

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
AST01@0.5'	11/16/2023	0.5	40.3127514	-104.5275597	-	27.4
AST02@0.5'	11/16/2023	0.5	40.3128035	-104.5275515	-	40.0
AST03@0.5'	11/16/2023	0.5	40.3126971	-104.5275635	-	71.6
DLO1@4'	11/16/2023	4	-	-	-	-
PWV01-B@5'	11/16/2023	5	40.3127988	-104.5276384	-	26.7
PWV01-N@4'	11/16/2023	4	40.3128312	-104.5276217	-	32.0
PWV01-NE@4'	11/16/2023	4	40.3127964	-104.5275845	-	22.0
PWV01-NW@4'	11/16/2023	4	40.3127882	-104.5276517	-	10.2
PWV01-S@4'	11/16/2023	4	40.3126831	-104.5276301	-	35.2
PWV01-SE@4'	11/16/2023	4	40.3127134	-104.5276034	-	17.6
PWV01-SW@4'	11/16/2023	4	40.3127243	-104.5276615	-	3.7
SEP01-DL@4'	11/16/2023	4	40.3126953	-104.5278590	-	-
SEP02-DL@4'	11/16/2023	4	40.3127290	-104.5278635	-	-
WC01@1Ft	01/16/2025	1	40.3126690	-104.5276715	0.90	7.0
Base@15Ft	01/23/2025	15	40.3127064	-104.52765	1.10	0.4
Backfill	01/29/2025	Grab	-	-	-	0.0
NBase 12Ft	01/29/2025	12	-	-	-	24.6
E Base 01 15Ft	02/05/2025	15	40.3126531	-104.52758	-	147.6
E Base 02 15Ft	02/05/2025	15	40.3126925	-104.52758	-	45.7
E Base 03 15Ft	02/05/2025	15	40.3127217	-104.52756	-	4.6
NBase01 15Ft	-	15	40.3127375	-104.52758	-	3.7
NBase02 15Ft	02/06/2025	15	40.3127314	-104.52767	-	3.1
NWall01 14Ft	02/06/2025	14	40.3127652	-104.52759	0.90	3.7
NWall02 14Ft	02/06/2025	14	40.3127750	-104.52764	0.90	1.7
NWall04 9Ft	02/06/2025	9	40.3127652	-104.52759	0.90	1.0
NWall05 9Ft	02/06/2025	9	40.3127652	-104.52759	0.90	6.7
SBase01 15FT	-	15	40.3126382	-104.52758	0.90	891.0

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
SBase02 15Ft	02/06/2025	15	40.3126552	-104.52767	-	611.0
SWall01 14Ft	02/06/2025	14	40.3126356	-104.52757	0.80	1597.0
SWall02 14Ft	02/06/2025	14	40.3126235	-104.52763	0.80	148.0
SWall04 9Ft	02/06/2025	9	40.3126356	-104.52757	0.80	1423.0
SWall05 9Ft	02/06/2025	9	40.3126235	-104.52763	0.80	54.6
Nwall03 14Ft	02/07/2025	14	40.3127814	-104.52771	0.90	0.1
Nwall06 9Ft	02/07/2025	9	40.3127814	-104.52771	0.90	0.0
Swall03 14Ft	02/07/2025	14	40.3126235	-104.52775	0.80	0.2
Swall06 9Ft	02/07/2025	9	40.3126235	-104.52775	0.80	0.4
Wbase01 15Ft	02/07/2025	15	40.3127334	-104.52773	-	0.0
Wbase02 15Ft	02/07/2025	15	40.3126700	-104.52774	-	0.0
Wwall01 14Ft	02/07/2025	14	40.3127604	-104.52777	0.90	0.0
Wwall02 14Ft	02/07/2025	14	40.3127161	-104.52779	1.00	0.0
Wwall03 14Ft	02/07/2025	14	40.3126577	-104.52781	1.10	0.0
Wwall04 9Ft	02/07/2025	9	40.3127604	-104.52777	0.90	0.0
Wwall05 9Ft	02/07/2025	9	40.3127161	-104.52779	1.00	0.0
Wwall06 9Ft	02/07/2025	9	40.3126577	-104.52781	1.10	0.0
EWall 01 14Ft	02/11/2025	14	40.3126655	-104.52754	0.80	2.6
EWall 02 14Ft	02/11/2025	14	40.3127182	-104.52753	0.80	97.0
EWall 03 9Ft	02/11/2025	9	40.3126655	-104.52754	0.80	0.2
EWall 04 9Ft	02/11/2025	9	40.3127182	-104.52753	0.80	1.8

