

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
SPIKE STATE CC-64N63W 30NESW, WELD COUNTY, COLORADO
REM # 26863

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
AST01@1'	06/08/2023	1'	40.2805508	-104.48371	-	7.1
AST02@1'	06/08/2023	1'	40.2805921	-104.48372	-	11.5
ECD01@6"	06/08/2023	6"	40.2808234	-104.48371	-	25.9
PWVB01@6'	06/08/2023	6'	40.2806272	-104.48373	-	9.1
PWVW01@5'	06/08/2023	5'	40.2806302	-104.48375	-	12.4
SEP02@4'	06/08/2023	4'	40.2807747	-104.48375	-	1004
B - 5FT	07/02/2024	5'	40.2807766	-104.48375	0.9	0.0
Backfill	07/02/2024	N/A	-	-	0.9	0.0
E Wall - 4FT	07/02/2024	4'	40.2807783	-104.48374	0.9	0.5
N Wall - 4FT	07/02/2024	4'	40.2807940	-104.48376	0.9	0.2
S Wall - 4FT	07/02/2024	4'	40.2807601	-104.48375	0.9	0.3
W Wall - 4FT	07/02/2024	4'	40.2807735	-104.48377	0.9	0.5
BKG01	07/02/2024	4', 5'	40.2811057	-104.48391	0.8	0.0
BKG02	07/02/2024	4', 5'	40.2810918	-104.48373	0.8	0.0
BKG03	07/02/2024	4', 5'	40.2810541	-104.48358	0.8	0.0
BKG04	07/02/2024	4', 5'	40.2809215	-104.48345	0.8	0.0
BKG05	07/02/2024	4', 5'	40.2808069	-104.48341	0.8	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 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
SPIKE STATE CC-64N63W 30NESW, WELD COUNTY, COLORADO
REM # 26863

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@1'	06/08/2023	1'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST02@1'	06/08/2023	1'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
ECD01@6"	06/08/2023	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVB01@6'	06/08/2023	6'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWVW01@5'	06/08/2023	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP02@4'	06/08/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	0.037	<0.0038	0.99	0.99	<50	<50
B - 5FT	07/02/2024	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
Backfill	07/02/2024	N/A	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
E Wall - 4FT	07/02/2024	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
N Wall - 4FT	07/02/2024	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
S Wall - 4FT	07/02/2024	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
W Wall - 4FT	07/02/2024	4'	<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

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 POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
SPIKE STATE CC-64N63W 30NESW, WELD COUNTY, COLORADO
REM # 26863

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
AST01@1'	06/08/2023	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
AST02@1'	06/08/2023	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
ECD01@6"	06/08/2023	6"	<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
PWVB01@6'	06/08/2023	6'	<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
PWVW01@5'	06/08/2023	5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP02@4'	06/08/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0135	<0.00500	<0.00500	0.0867	0.0162
B - 5FT	07/02/2024	5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00645	<0.00500	<0.00500	0.00745	<0.00500	<0.00500
Backfill	07/02/2024	0	<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
E Wall - 4FT	07/02/2024	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
N Wall - 4FT	07/02/2024	4'	<0.00500	<0.00500	0.0125	0.00772	0.0117	<0.00500	0.012	<0.00500	0.0258	<0.00500	0.00795	0.0245	<0.00500	<0.00500
S Wall - 4FT	07/02/2024	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
W Wall - 4FT	07/02/2024	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

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

NA - Not analyzed

= 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 100322
SPIKE STATE CC-64N63W 30NESW, WELD COUNTY, COLORADO
REM # 26863

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
AST01@1'	06/08/2023	1'	3.90	0.245	0.0946	0.0148
AST02@1'	06/08/2023	1'	5.06	0.211	0.0227	0.0729
ECD01@6"	06/08/2023	6"	7.95	0.298	0.250	0.378
PWVB01@6'	06/08/2023	6'	7.88	0.830	1.95	0.456
PWVW01@5'	06/08/2023	5'	7.17	0.272	0.0739	0.122
SEP02@4'	06/08/2023	4'	7.08	0.445	0.888	0.142
B - 5FT	07/02/2024	5'	8.17	0.331	0.0936	<2.00
Backfill	07/02/2024	0	6.90	0.307	0.102	<2.00
E Wall - 4FT	07/02/2024	4'	7.66	0.354	0.0239	<2.00
N Wall - 4FT	07/02/2024	4'	8.33	0.297	0.0497	<2.00
S Wall - 4FT	07/02/2024	4'	7.95	0.323	0.103	<2.00
W Wall - 4FT	07/02/2024	4'	7.88	0.222	0.0328	<2.00

