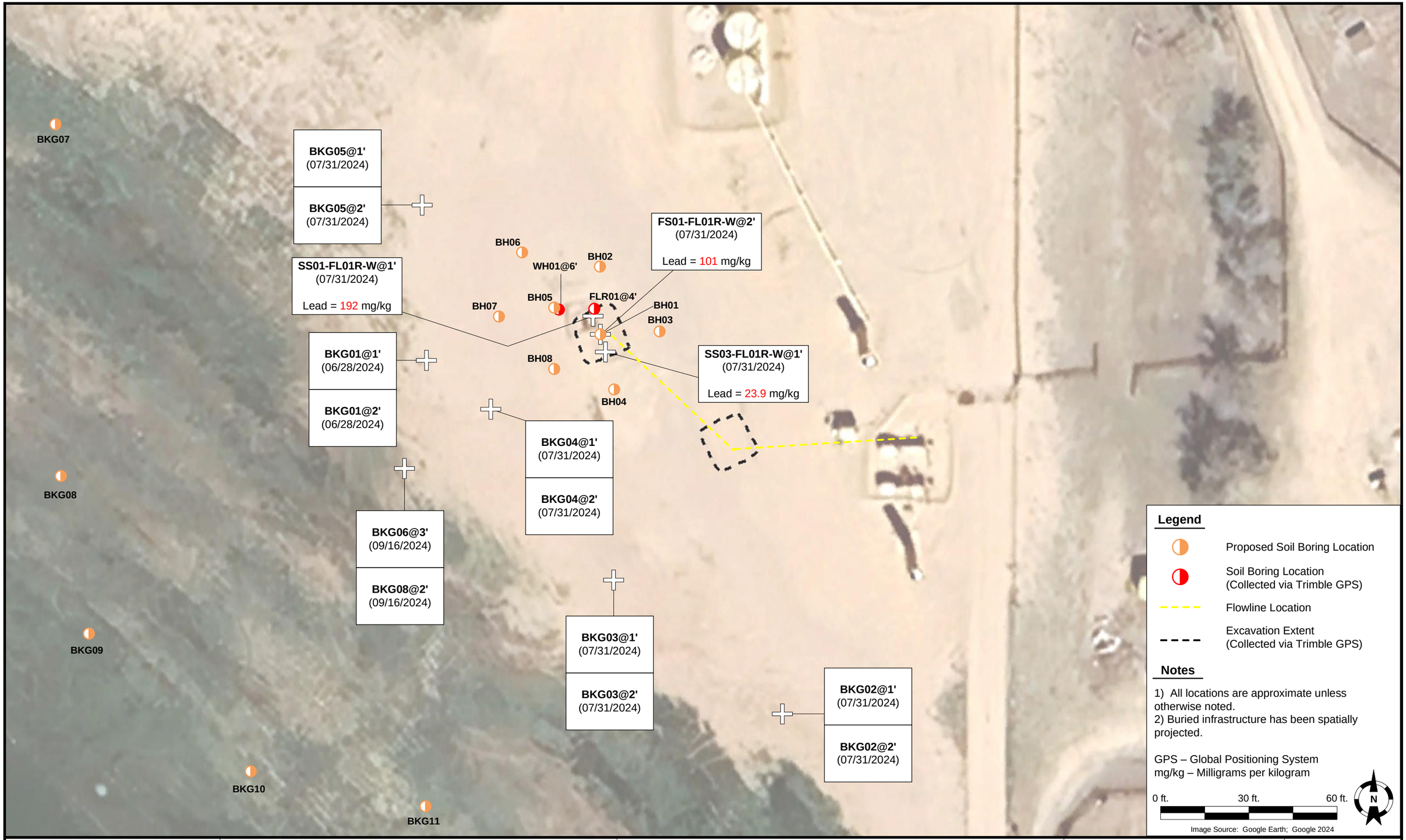
TASMAN

Tasman, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Former Johnson RC 29-02
NWNE, Section 29, Township 4 North, Range 64 West
Weld County, Colorado

Background Soil Sample Locations (03/01/2024)

FIGURE 6



DATE:	10/22/2024
DESIGNED BY:	J. Whritenour
DRAWN BY:	L. Moran

TASMAN

Tasman, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Former Hanscome C28-29D
NENW, Section 28, Township 4 North, Range 64 West
Weld County, Colorado

Proposed Soil Boring Location Map

FIGURE 7

ATTACHMENT A

BORING LOGS

TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Tasman	**Johnson RC 29-02**
LOGGED BY: Patrick Kline	
PROJECT MANAGER: Jake Whritenour	**BORING / WELL ID:** BG04
DRILLING CONTRACTOR: Tasman	
DRILLING EQUIPMENT: Hand Auger	**LOCATION:** Weld County, Colorado
DRILL BIT SIZE (INCHES): 3.25"	**LATITUDE (NAD 83):** 40.290521
DATE STARTED - COMPLETED: 3/1/24-3/1/24	**LONGITUDE (NAD 83):** -104.573275
TOTAL WELL DEPTH (FT. BGS): 10	**GROUND ELEVATION (FT. AMSL):** NM
DEPTH TO WATER (FT. BGS): NM	**ABANDONMENT METHOD:** Native Material