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
BKG01	11/16/2023	0.5, 4, 5	40.3131941	-104.52765	-	0.0
BKG02	11/16/2023	0.5, 4, 5	40.3131266	-104.52785	-	0.0
BKG03	11/16/2023	0.5, 4, 5	40.3129794	-104.52805	-	0.0
BKG04	11/16/2023	0.5, 4, 5	40.3133250	-104.52788	-	0.0
BKG05	11/16/2023	0.5, 4, 5	40.3132146	-104.52810	-	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

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 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
AST01@0.5'	11/16/2023	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	74	<50
AST02@0.5'	11/16/2023	0.5	<0.0020	<0.0050	<0.0050	<0.010	0.0058	0.0059	<0.0038	<500	<0.50	86	<50
AST03@0.5'	11/16/2023	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
DL01@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	0.0056	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV01-B@5'	11/16/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV01-N@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV01-NE@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV01-NW@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV01-S@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV01-SE@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV01-SW@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP01-DL@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP02-DL@4'	11/16/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
WC01@1Ft	01/16/2025	1	<0.0020	<0.0050	<0.0050	<0.010	0.015	<0.0050	<0.0038	<500	<0.50	<50	<50
Base@15Ft	01/23/2025	15	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Backfill	01/29/2025	Grab	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
NBase 12Ft	01/29/2025	12	0.0092	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
E Base 01 15Ft	02/05/2025	15	<0.0020	<0.0050	0.012	0.045	0.085	3.7	0.016	507.81	400	100	<50
E Base 02 15Ft	02/05/2025	15	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
E Base 03 15Ft	02/05/2025	15	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	0.0058	<0.0038	<500	0.68	<50	<50
NBase02 15Ft	02/06/2025	15	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
NWall01 14Ft	02/06/2025	14	<0.0020	<0.0050	<0.0050	<0.010	0.0086	<0.0050	<0.0038	<500	<0.50	<50	<50
NWall02 14Ft	02/06/2025	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
NWall04 9Ft	02/06/2025	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
NWall05 9Ft	02/06/2025	9	<0.0020	<0.0050	<0.0050	<0.010	0.022	0.33	<0.0038	<500	95	<50	<50
SBase02 15Ft	02/06/2025	15	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	240	<50
SWall01 14Ft	02/06/2025	14	<0.20	0.62	5.3	66	46	25	2.6	5281.85	2100	2700	410
SWall02 14Ft	02/06/2025	14	<0.0020	<0.0050	0.42	4.2	21	0.42	0.4	3204.34	620	2200	380
SWall04 9Ft	02/06/2025	9	<0.20	<0.50	2.5	11	42	6.9	2.5	3900.15	1000	2400	450
SWall05 9Ft	02/06/2025	9	<0.0020	<0.0050	<0.0050	<0.010	0.012	<0.0050	<0.0038	<500	2.3	<50	<50
Nwall03 14Ft	02/07/2025	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Nwall06 9Ft	02/07/2025	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	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**		
Swal03 14Ft	02/07/2025	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Swal06 9Ft	02/07/2025	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Wbase01 15Ft	02/07/2025	15	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Wbase02 15Ft	02/07/2025	15	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Wwall01 14Ft	02/07/2025	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Wwall02 14Ft	02/07/2025	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Wwall03 14Ft	02/07/2025	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Wwall04 9Ft	02/07/2025	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Wwall05 9Ft	02/07/2025	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Wwall06 9Ft	02/07/2025	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
EWal 01 14Ft	02/11/2025	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
EWal 02 14Ft	02/11/2025	14	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	7.3	<50	<50
EWal 03 9Ft	02/11/2025	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
EWal 04 9Ft	02/11/2025	9	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