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
BKG01 - 4FT	07/02/2024	4'	7.67	0.153	0.0210	<2.00
BKG01 - 5FT	07/02/2024	5'	7.37	0.133	0.0218	<2.00
BKG02 - 4FT	07/02/2024	4'	6.76	0.0742	0.0228	<2.00
BKG02 - 5FT	07/02/2024	5'	7.56	0.0845	0.0240	<2.00
BKG03 - 4FT	07/02/2024	4'	7.01	0.0905	0.0198	<2.00
BKG03 - 5FT	07/02/2024	5'	7.02	0.0338	0.0278	<2.00
BKG04 - 4FT	07/02/2024	4'	7.32	0.0172	0.0206	<2.00
BKG04 - 5FT	07/02/2024	5'	8.07	0.118	0.0261	<2.00
BKG05 - 4FT	07/02/2024	4'	7.84	0.119	0.0158	<2.00
BKG05 - 5FT	07/02/2024	5'	7.71	0.224	0.0165	<2.00
Maximum Root Background Concentration (0 - 3 ft)			NA	NA	NA	NA
Average Root Background Concentration (0 - 3 ft)			NA	NA	NA	NA
Maximum Background Concentration			8.07	0.224	0.0278	<2.00
Average Background Concentration			7.43	0.105	0.0216	<2.00

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

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

 = 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 100322
SPIKE STATE CC-64N63W 30NESW, WELD COUNTY, COLORADO
REM # 26863

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
B - 5FT	07/02/2024	5'	1.51	36.6	<0.200	<0.30	3.51	4.83	3.12	<0.260	<0.0200	15.2
Backfill	07/02/2024	0	1.55	35.0	<0.181	<0.30	3.03	3.66	2.99	<0.236	0.0184	13.2
E Wall - 4FT	07/02/2024	4'	2.34	40.1	<0.180	<0.30	4.77	7.28	4.24	<0.234	<0.0180	18.2
N Wall - 4FT	07/02/2024	4'	1.83	37.9	<0.200	<0.30	3.59	4.87	3.41	<0.260	<0.0200	15.6
S Wall - 4FT	07/02/2024	4'	1.37	33.4	<0.200	<0.30	2.72	3.84	2.44	<0.260	<0.0200	11.2
W Wall - 4FT	07/02/2024	4'	1.84	41.4	<0.200	<0.30	3.82	5.14	3.58	<0.260	<0.0200	15.7
BKG01 - 4FT	07/02/2024	4'	1.25	35.6	<0.200	<0.30	2.64	3.02	2.68	<0.260	0.0216	11.7
BKG01 - 5FT	07/02/2024	5'	1.32	36.5	<0.200	<0.30	2.91	3.41	3.09	<0.260	0.0337	12.7
BKG02 - 4FT	07/02/2024	4'	1.42	36.4	<0.200	<0.30	2.68	3.31	2.78	<0.260	0.0297	11.8
BKG02 - 5FT	07/02/2024	5'	1.38	35.2	<0.200	<0.30	2.71	3.25	2.81	<0.260	<0.0200	12.0
BKG03 - 4FT	07/02/2024	4'	1.33	42.8	<0.200	<0.30	2.77	4.13	2.87	<0.260	<0.0200	12.3
BKG03 - 5FT	07/02/2024	5'	1.54	42.7	<0.200	<0.30	3.20	3.82	3.16	<0.260	<0.0200	14.0
BKG04 - 4FT	07/02/2024	4'	1.37	44.8	<0.200	<0.30	2.89	3.48	3.20	<0.260	<0.0200	13.6
BKG04 - 5FT	07/02/2024	5'	1.21	39.0	<0.200	<0.30	3.28	3.45	2.87	<0.260	<0.0200	12.8
BKG05 - 4FT	07/02/2024	4'	2.03	57.0	<0.200	<0.30	4.98	5.15	5.40	<0.260	0.0208	23.0
BKG05 - 5FT	07/02/2024	5'	2.01	63.3	<0.200	<0.30	5.48	5.45	5.98	<0.260	0.0314	25.2
Maximum Root Zone Background Concentration (0 - 3 ft)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
125% Average Root Zone Background Concentration (0 - 3 ft)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum Background Concentration			2.03	63.3	<0.200	<0.200	5.48	5.45	5.98	<0.260	0.0337	25.2
125% Average Background Concentration			1.86	54.2	<0.200	<0.200	4.19	4.81	4.36	<0.260	0.0297	18.6

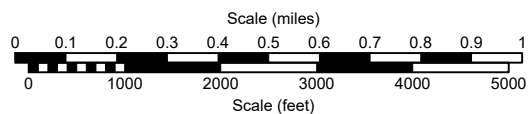
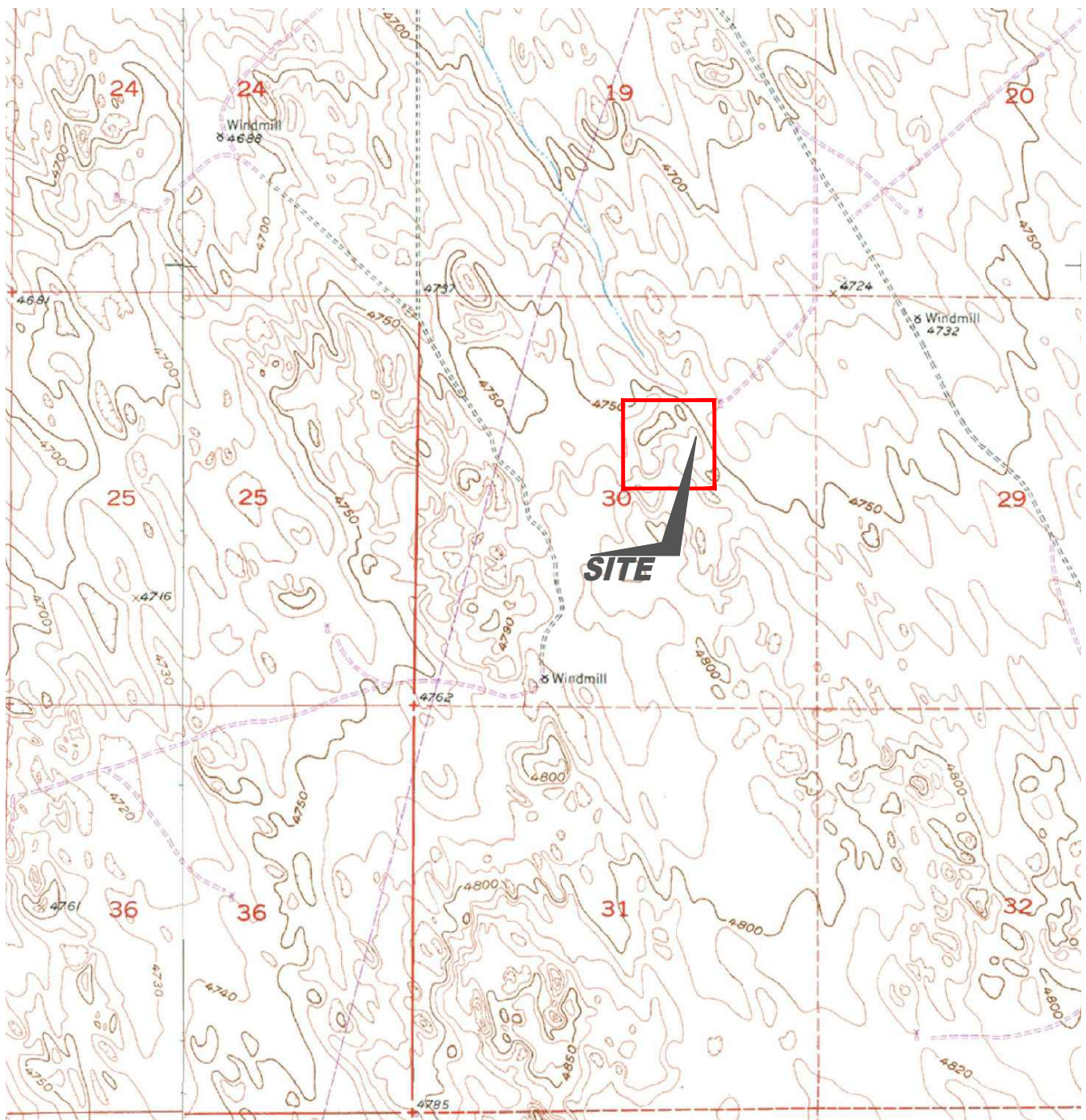
1. Bold values exceed the ECMC Table 915-1 limit(s)