Depth (feet)	Drill Tooling	% Rec. (25, 50, 75)	Lithologic Description	USCS	PID (ppm) (100, 1000)	Lab	Depth (feet)
0			Brown, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor				0
			Tan, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor	SP			
5							5
			Tan, fine grained sand, poorly graded, moist, medium dense, non cohesive, no staining, no odor				
10							10

Drilling / Sample Method:

- Macro-Core
- Hollow Stem Auger
- Solid Stem Auger
- Hand Auger

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab

TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Tasman	**Johnson RC 29-02**
LOGGED BY: Patrick Kline	
PROJECT MANAGER: Jake Whritenour	**BORING / WELL ID:** BG05
DRILLING CONTRACTOR: Tasman	
DRILLING EQUIPMENT: Hand Auger	**LOCATION:** Weld County, Colorado
DRILL BIT SIZE (INCHES): 3.25"	**LATITUDE (NAD 83):** 40.290411
DATE STARTED - COMPLETED: 3/1/24-3/1/24	**LONGITUDE (NAD 83):** -104.573273
TOTAL WELL DEPTH (FT. BGS): 10	**GROUND ELEVATION (FT. AMSL):** NM
DEPTH TO WATER (FT. BGS): NM	**ABANDONMENT METHOD:** Native Material

Depth (feet)	Drill Tooling	% Rec. (25, 50, 75)	Lithologic Description	USCS	PID (ppm) (100, 1000)	Lab	Depth (feet)
0			Brown, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor				0
			Tan, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor	SP			
5							5
			Light tan, fine grained sand, poorly graded, moist, medium dense, non cohesive, no staining, no odor				
10							10

Drilling / Sample Method:
- Macro-Core
- Hollow Stem Auger
- Solid Stem Auger
- Hand Auger

Laboratory Sample Types:
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab

TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Tasman	**Johnson RC 29-02**
LOGGED BY: Patrick Kline	
PROJECT MANAGER: Jake Whritenour	**BORING / WELL ID:** BG06
DRILLING CONTRACTOR: Tasman	
DRILLING EQUIPMENT: Hand Auger	**LOCATION:** Weld County, Colorado
DRILL BIT SIZE (INCHES): 3.25"	**LATITUDE (NAD 83):** 40.29027
DATE STARTED - COMPLETED: 3/1/24-3/1/24	**LONGITUDE (NAD 83):** -104.573371
TOTAL WELL DEPTH (FT. BGS): 10	**GROUND ELEVATION (FT. AMSL):** NM
DEPTH TO WATER (FT. BGS): NM	**ABANDONMENT METHOD:** Native Material

Depth (feet)	Drill Tooling	% Rec. (25, 50, 75)	Lithologic Description	USCS	PID (ppm) (100, 1000)	Lab	Depth (feet)
0			Brown, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor				0
			Light tan, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor	SP			
5			Tan, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor				5
			Light tan, fine grained sand, poorly graded, moist, medium dense, non cohesive, no staining, no odor				
10							10

Drilling / Sample Method:
- Macro-Core
- Hollow Stem Auger
- Solid Stem Auger
- Hand Auger

Laboratory Sample Types:
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab

TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Tasman	**Johnson RC 29-02**
LOGGED BY: Patrick Kline	
PROJECT MANAGER: Jake Whritenour	**BORING / WELL ID:** BG07
DRILLING CONTRACTOR: Tasman	
DRILLING EQUIPMENT: Hand Auger	**LOCATION:** Weld County, Colorado
DRILL BIT SIZE (INCHES): 3.25"	**LATITUDE (NAD 83):** 40.290251
DATE STARTED - COMPLETED: 3/1/24-3/1/24	**LONGITUDE (NAD 83):** -104.573581
TOTAL WELL DEPTH (FT. BGS): 10	**GROUND ELEVATION (FT. AMSL):** NM
DEPTH TO WATER (FT. BGS): NM	**ABANDONMENT METHOD:** Native Material

Depth (feet)	Drill Tooling	% Rec. (25, 50, 75)	Lithologic Description	USCS	PID (ppm) (100, 1000)	Lab	Depth (feet)
0			Brown, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor				0
			Light tan, fine grained sand, poorly graded, damp, medium dense, non cohesive, no staining, no odor				
5				SP			5
			Tan, fine grained sand, poorly graded, moist, medium dense, non cohesive, no staining, no odor				
			Light tan, fine grained sand, poorly graded, moist, medium dense, non cohesive, no staining, no odor				
10							10

Drilling / Sample Method:

- Macro-Core
- Hollow Stem Auger
- Solid Stem Auger
- Hand Auger

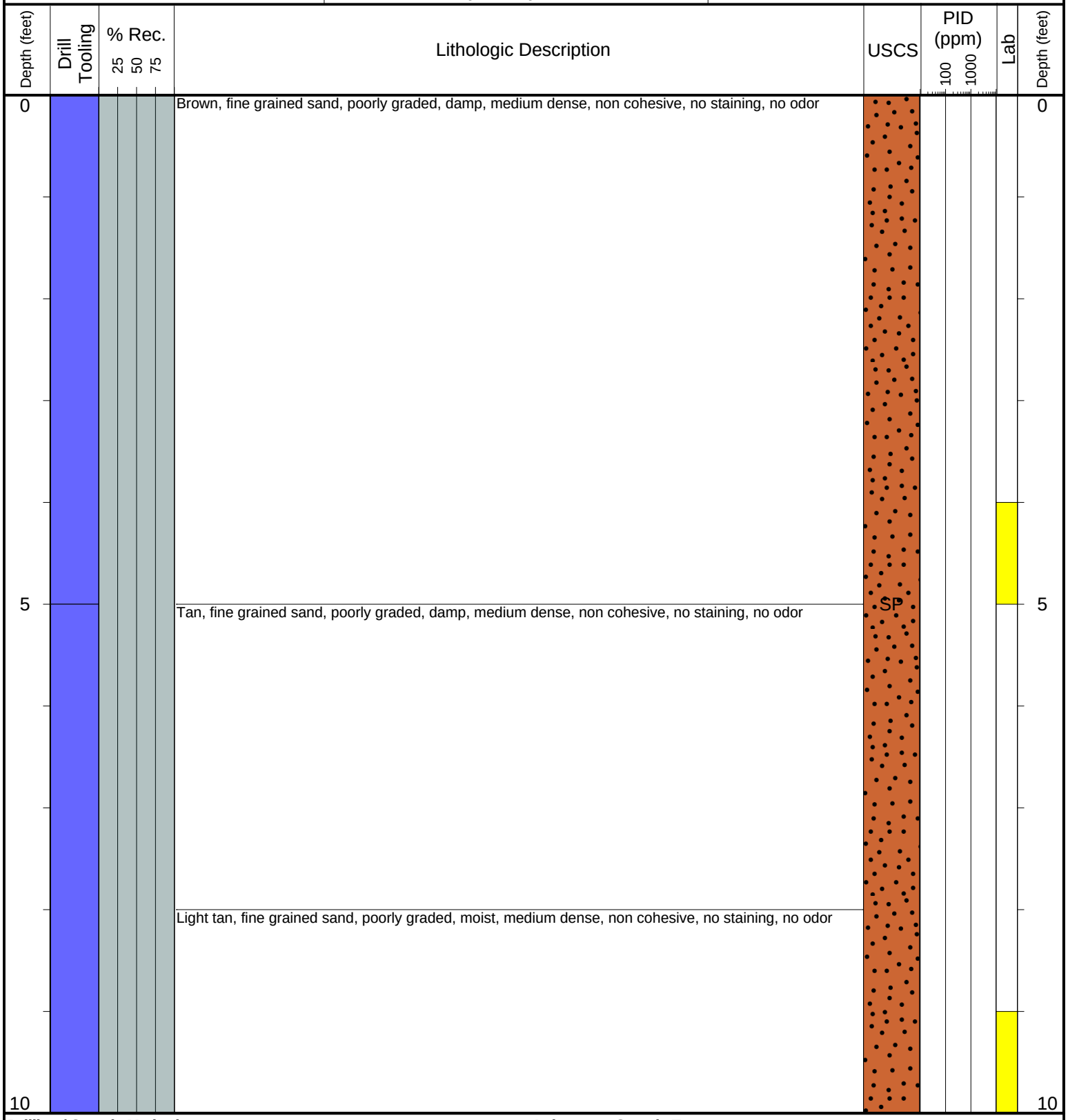
Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab

TASMAN

6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Tasman	**Johnson RC 29-02**
LOGGED BY: Patrick Kline	
PROJECT MANAGER: Jake Whritenour	**BORING / WELL ID:** BG08
DRILLING CONTRACTOR: Tasman	
DRILLING EQUIPMENT: Hand Auger	**LOCATION:** Weld County, Colorado
DRILL BIT SIZE (INCHES): 3.25"	**LATITUDE (NAD 83):** 40.290526
DATE STARTED - COMPLETED: 3/1/24-3/1/24	**LONGITUDE (NAD 83):** -104.574134
TOTAL WELL DEPTH (FT. BGS): 10	**GROUND ELEVATION (FT. AMSL):** NM
DEPTH TO WATER (FT. BGS): NM	**ABANDONMENT METHOD:** Native Material



Drilling / Sample Method:

- Macro-Core
- Hollow Stem Auger
- Solid Stem Auger
- Hand Auger

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab