



<b>CLIENT:</b> Noble		<b>SITE NAME:</b> Bruntz G16-23 Flowline					<b>DATE:</b> 1/6/2025	<b>REM. PROJECT #:</b> 32833		<b>WEATHER:</b> 21 SUNNY	
<b>SITE DIRECTIONS:</b> E CR 44 N CR 43, 0.4N, 0.2 E into site							<b>JOB#:</b>				
<b>LEGALS AND LAT/LONG:</b> 40.308760, -104.663730							<b>TASMAN PERSONNEL:</b> JMEIER				
<b>SOIL TYPES:</b> Poorly Graded Sand - SP							<b>SURFACE GRADIENT:</b> East				
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)				
01-06-2025 11:42	BG06@0-1'	0.0	No Staining	No Odor	Yes	Lab	Buried or Partially Buried Vessel				
01-06-2025 11:44	BG06@1-2'	0.0	No Staining	No Odor	Yes	Lab	Separator				
01-06-2025 11:46	BG06@2-3'	0.2	No Staining	No Odor	Yes	Lab	Emission Control Device (ECD)				
01-06-2025 11:48	BG06@3-4'	0.7	No Staining	No Odor	Yes	Lab	Dump Line				
01-06-2025 11:57	BG05@0-1'	0.5	No Staining	No Odor	Yes	Lab	Wellhead				
01-06-2025 11:59	BG05@1-2'	0.2	No Staining	No Odor	Yes	Lab	Flowline		1		
01-06-2025 12:01	BG05@2-3'	0.2	No Staining	No Odor	Yes	Lab	Other:				
01-06-2025 12:33	BG04@0-1'	0.8	No Staining	No Odor	Yes	Lab	Soil Loads Removed				
01-06-2025 12:35	BG04@1-2'	0.7	No Staining	No Odor	Yes	Lab	IMPACTED SOIL IDENTIFIED?				
01-06-2025 12:37	BG04@2-3'	1.0	No Staining	No Odor	Yes	Lab	ESTIMATED VOLUME OF IMPACTS:				
01-06-2025 12:42	BG03@0-1'	0.4	No Staining	No Odor	Yes	Lab	Date		Number	CY	
01-06-2025 12:44	BG03@1-2'	0.5	No Staining	No Odor	Yes	Lab	1/9/2025		5	50	
01-06-2025 12:46	BG03@2-3'	0.6	No Staining	No Odor	Yes	Lab	1/10/2025		6	60	
01-06-2025 13:00	BG02@0-1'	0.7	No Staining	No Odor	Yes	Lab					
01-06-2025 13:02	BG02@1-2'	0.5	No Staining	No Odor	Yes	Lab					
01-06-2025 13:04	BG02@2-3'	0.7	No Staining	No Odor	Yes	Lab	Total Removed		11	110	
01-09-2025 09:36	SS01-E@3'	0.6	Organic Cont	No Odor	Yes	Lab	Disposal Facility: WM - Ault				
01-09-2025 09:38	SS02-E@1'	0.8	Organic Cont	No Odor	Yes	Lab	Groundwater Recovery				
01-09-2025 09:40	SS03-E@1'	0.4	Organic Cont	No Odor	Yes	Lab	DATE GW ENCOUNTERED:		DEPTH:		
01-09-2025 09:42	SS04-E@1'	0.2	Organic Cont	No Odor	Yes	Lab	GROUNDWATER IN CONTACT WITH IMPACTED SOIL?				
01-09-2025 09:44	SS05-E@1'	0.4	Organic Cont	No Odor	Yes	Lab					
01-09-2025 14:21	SS01-D@4'	0.8	No Staining	No Odor	Yes	Lab	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:				

[illegible]

# 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: Bruntz G16-23

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



Date: \_\_\_\_\_

GENERAL OBSERVATION FORM



Site Area/AOC: Bruntz G16-23 Client: Noble

Daily Forecast/Weather: 21 SUNNY Personnel: JMEIER



Task/Location Description: \_\_\_\_\_

Time	Description
	On-site JSA completed
	EXCAVATOR BROKE DOWN COMPLETED BG02-BG06 BACKGROUND SAMPLES
	1/9/25
	On Site JSA calibrate PID
	Excavate Site E 10X10X3
	Grabbed samples SS01-SS05 Gw began to enter the excavation as pictures where taken.
	(PVC strike on northeast corner of excavation was discovered 4X crew will access damage after excavation is backfilled and
	compacted 1 foot above ground water table)
	4X crew is removing caved in debris and will add clean fill to 2' and pothole center to sample for water.
	ground water sample was unable to be retrieved. backfill excavation and hand auger to 3' on 1/10 to get the GW Sample
	Excavate Site D 10X10X4' no water grabbed SS01-SS05
	1/10/25
	Onsite JSA calibrate PID
	Excavate Site C 10X10X4 grabbed SS01-SS05
	Excavate Site B 10X10X4 grabbed SS01-SS05
	Excavate Site A 10X10X4 grabbed SS01-SS05
	Hand Augerd at Excavaton Site E at center point to 3.5' to determine if ground water is present
	no ground water infiltrated bore hole after 30 of observation. Suspected run off or snow melt is a possible explanation
	see site photo in log to see possible run off being an explanation.
	Excavation is pending Analyical Data





					
<b>Equipment ID:</b> BG02			<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> BACKFILLED			<b>Notes/Conditions:</b> BACKFILLED		



											
<b>Equipment ID:</b> BG04		<b>Equipment Type:</b>		<b>Equipment ID:</b> BG05		<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> BACKFILLED						<b>Notes/Conditions:</b> BACKFILLED					





							
<b>Equipment ID:</b> BG06		<b>Equipment Type:</b>		<b>Equipment ID:</b> SS01-E@3', SS04-E@1', SS		<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> BACKFILLED				<b>Notes/Conditions:</b>			





							
Equipment ID:SS03-E@1 AND SS02-E@1		Equipment Type:		Equipment ID:Excavation E		Equipment Type:	
Material:	Volume:	Contents:	Material:	Volume:	Contents:		
Notes/Conditions:			Notes/Conditions:GW encountered @3' side walls began collapsing as ground water infiltrated.				





					
<b>Equipment ID:</b> SS01-D@4' SS02-C@2'-SS0			<b>Equipment Type:</b>		
<b>Material:</b>	<b>Volume:</b>	<b>Contents:</b>	<b>Equipment ID:</b> SS01-C@4' SS04-C@2'-SS0	<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> SS03-C@2' SS02-C@2'		<b>Equipment Type:</b>		<b>Equipment ID:</b> SS01-B@4' SS02-B@1'-SS0		<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> SS01-A@4' SS02-A@1'-SS0		<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> Work area. Where cone is located suspected gw was		

**TABLE 1  
FIELD DATA SUMMARY TABLE**



**NOBLE 100322  
BRUNTZ G16-23 FLOWLINE , WELD COUNTY, COLORADO  
REM #32833**

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data <sup>(1)</sup> Latitude/Longitude		PDOP Value	VOC Concentration <sup>(2)</sup> (ppm)
FL01R-W@1'	6/24/2024	1	40.308760	-104.663704	0.8	0.8
SS01-A@4'	1/10/2025	4	40.308764	-104.663712	1.3	1.7
SS02-A@1'	1/10/2025	1	40.308755	-104.663705	0.8	0.0
SS03-A@1'	1/10/2025	1	40.308760	-104.663722	0.8	0.1
SS04-A@1'	1/10/2025	1	40.308776	-104.663715	0.8	0.1
SS05-A@1'	1/10/2025	1	40.308772	-104.663688	0.8	1.5
FL01-01@1'	6/24/2024	1	40.308804	-104.663245	0.8	1.2
SS01-B@4'	1/10/2025	4	40.308804	-104.663243	0.9	1.0
SS02-B@1'	1/10/2025	1	40.308816	-104.663242	0.8	1.3
SS03-B@1'	1/10/2025	1	40.308804	-104.663225	0.8	1.2
SS04-B@1'	1/10/2025	1	40.308791	-104.663245	0.8	2.5
SS05-B@1'	1/10/2025	1	40.308804	-104.663269	0.8	1.8
FL01-02@2'	6/24/2024	2	40.308914	-104.662884	0.8	0.8
SS01-C@4'	1/10/2025	4	40.308909	-104.662888	0.8	0.3
SS02-C@2'	1/10/2025	2	40.308911	-104.662907	0.8	0.8
SS03-C@2'	1/10/2025	2	40.308928	-104.662888	0.9	1.0
SS04-C@2'	1/10/2025	2	40.308908	-104.662871	0.8	1.0
SS05-C@2'	1/10/2025	2	40.308895	-104.662895	1.0	0.8
FL01-03@2'	6/24/2024	2	40.309221	-104.662733	0.9	1.1
SS01-D@4'	1/9/2025	4	40.309216	-104.662738	1.0	0.8
SS02-D@2'	1/9/2025	2	40.309218	-104.662751	0.9	0.5
SS03-D@2'	1/9/2025	2	40.309203	-104.662738	0.9	0.8
SS04-D@2'	1/9/2025	2	40.309215	-104.662721	0.8	0.8
SS05-D@2'	1/9/2025	2	40.309228	-104.662733	0.8	1.0
FL01-06@1'	6/24/2024	1	40.310710	-104.662799	0.8	4.2
SS01-E@3'	1/9/2025	3	40.310715	-104.662791	0.9	0.6
SS02-E@1'	1/9/2025	1	40.310713	-104.662812	0.9	0.8
SS03-E@1'	1/9/2025	1	40.310698	-104.662793	1.0	0.4
SS04-E@1'	1/9/2025	1	40.310712	-104.662771	1.0	0.7
SS05-E@1'	1/9/2025	1	40.310728	-104.662794	0.9	0.4
BKG01@1'	6/24/2024	1	40.308801	-104.663803	0.9	1.0
BKG01@3'	6/24/2024	2	40.308801	-104.663803	0.9	0.6
BG02@0-1	1/6/2025	0-1	40.309024	-104.663457	1.0	0.7
BG02@1-2	1/7/2025	1-2	40.309024	-104.663457	1.0	0.5
BG02@2-3	1/8/2025	2-3	40.309024	-104.663457	1.0	0.7
BG03@0-1	1/9/2025	0-1	40.309042	-104.663163	1.0	0.4
BG03@1-2	1/10/2025	1-2	40.309042	-104.663163	1.0	0.5
BG03@2-3	1/11/2025	2-3	40.309042	-104.663163	1.0	0.6
BG04@0-1	1/12/2025	0-1	40.309329	-104.663025	1.0	0.8
BG04@1-2	1/13/2025	1-2	40.309329	-104.663025	1.0	0.7
BG04@2-3	1/14/2025	2-3	40.309329	-104.663025	1.0	1.0
BG05@0-1	1/15/2025	0-1	40.310563	-104.663082	1.0	0.5
BG05@1-2	1/16/2025	1-2	40.310563	-104.663082	1.0	0.2
BG05@2-3	1/17/2025	2-3	40.310563	-104.663082	1.0	0.2
BG06@0-1	1/18/2025	0-1	40.310791	-104.663051	0.9	0.0
BG06@1-2	1/19/2025	1-2	40.310791	-104.663051	0.9	0.0
BG06@2-3	1/20/2025	2-3	40.310791	-104.663051	0.9	0.2



TABLE 1  
FIELD DATA SUMMARY TABLE  
NOBLE 100322



Bruntz G16-23 Flowline , WELD COUNTY, COLORADO  
REM #32833

Sample ID	Sample Date	Depth (ft. bgs)	GPS Data <sup>(1)</sup> Latitude/Longitude		PDOP Value	VOC Concentration <sup>(2)</sup> (ppm)
BG06@3-4	1/21/2025	3-4	40.310791	-104.663051	0.9	0.7

**Notes:**

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTM Zone 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 100322  
BRUNTZ G16-23 FLOWLINE, WELD COUNTY, COLORADO  
REM #32833



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@1'	6/24/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS01-A@4'	1/10/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS02-A@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS03-A@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS04-A@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS05-A@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-01@1'	6/24/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS01-B@4'	1/10/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS02-B@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS03-B@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS04-B@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS05-B@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-02@2'	6/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS01-C@4'	1/10/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS02-C@2'	1/10/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS03-C@2'	1/10/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS04-C@2'	1/10/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS05-C@2'	1/10/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-03@2'	6/24/2024	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.012	<50	<0.50	<50	<50
SS01-D@4'	1/10/2025	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS02-D@2'	1/10/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS03-D@2'	1/10/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS04-D@2'	1/10/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS05-D@2'	1/10/2025	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
FL01-06@1'	6/24/2024	1	<0.0020	0.0058	<0.0050	0.012	<0.0050	<0.0050	3.3	190	<0.50	190	<50
SS01-E@3'	1/10/2025	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS02-E@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS03-E@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS04-E@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50
SS05-E@1'	1/10/2025	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50	<50

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
BRUNTZ G16-23 FLOWLINE, WELD COUNTY, COLORADO  
REM #32833



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**		

**Notes:**

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

  = Material excavated and transported off site for disposal.

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

Pink & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).

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

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE 100322  
BRUNTZ G16-23 FLOWLINE, WELD COUNTY, COLORADO  
REM #32833



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-W@1'	6/24/2024	1	0.166	0.180	0.449	0.287	0.416	0.138	0.415	0.0503	1.21	0.176	0.183	0.976	0.0120	0.0184
SS01-A@4'	1/10/2025	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00999	0.00729	0.00967
SS02-A@1'	1/10/2025	1	<0.00500	0.00511	0.0422	0.0292	0.0441	0.0148	0.0376	<0.00500	0.0684	<0.00500	0.0383	0.0739	<0.00500	<0.00500
SS03-A@1'	1/10/2025	1	<0.00500	<0.00500	0.00604	<0.00500	0.00680	<0.00500	0.00529	<0.00500	0.0104	<0.00500	<0.00500	0.00779	<0.00500	<0.00500
SS04-A@1'	1/10/2025	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
SS05-A@1'	1/10/2025	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
FL01-01@1'	6/24/2024	1	0.158	0.278	0.339	0.201	0.302	0.0976	0.332	0.0441	1.01	0.187	0.153	0.804	0.0433	0.0840
SS01-B@4'	1/10/2025	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	<0.00500
SS02-B@1'	1/10/2025	1	<0.00500	<0.00500	0.00508	0.00513	0.00531	<0.00500	0.00532	<0.00500	0.00504	<0.00500	<0.00500	0.00605	<0.00500	<0.00500
SS03-B@1'	1/10/2025	1	<0.00500	<0.00500	0.00520	0.00524	0.00620	<0.00500	0.00544	<0.00500	0.00597	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS04-B@1'	1/10/2025	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
SS05-B@1'	1/10/2025	1	<0.00500	<0.00500	0.0280	0.0191	0.0309	0.0105	0.0274	<0.00500	0.0486	<0.00500	0.0225	0.0451	<0.00500	<0.00500
FL01-02@2'	6/24/2024	2	0.00727	0.0208	0.0578	0.0385	0.0664	0.0230	0.0573	0.00557	0.137	0.00926	0.0165	0.126	<0.00500	<0.00500
SS01-C@4'	1/10/2025	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	<0.00500
SS02-C@2'	1/10/2025	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
SS03-C@2'	1/10/2025	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
SS04-C@2'	1/10/2025	2	<0.00500	<0.00500	0.0104	0.00917	0.00981	<0.00500	0.00945	<0.00500	0.00922	<0.00500	0.00769	0.0117	<0.00500	<0.00500
SS05-C@2'	1/10/2025	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
FL01-03@2'	6/24/2024	2	0.172	0.321	0.491	0.303	0.462	0.148	0.481	0.0621	1.49	0.198	0.304	1.18	0.0376	0.0685
SS01-D@4'	1/9/2025	4	<0.00500	<0.00500	0.00581	0.00575	0.00797	<0.00500	0.00657	<0.00500	0.0216	<0.00500	0.00931	0.017	<0.00500	<0.00500
SS02-D@2'	1/9/2025	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
SS03-D@2'	1/9/2025	2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00744	<0.00500	<0.00500	<0.00500
SS04-D@2'	1/9/2025	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
SS05-D@2'	1/9/2025	2	<0.00500	<0.00500	0.0504	0.0329	0.0655	0.0226	0.0569	0.0102	0.0882	<0.00500	0.0265	0.0798	<0.00500	<0.00500
FL01@06@1'	6/24/2024	1	1.98	2.55	3.26	1.98	2.98	1.00	3.07	0.545	10.3	2.26	1.81	7.94	0.583	1.15
SS01-E@3'	1/9/2025	3	0.00975	0.0150	0.0287	0.0201	0.0325	0.00950	0.0296	0.00634	0.0749	0.0109	0.0159	0.0648	<0.00500	<0.00500
SS02-E@1'	1/9/2025	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-E@1'	1/9/2025	1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00634	<0.00500	<0.00500	<0.00500
SS04-E@1'	1/9/2025	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
SS05-E@1'	1/9/2025	1	0.0340	0.119	0.237	0.173	0.286	0.107	0.238	0.0369	0.372	0.0554	0.105	0.375	<0.00500	<0.00500

**Notes:**

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

Material excavated and transported off site for disposal.

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

Pink & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**BRUNTZ G16-23 FLOWLINE, WELD COUNTY, COLORADO**  
**REM #32833**



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@1'	6/24/2024	1	8.39	0.414	0.600	<2.00
SS01-A@4'	1/10/2025	4	8.03	0.491	1.33	<2.00
SS02-A@1'	1/10/2025	1	8.49	0.388	0.675	<2.00
SS03-A@1'	1/10/2025	1	8.13	0.486	0.719	<2.00
SS04-A@1'	1/10/2025	1	7.79	0.285	0.406	<2.00
SS05-A@1'	1/10/2025	1	8.21	0.291	1.27	<2.00
FL01-01@1'	6/24/2024	1	7.31	0.363	1.02	<2.00
SS01-B@4'	1/10/2025	4	8.29	0.400	2.41	<2.00
SS02-B@1'	1/10/2025	1	7.55	0.166	0.625	<2.00
SS03-B@1'	1/10/2025	1	7.04	0.245	0.716	<2.00
SS04-B@1'	1/10/2025	1	7.39	0.603	1.94	<2.00
SS05-B@1'	1/10/2025	1	7.83	0.473	2.18	<2.00
FL01-02@2'	6/24/2024	2	7.69	0.586	4.03	<2.00
SS01-C@4'	1/10/2025	4	8.02	0.374	2.20	<2.00
SS02-C@2'	1/10/2025	2	7.27	0.233	0.656	<2.00
SS03-C@2'	1/10/2025	2	7.08	0.381	1.11	<2.00
SS04-C@2'	1/10/2025	2	7.47	0.321	0.884	<2.00
SS05-C@2'	1/10/2025	2	7.75	0.480	2.00	<2.00
FL01-03@2'	6/24/2024	2	7.77	1.60	5.32	<2.00
SS01-D@4'	1/9/2025	4	7.85	2.20	6.13	<2.00
SS02-D@2'	1/9/2025	2	7.70	5.02	9.56	<2.00
SS03-D@2'	1/9/2025	2	7.70	0.856	3.04	<2.00
SS04-D@2'	1/9/2025	2	7.89	2.65	6.99	<2.00
SS05-D@2'	1/9/2025	2	7.63	2.50	4.22	<2.00
FL01-06@1'	6/24/2024	1	8.57	6.20	23.8	<2.00
SS01-E@3'	1/9/2025	3	8.46	2.18	11.0	<2.00
SS02-E@1'	1/9/2025	1	8.52	6.87	17.7	<2.00
SS03-E@1'	1/9/2025	1	8.43	1.95	5.99	<2.00
SS04-E@1'	1/9/2025	1	8.24	1.56	8.68	<2.00
SS05-E@1'	1/9/2025	1	8.39	3.10	13.7	<2.00
BKG01@1'	6/24/2024	1	7.60	0.542	1.88	<2.00
BKG01@2'	6/24/2024	2	8.25	0.462	1.38	<2.00
BG02@0-1'	1/6/2025	0-1	7.14	0.204	0.252	<2.00
BG02@1-2'	1/6/2025	1-2	7.34	0.113	0.310	<2.00
BG02@2-3'	1/6/2025	2-3	7.22	0.229	0.248	<2.00
BG03@0-1'	1/6/2025	0-1	7.04	0.270	0.247	<2.00
BG03@1-2'	1/6/2025	1-2	7.44	0.153	0.205	<2.00

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**BRUNTZ G16-23 FLOWLINE, WELD COUNTY, COLORADO**  
**REM #32833**



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
BG03@2-3'	1/6/2025	2-3	7.31	0.115	0.260	<2.00
BG04@0-1'	1/6/2025	0-1	6.92	0.212	0.254	<2.00
BG04@1-2'	1/6/2025	1-2	<b>8.50</b>	0.261	0.498	<2.00
BG04@2-3'	1/6/2025	2-3	8.07	0.169	0.389	<2.00
BG05@0-1'	1/6/2025	0-1	<b>8.78</b>	1.89	<b>8.75</b>	<2.00
BG05@1-2'	1/6/2025	1-2	<b>8.91</b>	0.582	1.73	<2.00
BG05@2-3'	1/6/2025	2-3	<b>8.40</b>	0.666	<b>6.32</b>	<2.00
BG06@0-1'	1/6/2025	0-1	<b>9.32</b>	1.87	2.75	<2.00
BG06@1-2'	1/6/2025	1-2	<b>9.15</b>	1.24	2.46	<2.00
BG06@2-3'	1/6/2025	2-3	<b>9.47</b>	0.484	1.57	<2.00
BG06@3-4'	1/6/2025	3-4	<b>8.54</b>	0.572	<b>6.25</b>	<2.00
Maximum Background Concentration			9.47	1.89	8.75	-

**Notes:**

ECMC = Colorado Energy & Carbon Management Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

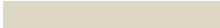
mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

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

ft. = Feet

bgs = Below ground surface

 = Material excavated and transported off site for disposal.

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

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

Brown highlighted soil analytical values indicate a regulatory exceedance.

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
BRUNTZ G16-23 FLOWLINE, WELD COUNTY, COLORADO  
REM #32833



Sample ID	Sample Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) <sup>[1]</sup> (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-W@1'	6/24/2024	1	0.699	59.3	0.240	<0.30	2.98	8.92	1.60	0.332	0.0567	8.74
SS01-A@4'	1/10/2025	4	4.01	88.6	0.206	<0.30	13.8	10.6	6.24	<0.260	0.0389	40.0
SS02-A@1'	1/10/2025	1	2.48	51.0	0.251	<0.30	10.2	8.67	4.00	<0.260	0.0454	29.7
SS03-A@1'	1/10/2025	1	2.85	63.1	<0.200	<0.30	8.11	7.66	5.29	<0.260	0.0478	28.6
SS04-A@1'	1/10/2025	1	3.04	64.0	<0.200	<0.30	7.93	7.82	4.74	<0.260	0.0450	28.8
SS05-A@1'	1/10/2025	1	2.76	64.1	<0.200	<0.30	6.95	6.54	4.73	<0.260	0.0300	25.7
FL01-01@1'	6/24/2024	1	0.776	50.7	0.219	<0.30	2.10	8.35	1.43	0.266	0.0724	7.87
SS01-B@4'	1/10/2025	4	2.07	58.3	<0.200	<0.30	5.63	5.35	4.02	<0.260	0.0256	22.4
SS02-B@1'	1/10/2025	1	2.76	32.8	0.309	<0.30	7.32	10.8	3.44	<0.260	0.110	31.0
SS03-B@1'	1/10/2025	1	2.10	36.8	0.216	<0.30	7.00	9.35	2.93	<0.260	0.0908	24.4
SS04-B@1'	1/10/2025	1	2.16	38.7	0.236	<0.30	7.43	10.0	2.96	<0.260	0.0801	25.4
SS05-B@1'	1/10/2025	1	2.58	50.0	0.200	<0.30	7.07	7.82	4.17	<0.260	0.0586	26.2
FL01-02@2'	6/24/2024	2	0.655	51.6	0.396	<0.30	2.77	12.5	1.35	<0.260	0.143	10.8
SS01-C@4'	1/10/2025	4	1.55	40.7	<0.200	<0.30	4.77	5.63	3.24	<0.260	0.0454	19.7
SS02-C@2'	1/10/2025	2	2.82	88.6	0.215	<0.30	9.41	8.05	5.14	<0.260	0.0456	38.0
SS03-C@2'	1/10/2025	2	2.44	57.2	0.227	<0.30	8.32	8.97	4.23	<0.260	0.0759	30.7
SS04-C@2'	1/10/2025	2	3.66	103	0.227	<0.30	9.38	8.72	5.52	<0.260	0.0482	38.4
SS05-C@2'	1/10/2025	2	1.97	48.6	0.234	<0.30	7.81	9.27	3.75	<0.260	0.0892	29.8
FL01-03@2'	6/24/2024	2	0.717	76.2	0.270	<0.30	2.21	8.65	1.86	<0.260	0.0992	8.49
SS01-D@4'	1/9/2025	4	2.15	51.6	<0.200	<0.30	4.82	6.48	4.08	<0.260	0.112	18.8
SS02-D@2'	1/9/2025	2	3.62	77.8	<0.200	<0.30	5.20	7.01	6.41	<0.260	0.118	20.6
SS03-D@2'	1/9/2025	2	2.20	53.4	0.215	<0.30	5.76	7.53	4.12	<0.260	0.127	21.2
SS04-D@2'	1/9/2025	2	2.75	66.3	<0.200	<0.30	4.40	6.02	5.23	<0.260	0.106	18.4
SS05-D@2'	1/9/2025	2	2.37	57.8	0.264	<0.30	6.82	9.56	4.33	<0.260	0.165	25.5
FL01-06@1'	6/24/2024	1	0.692	68.1	0.296	<0.30	27.0	9.22	1.65	0.261	0.0703	13.3
SS01-E@3'	1/9/2025	3	1.76	55.0	0.216	<0.30	18.7	6.50	3.77	<0.260	0.106	20.8
SS02-E@1'	1/9/2025	1	2.07	47.7	0.210	<0.30	23.2	7.01	3.68	<0.260	0.106	21.9
SS03-E@1'	1/9/2025	1	1.71	47.0	<0.200	<0.30	4.58	5.64	3.22	<0.260	0.0846	15.7
SS04-E@1'	1/9/2025	1	1.49	46.7	<0.200	<0.30	15.9	5.29	3.39	<0.260	0.0894	17.3
SS05-E@1'	1/9/2025	1	1.94	68.5	<0.200	<0.30	14.0	6.11	3.89	<0.260	0.0997	19.2
BKG01@1'	6/24/2024	1	0.775	76.5	0.266	<0.30	2.29	9.20	1.76	<0.260	0.0807	8.78
BKG01@2'	6/24/2024	2	0.858	108	0.223	<0.30	1.96	6.97	2.35	0.313	0.0808	7.65

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
BRUNTZ G16-23 FLOWLINE, WELD COUNTY, COLORADO  
REM #32833



Sample ID	Sample Date	Depth (ft. bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) <sup>[1]</sup> (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
BG02@0-1'	1/6/2025	0-1	<b>2.38</b>	49.4	0.287	<0.30	5.60	9.88	4.10	<0.260	0.0917	21.9
BG02@1-2'	1/6/2025	1-2	<b>0.994</b>	31.4	<0.200	<0.30	2.31	2.89	2.54	<0.260	<0.0200	9.41
BG02@2-3'	1/6/2025	2-3	<b>0.971</b>	38.9	<0.200	<0.30	2.21	3.26	2.60	<0.260	0.0230	9.90
BG03@0-1'	1/6/2025	0-1	<b>1.82</b>	41.8	0.325	<0.30	5.51	9.09	3.48	<0.260	0.0991	22.2
BG03@1-2'	1/6/2025	1-2	<b>2.08</b>	74.9	0.209	<0.30	4.38	6.55	4.42	<0.260	0.0488	19.4
BG03@2-3'	1/6/2025	2-3	<b>1.19</b>	42.9	<0.200	<0.30	3.03	4.30	2.88	<0.260	0.0222	14.1
BG04@0-1'	1/6/2025	0-1	<b>3.12</b>	<b>90.7</b>	0.225	<0.30	4.54	7.76	5.07	<0.260	0.0495	21.0
BG04@1-2'	1/6/2025	1-2	<b>1.32</b>	47.7	<0.200	<0.30	2.92	4.32	3.52	<0.260	0.0277	12.1
BG04@2-3'	1/6/2025	2-3	<b>3.55</b>	68.4	0.215	<0.30	3.92	5.71	5.54	<0.260	0.0393	15.5
BG05@0-1'	1/6/2025	0-1	<b>3.28</b>	46.9	0.264	<0.30	6.03	9.02	3.29	<0.260	0.0557	19.6
BG05@1-2'	1/6/2025	1-2	<b>2.31</b>	59.7	<0.200	<0.30	4.24	6.84	4.48	<0.260	0.0284	17.8
BG05@2-3'	1/6/2025	2-3	<b>1.89</b>	44.6	<0.200	<0.30	3.63	5.68	4.45	<0.260	0.0283	15.9
BG06@0-1'	1/6/2025	0-1	<b>2.66</b>	50.4	0.227	<0.30	5.61	6.72	3.34	<0.260	0.0426	16.9
BG06@1-2'	1/6/2025	1-2	<b>1.98</b>	76.3	<0.200	<0.30	5.21	7.24	4.90	<0.260	0.0278	20.1
BG06@2-3'	1/6/2025	2-3	<b>3.29</b>	<b>107</b>	0.264	<0.30	5.64	9.38	6.73	<0.260	0.0509	24.6
BG06@3-4'	1/6/2025	3-4	<b>5.51</b>	<b>145</b>	0.380	<0.30	5.19	8.38	7.11	<0.260	0.0531	25.5
Maximum Background Concentration X 1.25			6.89	181	-	-	-	-	-	-	-	-

**Notes:**

1. Compound falls within ECMC Table 915-1 Footnote 9.

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

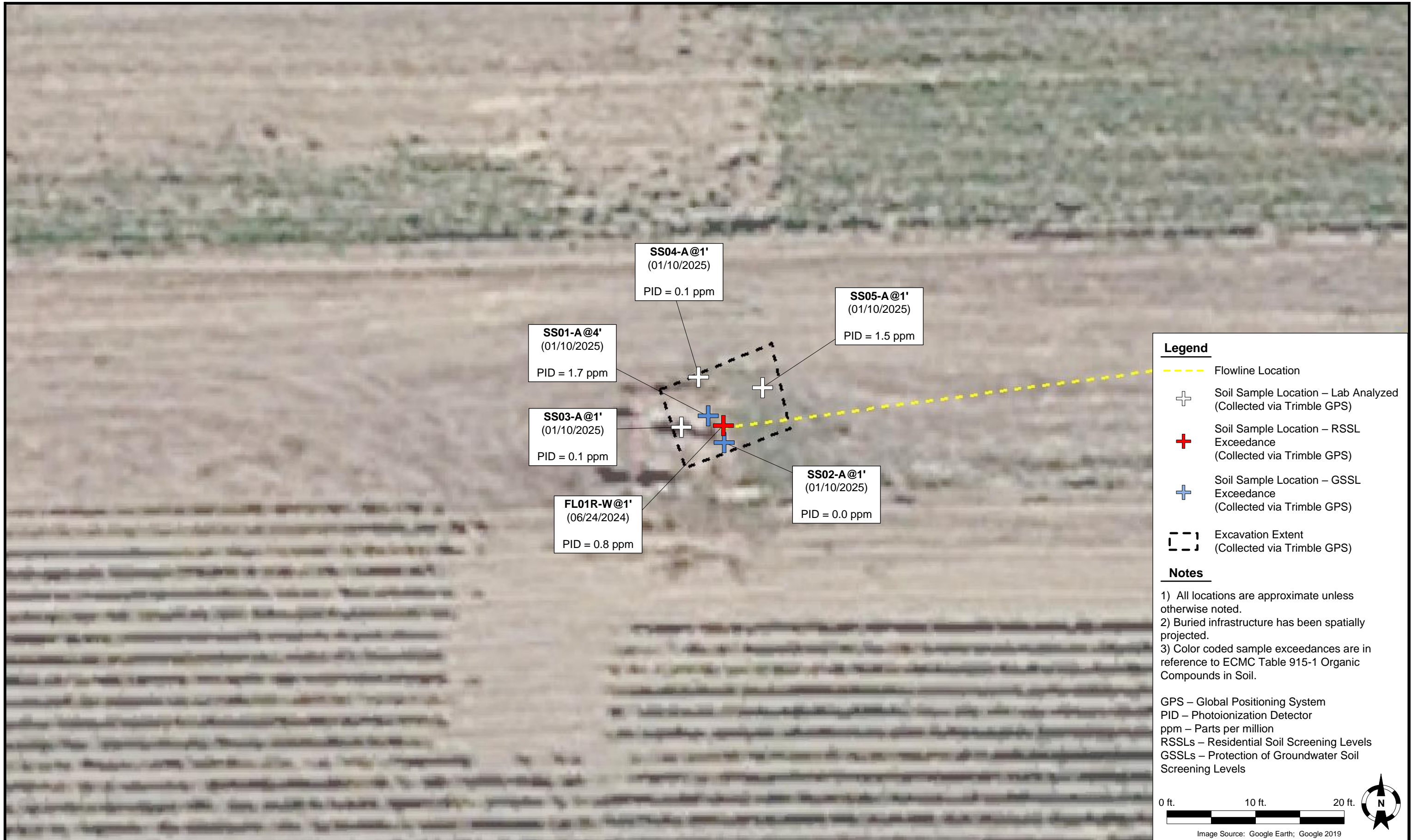
  = Material excavated and transported off site for disposal.


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

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

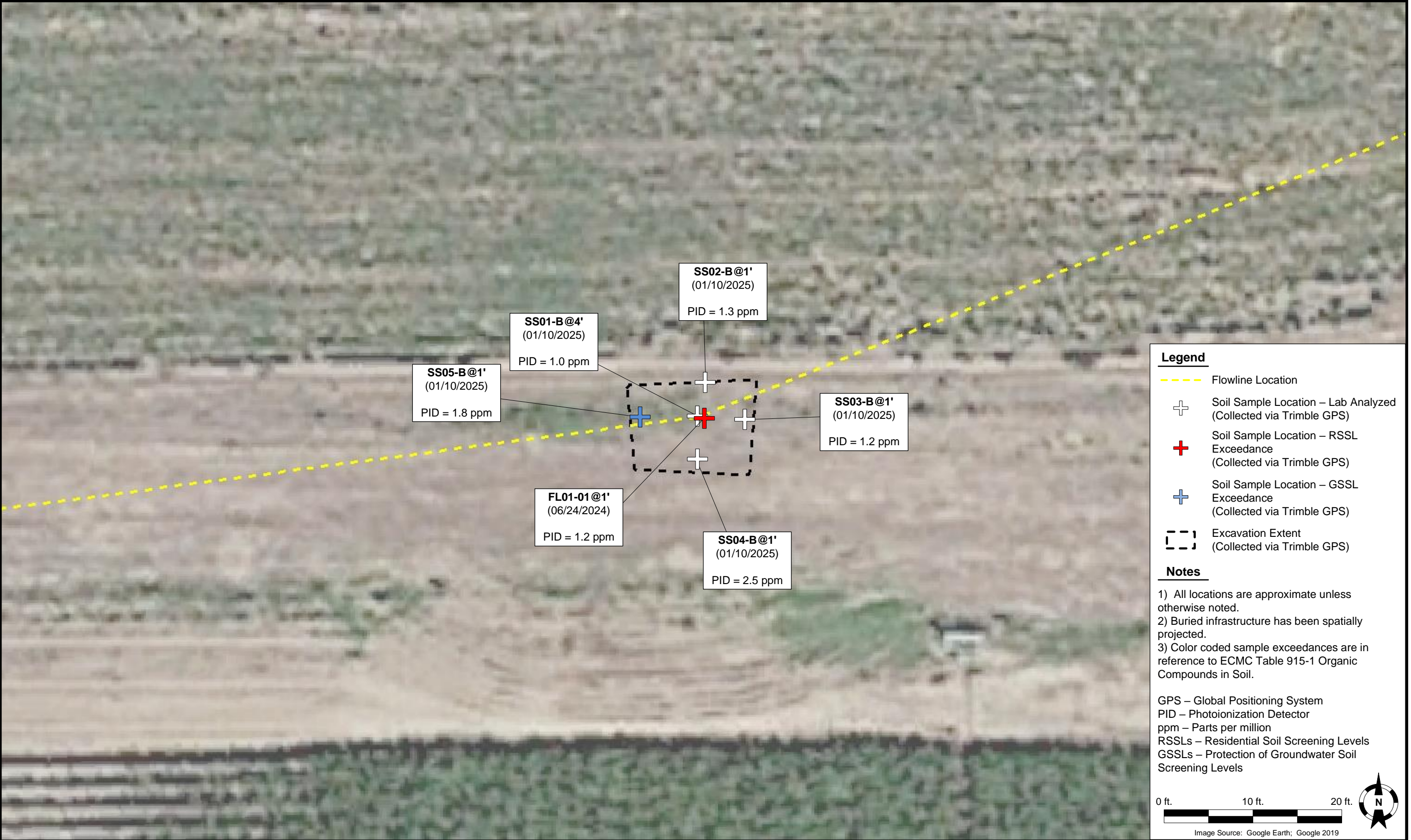
Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).





DATE: 01/10/2025		Noble Energy, Inc. – 100322 – DJ Basin Bruntz G16-23 Flowline NESE, Section 16, Township 4 North, Range 65 West Weld County, Colorado	SOIL SAMPLE LOCATION MAP (FLR01-W)	FIGURE 1
DESIGNED BY: JW				
DRAWN BY: J. Woffinden				





DATE: 01/10/2025		Noble Energy, Inc. – 100322 – DJ Basin Bruntz G16-23 Flowline NESE, Section 16, Township 4 North, Range 65 West Weld County, Colorado	SOIL SAMPLE LOCATION MAP (FL01-01)	FIGURE 2
DESIGNED BY: JW				
DRAWN BY: J. Woffinden				





DATE: 01/10/2025		Noble Energy, Inc. – 100322 – DJ Basin Bruntz G16-23 Flowline NESE, Section 16, Township 4 North, Range 65 West Weld County, Colorado	SOIL SAMPLE LOCATION MAP (FL01-02)	FIGURE 3
DESIGNED BY: JW				
DRAWN BY: J. Woffinden				





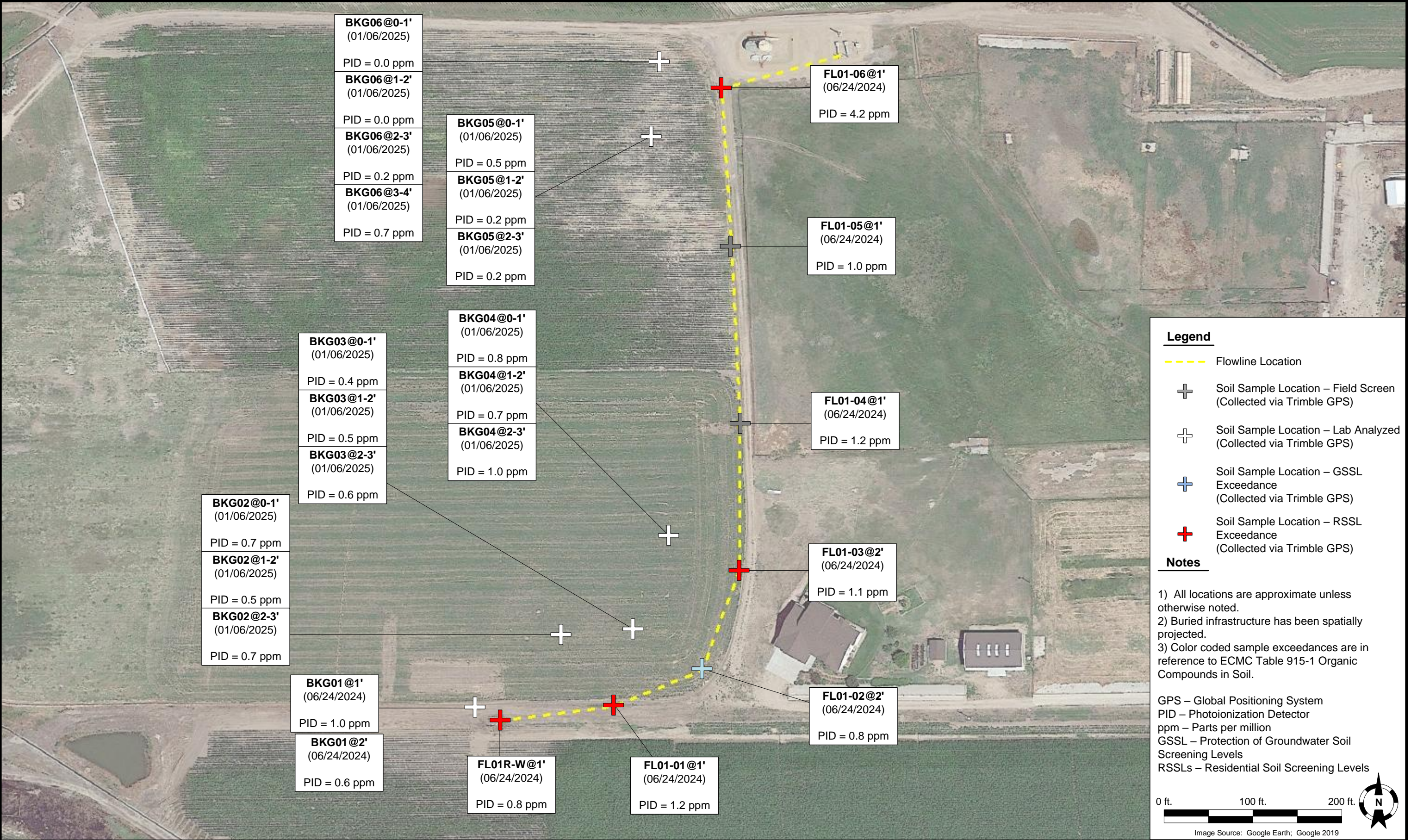
DATE: 01/09/2025		Noble Energy, Inc. – 100322 – DJ Basin Bruntz G16-23 Flowline NESE, Section 16, Township 4 North, Range 65 West Weld County, Colorado	SOIL SAMPLE LOCATION MAP (FL01-03)	FIGURE 4
DESIGNED BY: JW				
DRAWN BY: LR				





DATE: 01/09/2025		Noble Energy, Inc. – 100322 – DJ Basin Bruntz G16-23 Flowline NESE, Section 16, Township 4 North, Range 65 West Weld County, Colorado	SOIL SAMPLE LOCATION MAP (FL01-06)	FIGURE 5
DESIGNED BY: JW				
DRAWN BY: LR				









CLIENT: Noble
LOGGED BY: Jon Meier
PROJECT MANAGER: Mike Medina
DRILLING CONTRACTOR: Tasman
DRILLING EQUIPMENT: Hand Auger
DRILL BIT SIZE (INCHES): 3.25
DATE STARTED - COMPLETED: 1/6/2025-1/6/2025
TOTAL WELL DEPTH (FT. BGS): 3
DEPTH TO WATER (FT. BGS): Not Measured

Bruntz G16-23 Flowline
BORING ID: BKG02
LOCATION: Northeast of FL01R-W
LATITUDE (NAD 83): 40.309024
LONGITUDE (NAD 83): -104.663457
GROUND ELEVATION (FT. AMSL): Not Measured
ABANDONMENT METHOD: Native Material

6855 W. 119th Ave.  
Broomfield, CO 80020

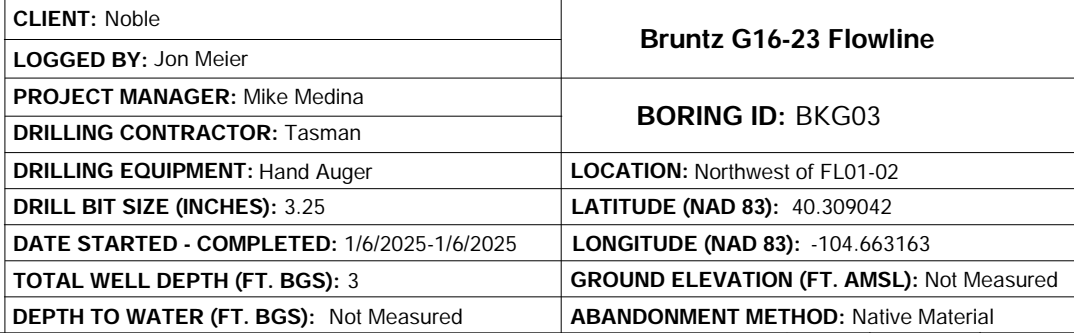
Depth (feet)	Drill Tooling	% Rec. 25 50 75	Lithologic Description	USCS	PID (ppm) 100 1000	Lab	Depth (feet)
0			Brown, sandy clay, fine grain, low plasticity, dry, no odor, no staining	CL			0
			Brown, sand, fine grain, poorly graded, dry, no odor, no staining	SP			

Drilling / Sample Method:

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

Laboratory Sample Types:

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



Depth (feet)	Drill Tooling	% Rec.			Lithologic Description	USCS	PID (ppm)		Lab	Depth (feet)
		25	50	75			100	1000		
0					Brown, sandy clay, fine grain, low plasticity, dry, no odor, no staining	CL				0
					Brown, sand, fine grain, poorly graded, dry, no odor, no staining	SP				

 Geotechnical Lab
  Geotechnical & Analytical Chemistry Lab





CLIENT: Noble
LOGGED BY: Jon Meier
PROJECT MANAGER: Mike Medina
DRILLING CONTRACTOR: Tasman
DRILLING EQUIPMENT: Hand Auger
DRILL BIT SIZE (INCHES): 3.25
DATE STARTED - COMPLETED: 1/6/2025-1/6/2025
TOTAL WELL DEPTH (FT. BGS): 3
DEPTH TO WATER (FT. BGS): Not Measured

Bruntz G16-23 Flowline
BORING ID: BKG04
LOCATION: Northwest of FL01-03
LATITUDE (NAD 83): 40.309329
LONGITUDE (NAD 83): -104.663025
GROUND ELEVATION (FT. AMSL): Not Measured
ABANDONMENT METHOD: Native Material

6855 W. 119th Ave.  
Broomfield, CO 80020

Depth (feet)	Drill Tooling	% Rec.			Lithologic Description	USCS	PID (ppm)		Lab	Depth (feet)
		25	50	75			100	1000		
0					Brown, sandy clay, fine grain, medium plasticity, dry, no odor, no staining	CL				0
					Brown, sand, fine grain, poorly graded, dry, no odor, no staining	SP				

Drilling / Sample Method:

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

Laboratory Sample Types:

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



6855 W. 119th Ave.  
Broomfield, CO 80020

CLIENT: Noble	Bruntz G16-23 Flowline
LOGGED BY: Jon Meier	
PROJECT MANAGER: Mike Medina	BORING ID: BKG05
DRILLING CONTRACTOR: Tasman	
DRILLING EQUIPMENT: Hand Auger	LOCATION: Southwest of FL01-05
DRILL BIT SIZE (INCHES): 3.25	LATITUDE (NAD 83): 40.310563
DATE STARTED - COMPLETED: 1/6/2025-1/6/2025	LONGITUDE (NAD 83): -104.663082
TOTAL WELL DEPTH (FT. BGS): 3	GROUND ELEVATION (FT. AMSL): Not Measured
DEPTH TO WATER (FT. BGS): Not Measured	ABANDONMENT METHOD: Native Material

Depth (feet)	Drill Tooling	% Rec.			Lithologic Description	USCS	PID (ppm)		Lab	Depth (feet)
		25	50	75			100	1000		
0					Brown, sand, fine grain to coarse grain, well graded, dry, no odor, no staining	SW				0
					Brown, sandy clay, fine grain, low plasticity, moist, no odor, no staining					
					Brown, sandy clay, fine grain, low plasticity, wet at 3', no odor, no staining	CL				

Drilling / Sample Method:

- Macro-Core
- Hand Auger
- Expendable Well Tip
- HydroPunch Groundwater Sampler

Laboratory Sample Types:

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



CLIENT: Noble
LOGGED BY: Jon Meier
PROJECT MANAGER: Mike Medina
DRILLING CONTRACTOR: Tasman
DRILLING EQUIPMENT: Hand Auger
DRILL BIT SIZE (INCHES): 3.25
DATE STARTED - COMPLETED: 1/6/2025-1/6/2025
TOTAL WELL DEPTH (FT. BGS): 4
DEPTH TO WATER (FT. BGS): Not Measured

Bruntz G16-23 Flowline
BORING ID: BKG06
LOCATION: Northwest of FL01-06
LATITUDE (NAD 83): 40.310791
LONGITUDE (NAD 83): -104.663051
GROUND ELEVATION (FT. AMSL): Not Measured
ABANDONMENT METHOD: Native Material

6855 W. 119th Ave.  
Broomfield, CO 80020

Depth (feet)	Drill Tooling	% Rec.			Lithologic Description	USCS	PID (ppm)		Lab	Depth (feet)
		25	50	75			100	1000		
0					Brown, sand, fine grain to coarse grain, poorly graded, dry, no odor, no staining	SW				0
					Brown, sand, fine grain to coarse grain, poorly graded, moist, no odor, no staining					
					Brown, sandy clay, fine grain, medium plasticity, moist, no odor, no staining					
						CL				

Drilling / Sample Method:

-  Macro-Core
-  Hand Auger
-  Expendable Well Tip
-  HydroPunch Groundwater Sampler

Laboratory Sample Types:

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