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - SPIKE STATE CC-64N63W 30NESW
 NESW Sec. 30, T4N, R63W, 6th PM
 Weld County, Colorado
 40.280778°, -104.483776°

Project # CO23-156	API #	Facility # 317854
Date 10/30/24	Remediation # 26863	Filename 23156T





LEGEND

● WELL HEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	EXTENT OF EXCAVATION
▲ DECOMMISSION PID READING		EXCAVATED AREA	FENCE LINE
▲ EXCAVATION PID READING			CONTAINMENT BERM
			CONTAINMENT WALL

Figure 2
SITE MAP

NOBLE ENERGY INC - SPIKE STATE CC-64N63W 30NESW
 NESW Sec. 30, T4N, R63W, 6th PM
 Weld County, Colorado
 40.280778°, -104.483776°

Project No. CO23-156	API #	Facility # 317854
Date 10/30/24	Remediation # 26863	Filename 23156QE



TOTAL EXCAVATION:

07/02/2024 ~ 2 cubic yards

Transported to Buffalo Ridge Landfill
Keenesburg, Colorado

Excavation Proposed to have the
north sidewall extended 5ft further.
(Proposed Excavation Extension
Not to Scale)

N Wall - 4FT		N Wall - 4FT	
07/02/2024		07/02/2024	
4"	4"	4"	4"
ACE	<0.00500	B	<0.0020
Ant	<0.00500	T	<0.0050
BaA	0.0128	E	<0.0050
BaP	0.00772	X	<0.010
BbF	0.0117	124TMB	<0.0050
BkF	<0.00500	135TMB	<0.0050
Chr	0.012	N	<0.0038
DBahAnt	<0.00500	G	<0.50
FLU	0.0258	D	<50
FL	<0.00500	O	<50
H23cdPY	0.00795		
PY	0.0245		
1MN	<0.00500		
2MN	<0.00500		

B - 5FT		B - 5FT	
07/02/2024		07/02/2024	
5"	5"	5"	5"
ACE	<0.00500	B	<0.0020
Ant	<0.00500	T	<0.0050
BaA	<0.00500	E	<0.0050
BaP	<0.00500	X	<0.010
BbF	<0.00500	124TMB	<0.0050
BkF	<0.00500	135TMB	<0.0050
Chr	<0.00500	N	<0.0038
DBahAnt	<0.00500	G	<0.50
FLU	0.00645	D	<50
FL	<0.00500	O	<50
H23cdPY	<0.00500		
PY	0.00745		
1MN	<0.00500		
2MN	<0.00500		

Backfill		Backfill	
07/02/2024		07/02/2024	
0		N/A	
ACE	<0.00500	B	<0.0020
Ant	<0.00500	T	<0.0050
BaA	<0.00500	E	<0.0050
BaP	<0.00500	X	<0.010
BbF	<0.00500	124TMB	<0.0050
BkF	<0.00500	135TMB	<0.0050
Chr	<0.00500	N	<0.0038
DBahAnt	<0.00500	G	<0.50
FLU	<0.00500	D	<50
FL	<0.00500	O	<50
H23cdPY	<0.00500		
PY	<0.00500		
1MN	<0.00500		
2MN	<0.00500		

EXTENT OF EXCAVATION
10' x 13' x 5' deep

W Wall - 4FT		W Wall - 4FT	
07/02/2024		07/02/2024	
4"	4"	4"	4"
ACE	<0.00500	B	<0.0020
Ant	<0.00500	T	<0.0050
BaA	<0.00500	E	<0.0050
BaP	<0.00500	X	<0.010
BbF	<0.00500	124TMB	<0.0050
BkF	<0.00500	135TMB	<0.0050
Chr	<0.00500	N	<0.0038
DBahAnt	<0.00500	G	<0.50
FLU	<0.00500	D	<50
FL	<0.00500	O	<50
H23cdPY	<0.00500		
PY	<0.00500		
1MN	<0.00500		
2MN	<0.00500		

E Wall - 4FT		E Wall - 4FT	
07/02/2024		07/02/2024	
4"	4"	4"	4"
ACE	<0.00500	B	<0.0020
Ant	<0.00500	T	<0.0050
BaA	<0.00500	E	<0.0050
BaP	<0.00500	X	<0.010
BbF	<0.00500	124TMB	<0.0050
BkF	<0.00500	135TMB	<0.0050
Chr	<0.00500	N	<0.0038
DBahAnt	<0.00500	G	<0.50
FLU	<0.00500	D	<50
FL	<0.00500	O	<50
H23cdPY	<0.00500		
PY	<0.00500		
1MN	<0.00500		
2MN	<0.00500		

S Wall - 4FT		S Wall - 4FT	
07/02/2024		07/02/2024	
4"	4"	4"	4"
ACE	<0.00500	B	<0.0020
Ant	<0.00500	T	<0.0050
BaA	<0.00500	E	<0.0050
BaP	<0.00500	X	<0.010
BbF	<0.00500	124TMB	<0.0050
BkF	<0.00500	135TMB	<0.0050
Chr	<0.00500	N	<0.0038
DBahAnt	<0.00500	G	<0.50
FLU	<0.00500	D	<50
FL	<0.00500	O	<50
H23cdPY	<0.00500		
PY	<0.00500		
1MN	<0.00500		
2MN	<0.00500		

2013 GOOGLE EARTH AERIAL IMAGE

0 10 20 30 40 50
Scale (feet)

LEGEND

● WELL HEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	EXTENT OF EXCAVATION
✱ SOIL SAMPLE LOCATION		EXCAVATED AREA	FENCE LINE
			CONTAINMENT BERM
			CONTAINMENT WALL

SAMPLE ID	DATE	DEPTH	DEPTH (ft)
ACE	<0.00500	ACENAPHTHENE (mg/kg)	
Ant	<0.00500	ANTHRACENE (mg/kg)	
BaA	<0.00500	BENZO (A) ANTHRACENE (mg/kg)	
BaP	<0.00500	BENZO (A) PYRENE (mg/kg)	
BbF	<0.00500	BENZO (B) FLUORANTHENE (mg/kg)	
BkF	<0.00500	BENZO (K) FLUORANTHENE (mg/kg)	
Chr	<0.00500	CHRYSENE (mg/kg)	
DBahAnt	<0.00500	DBENZO (A,H) ANTHRACENE (mg/kg)	
FLU	<0.00500	FLUORANTHENE (mg/kg)	
FL	<0.00500	FLUORENE (mg/kg)	
H23cdPY	<0.00500	INDENO (1,2,3-CD) PYRENE (mg/kg)	
PY	<0.00500	PYRENE (mg/kg)	
1MN	<0.00500	1-METHYLNAPHTHALENE (mg/kg)	
2MN	<0.00500	2-METHYLNAPHTHALENE (mg/kg)	

SAMPLE ID	DATE	DEPTH	DEPTH (ft)
B	<0.00500	BENZENE (mg/kg)	
T	<0.00500	TOLUENE (mg/kg)	
E	<0.00500	ETHYLBENZENE (mg/kg)	
X	<0.010	TOTAL XYLENES (mg/kg)	
124TMB	<0.00500	1,2,4-TRIMETHYLBENZENE (mg/kg)	
135TMB	<0.00500	1,3,5-TRIMETHYLBENZENE (mg/kg)	
N	<0.0038	NAPHTHALENE (mg/kg)	
G	<0.50	TPH-GRO (mg/kg)	
D	<50	TPH-ORD (mg/kg)	
O	<50	TPH-ORD (mg/kg)	

Figure 3

ORGANIC SOIL CHEMISTRY MAP

NOBLE ENERGY INC - SPIKE STATE CC-64N63W 30NESW
NESW Sec. 30, T4N, R63W, 6th PM
Weld County, Colorado
40.280778°, -104.483776°

Project No.
CO23-156

API #

Facility #
317854

Date
10/30/24

Remediation #
26863

Filename
23156QE



TOTAL EXCAVATION:

07/02/2024 ~ 2 cubic yards

Transported to Buffalo Ridge Landfill
Keenesburg, Colorado

N Wall - 4FT		N Wall - 4FT	
07/02/2024		07/02/2024	
4'		4'	
As	1.83	pH	8.33
BA	37.9	EC	0.287
CD	<0.200	SAR	0.0497
CR(VI)	<0.30	B	<2.00
CU	3.59		
PB	4.87		
NI	3.41		
SE	<0.260		
AG	<0.0200		
Z	15.6		

B - 5FT		B - 5FT	
07/02/2024		07/02/2024	
5'		5'	
As	1.51	pH	8.17
BA	36.6	EC	0.331
CD	<0.200	SAR	0.0936
CR(VI)	<0.30	B	<2.00
CU	3.51		
PB	4.83		
NI	3.12		
SE	<0.260		
AG	<0.0200		
Z	15.2		

Backfill		Backfill	
07/02/2024		07/02/2024	
0		0	
As	1.86	pH	6.9
BA	35	EC	0.307
CD	<0.181	SAR	0.102
CR(VI)	<0.30	B	<2.00
CU	3.03		
PB	3.66		
NI	2.99		
SE	<0.236		
AG	0.0184		
Z	13.2		

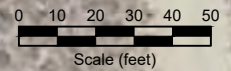
EXTENT OF EXCAVATION
10' x 13' x 5' deep

W Wall - 4FT		W Wall - 4FT	
07/02/2024		07/02/2024	
4'		4'	
As	1.84	pH	7.88
BA	41.4	EC	0.222
CD	<0.200	SAR	0.0328
CR(VI)	<0.30	B	<2.00
CU	3.82		
PB	5.14		
NI	3.58		
SE	<0.260		
AG	<0.0200		
Z	15.7		

E Wall - 4FT		E Wall - 4FT	
07/02/2024		07/02/2024	
4'		4'	
As	2.34	pH	7.66
BA	40.1	EC	0.354
CD	<0.180	SAR	0.0239
CR(VI)	<0.30	B	<2.00
CU	4.77		
PB	7.28		
NI	4.24		
SE	<0.234		
AG	<0.0180		
Z	18.2		

S Wall - 4FT		S Wall - 4FT	
07/02/2024		07/02/2024	
4'		4'	
As	1.37	pH	7.95
BA	33.4	EC	0.323
CD	<0.200	SAR	0.103
CR(VI)	<0.30	B	<2.00
CU	2.72		
PB	3.84		
NI	2.44		
SE	<0.260		
AG	<0.0200		
Z	11.2		

N



2013 GOOGLE EARTH AERIAL IMAGE

LEGEND

- WELL HEAD LOCATION
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXCAVATED AREA
- EXTENT OF EXCAVATION
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID		
DATE	DATE	DATE	DATE		
DEPTH	DEPTH	DEPTH	DEPTH		
As	<0.01	ARSENIC (mg/kg)	pH	<0.01	pH (unit)
BA	<0.01	BARIUM (mg/kg)	EC	7.00	EC (mmhos/cm)
CD	<0.01	CADMIUM (mg/kg)	SAR	<1	SAR (unit)
CR(VI)	<0.01	CHROMIUM (mg/kg)	B	<5	BORON (mg/L)
CU	<0.01	COPPER (mg/kg)			
PB	<0.01	LEAD (mg/kg)			
NI	<0.01	NICKEL (mg/kg)			
SE	<0.01	SELENIUM (mg/kg)			
AG	<0.01	SILVER (mg/kg)			
Z	<0.01	ZINC (mg/kg)			

Figure 4

METALS AND INORGANIC SOIL CHEMISTRY MAP

NOBLE ENERGY INC - SPIKE STATE CC-64N63W 30NESW

NESW Sec. 30, T4N, R63W, 6th PM

Weld County, Colorado

40.280778°, -104.483776°

Project No.
CO23-156

API #

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317854

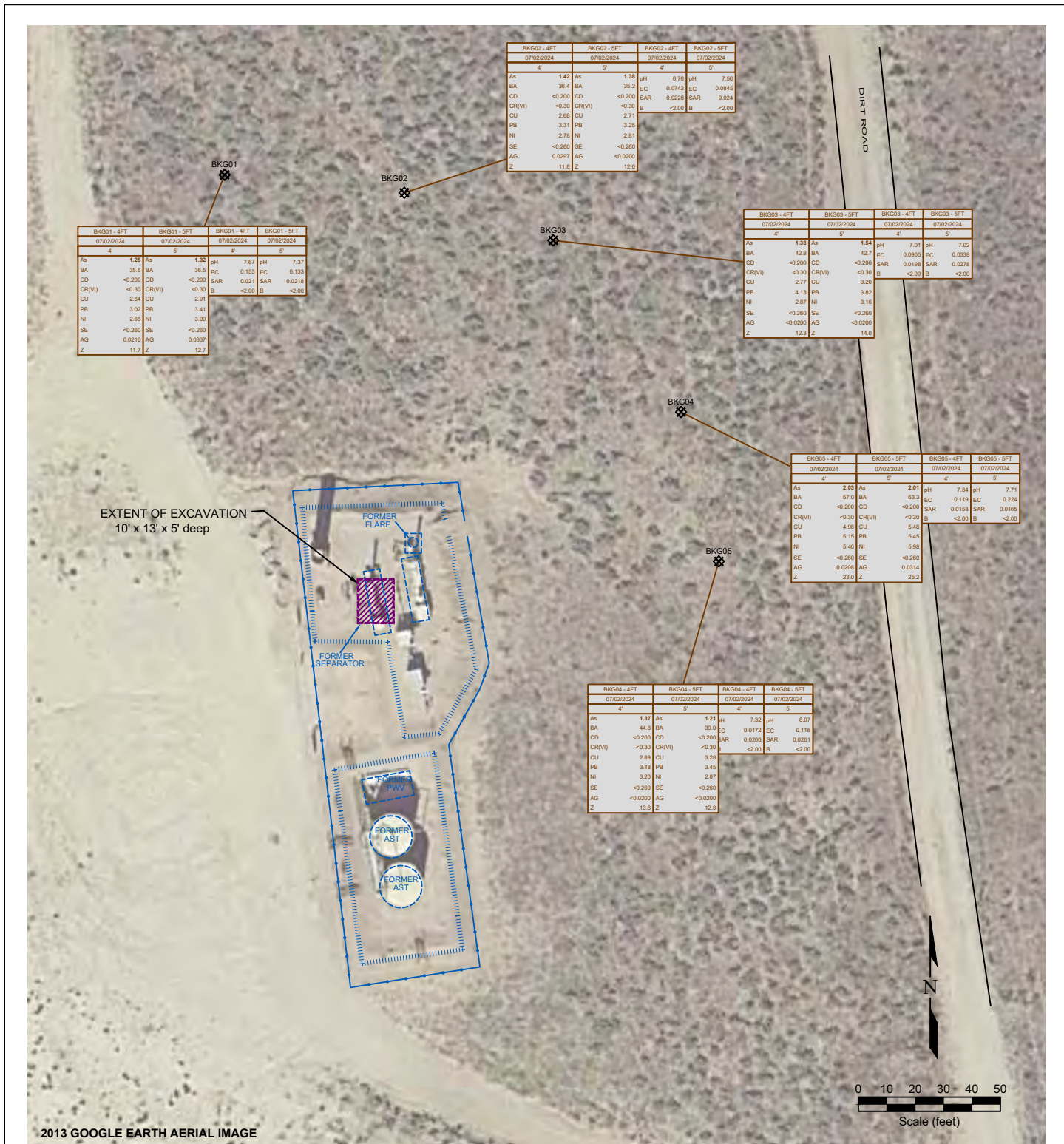
Date
10/30/24

Remediation #

Filename

23156QE





LEGEND

● WELL HEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	EXTENT OF EXCAVATION
● SOIL SAMPLE LOCATION		EXCAVATED AREA	FENCE LINE
			CONTAINMENT BERM
			CONTAINMENT WALL

SAMPLE	SAMPLE ID	SAMPLE	SAMPLE ID
DATE	DATE SAMPLED	DATE	DATE SAMPLED
DEPTH	DEPTH (ft)	DEPTH	DEPTH (ft)
As	ARSENIC (mg/kg)	pH	pH (unitless)
BA	BARIUM (mg/kg)	EC	EC (microhm/cm)
CD	CADMIUM (mg/kg)	SAR	SAR (unitless)
CR(VI)	CHROMIUM (mg/kg)	B	BORON (mg/L)
CU	COPPER (mg/kg)		
PB	LEAD (mg/kg)		
NI	NICKEL (mg/kg)		
SE	SELENIUM (mg/kg)		
AG	SILVER (mg/kg)		
Z	ZINC (mg/kg)		

Figure 5

BACKGROUND SAMPLE SOIL CHEMISTRY MAP

NOBLE ENERGY INC - SPIKE STATE CC-64N63W 30NESW
NESW Sec. 30, T4N, R63W, 6th PM
Weld County, Colorado
40.280778° , -104.483776°

Project No. CO23-156	API #	Facility # 317854	REMONT ENVIRONMENTAL
Date 10/30/24	Remediation # 26863	Filename 23156QE	