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

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

3. * Indicates laboratory minimum detection limit in excess of SSL

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

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

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

ft. = Feet

bgs = Below ground surface

NA - Not analyzed

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

Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
EWall 01 14Ft	02/11/2025	14	<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
EWall 02 14Ft	02/11/2025	14	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0177	0.0244
EWall 03 9Ft	02/11/2025	9	<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
EWall 04 9Ft	02/11/2025	9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

1. Bold values exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. * Indicates laboratory minimum detection limit in excess of SSL
 4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
- (<) = Analytical result is less than the indicated laboratory reporting limit.
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-ORO = Total petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram
ft. = Feet
bgs = Below ground surface
NA - Not analyzed

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

Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	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
WC01@1Ft	01/16/2025	1	8.93	0.457	2.21	<2.00
Base@15Ft	01/23/2025	15	8.47	0.466	4.11	<2.00
Backfill	01/29/2025	Grab	8.21	0.275	0.923	<2.00
NBase 12Ft	01/29/2025	12	8.54	0.546	5.69	<2.00
E Base 01 15Ft	02/05/2025	15	7.88	0.936	3.48	<2.00
E Base 02 15Ft	02/05/2025	15	7.53	0.895	3.34	<2.00
E Base 03 15Ft	02/05/2025	15	7.66	0.894	3.48	<2.00
NBase02 15Ft	02/06/2025	15	8.15	1.58	1.47	<2.00
NWall01 14Ft	02/06/2025	14	8.43	1.22	8.84	<2.00
NWall02 14Ft	02/06/2025	14	8.28	0.67	3.32	<2.00
NWall04 9Ft	02/06/2025	9	8.59	0.844	4.73	<2.00
NWall05 9Ft	02/06/2025	9	8.08	0.763	1.12	<2.00
SBase02 15Ft	02/06/2025	15	7.95	1.48	1.68	<2.00
SWall01 14Ft	02/06/2025	14	8.39	1.09	10.4	<2.00
SWall02 14Ft	02/06/2025	14	8.87	0.795	7.1	<2.00
SWall04 9Ft	02/06/2025	9	8.72	0.742	3.71	<2.00
SWall05 9Ft	02/06/2025	9	8.98	0.868	7.49	<2.00
Nwall03 14Ft	02/07/2025	14	8.50	1.01	5.52	<2.00
Nwall06 9Ft	02/07/2025	9	7.69	2.86	2.86	<2.00
Swall03 14Ft	02/07/2025	14	8.42	2.12	11.8	<2.00
Swall06 9Ft	02/07/2025	9	8.51	2.21	12.5	<2.00
Wbase01 15Ft	02/07/2025	15	8.79	0.631	3.89	<2.00
Wbase02 15Ft	02/07/2025	15	8.90	0.489	4.94	<2.00
Wwall01 14Ft	02/07/2025	14	8.41	1.41	7.37	<2.00
Wwall02 14Ft	02/07/2025	14	9.00	0.526	2.28	<2.00
Wwall03 14Ft	02/07/2025	14	8.73	0.829	8.27	<2.00
Wwall04 9Ft	02/07/2025	9	8.54	1.29	8.68	<2.00
Wwall05 9Ft	02/07/2025	9	8.40	0.891	7.23	<2.00

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	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
Wwall06 9Ft	02/07/2025	9	8.55	0.99	0.359	<2.00
EWall 01 14Ft	02/11/2025	14	9.18	0.583	0.489	<2.00
EWall 02 14Ft	02/11/2025	14	8.27	0.704	3.07	<2.00
EWall 03 9Ft	02/11/2025	9	8.88	0.606	1.73	<2.00
EWall 04 9Ft	02/11/2025	9	8.45	1.06	6.76	<2.00
AST01@0.5'	11/16/2023	0.5	8.13	0.172	0.707	<2.00
AST02@0.5'	11/16/2023	0.5	8.24	0.102	0.576	<2.00
AST03@0.5'	11/16/2023	0.5	8.62	0.123	0.606	<2.00
DL01@4'	11/16/2023	4	8.02	0.884	7.39	<2.00
PWV01-N@4'	11/16/2023	4	8.05	0.606	1.21	<2.00
PWV01-NE@4'	11/16/2023	4	7.90	1.28	3.05	<2.00
PWV01-NW@4'	11/16/2023	4	8.74	0.258	2.00	<2.00
PWV01-S@4'	11/16/2023	4	7.89	0.365	0.452	<2.00
PWV01-SE@4'	11/16/2023	4	8.19	0.892	2.83	<2.00
PWV01-SW@4'	11/16/2023	4	7.89	1.83	2.24	<2.00
SEP01-DL@4'	11/16/2023	4	8.10	1.09	1.12	<2.00
SEP02-DL@4'	11/16/2023	4	8.08	0.758	0.474	<2.00
PWV01-B@5'	11/16/2023	5	8.14	0.24	0.488	<2.00
BKG01@0.5'	11/16/2023	0.5	7.95	1.180	3.28	<2.00
BKG02@0.5'	11/16/2023	0.5	7.97	1.22	3.16	<2.00
BKG03@0.5'	11/16/2023	0.5	7.90	1.47	2.98	<2.00
BKG04@0.5'	11/16/2023	0.5	8.14	0.857	2.26	<2.00
BKG05@0.5'	11/16/2023	0.5	7.75	1.58	2.57	<2.00
BKG01@4'	11/16/2023	4	7.87	1.48	3.58	<2.00
BKG02@4'	11/16/2023	4	7.97	1.21	2.31	<2.00
BKG03@4'	11/16/2023	4	8.59	1.21	2.90	<2.00
BKG04@4'	11/16/2023	4	8.04	0.958	2.32	<2.00

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	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
BKG05@4'	11/16/2023	4	7.89	1.33	2.50	<2.00
BKG01@5'	11/16/2023	5	7.78	1.82	2.99	<2.00
BKG02@5'	11/16/2023	5	8.01	1.09	2.97	<2.00
BKG03@5'	11/16/2023	5	7.97	1.04	2.82	<2.00
BKG04@5'	11/16/2023	5	7.87	1.18	3.40	<2.00
BKG05@5'	11/16/2023	5	7.92	1.36	2.54	<2.00
Maximum Background Concentration		0.5	8.14	1.58	3.28	<2.00
Maximum Background Concentration		4	8.59	1.48	3.58	<2.00
Maximum Background Concentration		5	8.01	1.82	3.40	<2.00

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

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

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

NA - Not analyzed/Not applicable

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

Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WC01@1Ft	01/16/2025	1	5.64	160	0.361	<0.30	10.7	12.6	7.57	<0.260	0.0867	27.3
Base@15Ft	01/23/2025	15	1.28	53.1	<0.200	<0.30	5.86	8.25	3.95	<0.260	0.0260	21.1
Backfill	01/29/2025	Grab	4.01	223	0.497	<0.30	16.5	11.5	11.0	0.300	0.0660	78.1
NBase 12Ft	01/29/2025	12	1.77	42.8	0.226	<0.30	13.7	8.53	6.87	<0.260	0.0502	30.2
E Base 01 15Ft	02/05/2025	15	0.456	5.9	<0.200	<0.30	0.832	1.92	0.86	<0.260	<0.0200	3.03
E Base 02 15Ft	02/05/2025	15	0.362	5.79	<0.200	<0.30	1.46	1.37	1.04	<0.260	<0.0200	4.62
E Base 03 15Ft	02/05/2025	15	0.518	10.1	<0.200	<0.30	2.62	2.17	1.41	<0.260	<0.0200	7.18
NBase02 15Ft	02/06/2025	15	0.788	137	<0.200	<0.30	2.33	9.95	3.02	<0.260	0.0344	8.65
NWall01 14Ft	02/06/2025	14	0.537	44.7	<0.200	<0.30	1.37	5.05	1.32	<0.260	0.0251	5.74
NWall02 14Ft	02/06/2025	14	0.702	70.7	<0.200	<0.30	1.79	5.77	1.65	<0.260	0.0293	6.77
NWall04 9Ft	02/06/2025	9	0.58	63.1	<0.200	<0.30	1.94	7.58	1.69	<0.260	0.0355	8.00
NWall05 9Ft	02/06/2025	9	0.645	81.7	<0.200	<0.30	2.14	7.15	1.63	<0.260	0.0316	7.40
SBase02 15Ft	02/06/2025	15	0.667	80.3	<0.200	<0.30	1.91	5.82	2.02	<0.260	0.0206	7.05
SWall01 14Ft	02/06/2025	14	0.504	48.4	<0.200	<0.30	0.979	2.72	1.18	<0.260	<0.0200	3.47
SWall02 14Ft	02/06/2025	14	0.611	82.7	<0.200	<0.30	1.79	6.62	1.88	<0.260	0.0316	7.05
SWall04 9Ft	02/06/2025	9	0.696	54.9	<0.200	<0.30	1.79	5.10	1.37	<0.260	0.0282	6.15
SWall05 9Ft	02/06/2025	9	0.75	93.2	<0.200	<0.30	1.79	6.94	1.72	<0.260	0.0271	6.84
Nwall03 14Ft	02/07/2025	14	1.29	8.07	<0.200	<0.30	1.50	2.95	1.42	<0.260	<0.0200	8.07
Nwall06 9Ft	02/07/2025	9	4.02	70.6	0.297	<0.30	6.78	9.82	5.56	<0.260	0.0584	23.4
Swall03 14Ft	02/07/2025	14	2.08	32.8	<0.200	<0.30	2.38	3.79	2.32	<0.260	<0.0200	11.4
Swall06 9Ft	02/07/2025	9	2.33	40.6	<0.200	<0.30	4.16	4.84	3.47	<0.260	0.0282	14.1
Wbase01 15Ft	02/07/2025	15	0.986	24.8	<0.200	<0.30	2.27	2.29	3.23	<0.260	<0.0200	6.84
Wbase02 15Ft	02/07/2025	15	1.18	72.2	<0.200	<0.30	3.71	6.42	3.13	<0.260	0.0223	13.6
Wwall01 14Ft	02/07/2025	14	1.76	45.3	<0.200	<0.30	3.57	4.55	3.23	<0.260	0.0268	13.6
Wwall02 14Ft	02/07/2025	14	2.01	30.2	<0.200	<0.30	4.93	7.60	3.76	<0.260	0.0415	20.2
Wwall03 14Ft	02/07/2025	14	1.43	48.4	<0.200	<0.30	2.62	3.27	2.65	<0.260	<0.0200	10.0
Wwall04 9Ft	02/07/2025	9	1.92	46.0	<0.200	<0.30	2.61	4.99	3.04	<0.260	<0.0200	11.6
Wwall05 9Ft	02/07/2025	9	2.82	99.6	0.249	<0.30	6.08	7.89	5.04	<0.260	0.0398	20.4
Wwall06 9Ft	02/07/2025	9	2.17	72.5	0.203	<0.30	5.15	6.68	4.38	<0.260	0.0399	18.9
EWall 01 14Ft	02/11/2025	14	1.73	128	0.267	<0.30	5.00	7.30	4.18	<0.260	0.0404	19.9
EWall 02 14Ft	02/11/2025	14	2.8	78.5	<0.200	<0.30	3.80	5.20	4.25	<0.260	0.0278	14.9
EWall 03 9Ft	02/11/2025	9	1.59	57.3	<0.200	<0.30	4.85	5.87	3.78	<0.260	0.0341	15.9
EWall 04 9Ft	02/11/2025	9	3.45	117	<0.200	<0.30	4.71	6.28	4.55	<0.260	0.0282	17.5
AST01@0.5'	11/16/2023	0.5	0.446	4.62	<0.200	<0.30	<0.400	1.18	0.878	<0.260	<0.0200	1.63
AST02@0.5'	11/16/2023	0.5	0.616	4.79	<0.200	<0.30	0.773	1.39	1.14	<0.260	<0.0200	3.20
AST03@0.5'	11/16/2023	0.5	1.64	43.0	<0.200	<0.30	2.56	3.06	3.61	<0.260	<0.0200	6.65
DL01@4'	11/16/2023	4	4.67	157	0.359	<0.30	8.27	11.7	7.24	<0.260	0.0613	26.0

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
PWV01-N@4'	11/16/2023	4	3.00	125	0.293	<0.30	6.49	10.0	6.25	<0.260	0.0487	23.7
PWV01-NE@4'	11/16/2023	4	4.12	161	0.444	<0.30	8.33	15.2	7.49	0.272	0.0823	28.5
PWV01-NW@4'	11/16/2023	4	2.86	135	0.281	<0.30	6.85	9.84	6.35	<0.260	0.0513	23.5
PWV01-S@4'	11/16/2023	4	5.93	167	0.439	<0.30	9.32	13.6	7.62	0.281	0.0764	29.6
PWV01-SE@4'	11/16/2023	4	2.99	72.4	0.274	<0.30	6.93	8.25	6.28	<0.260	0.0292	24.9
PWV01-SW@4'	11/16/2023	4	3.10	90.6	0.311	<0.30	7.99	10.4	6.85	<0.260	0.0575	24.4
SEP01-DL@4'	11/16/2023	4	2.12	95.9	0.242	<0.30	6.83	8.83	4.88	<0.260	0.0414	23.9
SEP02-DL@4'	11/16/2023	4	3.00	108	0.257	<0.30	5.83	8.48	5.70	<0.260	0.0428	21.7
PWV01-B@5'	11/16/2023	5	3.30	129	0.283	<0.30	6.91	9.61	5.69	<0.260	0.0515	23.1
BKG01@0.5'	11/16/2023	0.5	3.45	141	0.668	<0.30	8.55	22.3	6.76	<0.260	0.0536	35.0
BKG02@0.5'	11/16/2023	0.5	3.65	149	1.13	<0.30	10.6	41.8	6.74	<0.260	0.0595	39.9
BKG03@0.5'	11/16/2023	0.5	3.70	162	0.937	<0.30	9.91	32.9	6.89	<0.260	0.0643	38.0
BKG04@0.5'	11/16/2023	0.5	0.897	153	0.516	<0.30	3.66	22.7	2.50	<0.260	0.0427	14.1
BKG05@0.5'	11/16/2023	0.5	0.984	147	0.641	<0.30	3.96	27.0	2.55	<0.260	0.0550	14.7
BKG01@4'	11/16/2023	4	3.46	140	0.811	<0.30	9.59	54.9	6.58	<0.260	0.0636	36.4
BKG02@4'	11/16/2023	4	3.78	162	0.962	<0.30	11.2	58.3	7.13	<0.260	0.0664	42.3
BKG03@4'	11/16/2023	4	0.867	157	0.612	<0.30	3.86	27.4	2.46	<0.260	0.0387	15.2
BKG04@4'	11/16/2023	4	0.915	146	0.95	<0.30	5.17	32.9	2.85	<0.260	0.0452	17.8
BKG05@4'	11/16/2023	4	0.866	152	0.806	<0.30	4.87	45.8	2.49	<0.260	0.0407	18.1

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG01@5'	11/16/2023	5	3.33	92.9	0.717	<0.30	8.50	25.0	6.29	<0.260	0.0635	32.1
BKG02@5'	11/16/2023	5	3.65	150	1.01	<0.30	11.2	55.8	6.91	<0.260	0.0535	42.1
BKG03@5'	11/16/2023	5	0.902	137	0.834	<0.30	4.39	36.3	2.44	<0.260	0.0382	16.3
BKG04@5'	11/16/2023	5	0.807	293	0.734	<0.30	3.79	20.1	2.52	<0.260	0.0520	13.1
BKG05@5'	11/16/2023	5	0.899	124	0.836	<0.30	4.38	33.4	2.43	<0.260	0.0359	16.6
1.25x Maximum Background Concentration		0.5	4.63	203	1.41	0	13.25	52.3	8.61	0.325	0.0804	49.9
1.25x Maximum Background Concentration		4	4.73	203	1.20	0	14.0	72.9	8.91	0.325	0.0830	52.9
1.25x Maximum Background Concentration		5	4.56	366	1.26	0	14.0	69.8	8.64	0.325	0.0794	52.6

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

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

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

4. Non-detect background results accounted for in the highest background concentration by using the reporting limit.

ECMC = Energy & Carbon Management Commission

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

mg/kg = Milligrams per kilogram

ft. = Feet

bgs = Below ground surface

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed/Not applicable

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

Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Depth to Groundwater Below Ground Surface (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67					
GWS	01/29/2025	640	<1.0	96	61	15	62	12	NA	NA	~15	NA	NA

1. Bold values exceed the ECMC limit(s)

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, NL - No Limit, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

TABLE 6
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE 100322
BOCKIUS 15-1,8, PFANNEBECKER C14-32, WELD COUNTY, COLORADO
REM # 28820

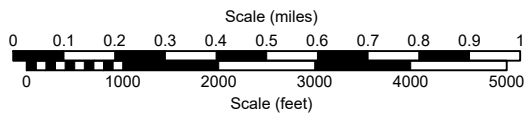
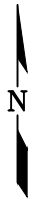
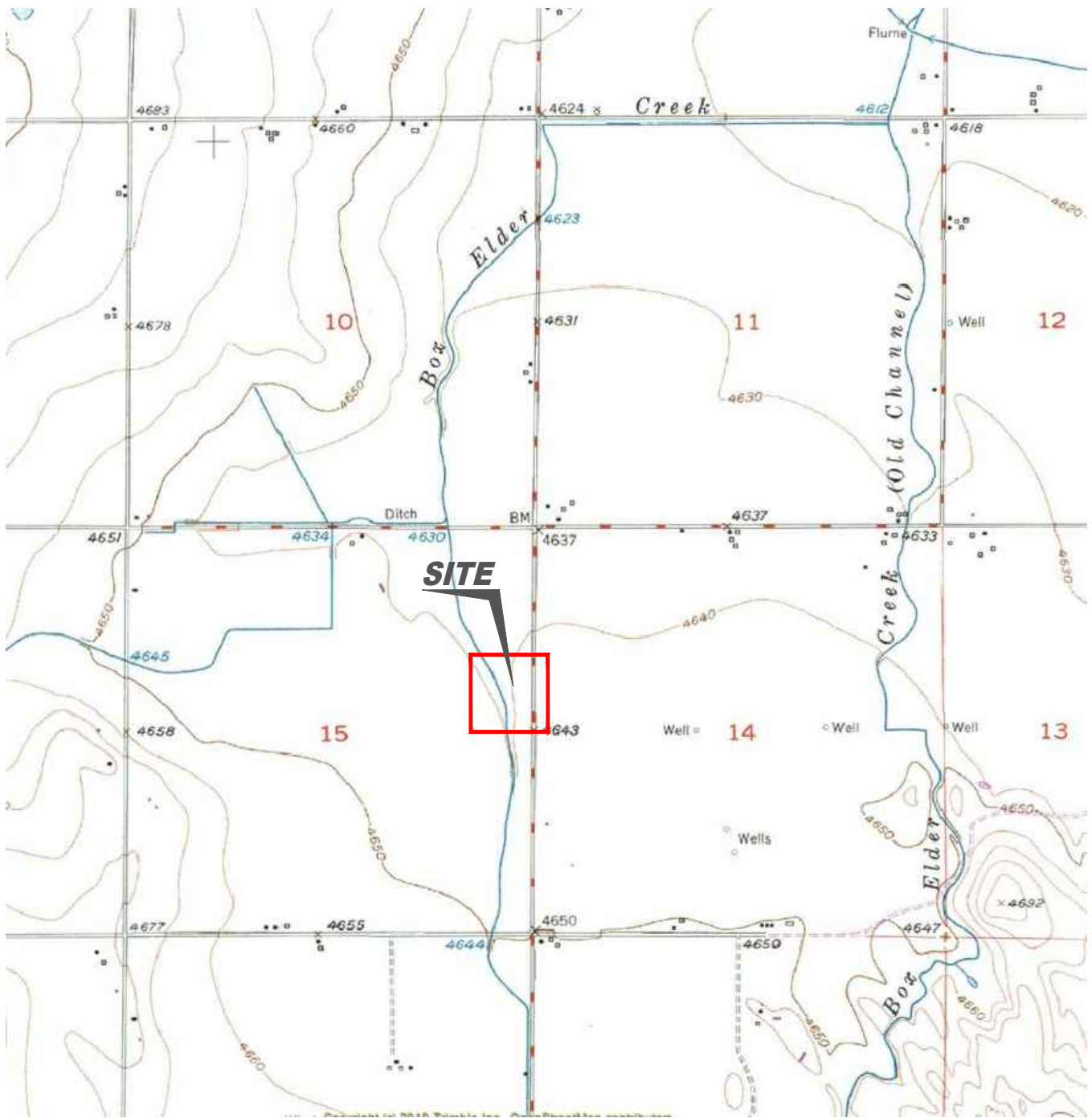
Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits*		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
GWS	01/29/2025	3540	432	1250
Background Concentration (Current)		-	-	-

1. Bold values exceed the ECMC limit(s)

2. Blue highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

*Dissolved metals refer to Colorado Regulation 41 Standards



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
Noble Energy, Inc.
Bockius 15-1, 8, Pfannebecker C14-32, D, C, 15-22
 SENE Section 15, T4N, R64W, 6th PM
 Weld County, Colorado
 40.312693°, -104.527923°

Project No. C023-304	API #	Facility # 447608
Date 5/13/24	Remediation # 28820	Filename 23302T

Bockius15-1,8, Pfannebecker C14-32D Excavation

40.312669, -104.5276715
FAC. ID: 447608
REM 28820

Image Date: 10/202 (Tank battery has been removed)

Legend





-  Bockius 15-01 Excavation Extent
-  Impacted Excavation Confirmation Sample Locations
-  Former Multiphase Flowlines
-  Proposed Monitoring Well Locations
-  Proposed System Well
-  Unimpacted Excavation Confirmation Sample Locations



Photo Log



DIRECTION
254 deg(T)

40.31268°N
104.52761°W

ACCURACY 3 m
DATUM WGS84



2025-01-16
10:20:03-07:00

Description:

BOCKIUS 15-1,8, PFANNEBECKER C14-32 D,C15-22 suspected impacted location, looking W

Photo Log



DIRECTION
167 deg(T)

40.31274°N
104.52767°W

ACCURACY 5 m
DATUM WGS84



2025-01-16
10:19:55-07:00

Description:

BOCKIUS 15-1,8, PFANNEBECKER C14-32 D,C15-22 suspected impacted location, looking S

Photo Log



DIRECTION
78 deg(T)

40.31267°N
104.52773°W

ACCURACY 5 m
DATUM WGS84



2025-01-16
10:19:47-07:00

Description:

BOCKIUS 15-1,8, PFANNEBECKER C14-32 D,C15-22 suspected impacted location, looking E

Photo Log



DIRECTION
4 deg(T)

40.31262°N
104.52771°W

ACCURACY 5 m
DATUM WGS84



2025-01-16
10:19:40-07:00

Description:

BOCKIUS 15-1,8, PFANNEBECKER C14-32 D,C15-22 suspected impacted location, looking N