

Baker C Unit-61N68W 27SENE

SENE Sec. 27-T1N-R68W

Facility ID: 321538

Spill/Release Point ID: 489953

Remediation Project #: 38381

Excavation Summary Report

June through October 2025

Prepared by Tasman, Inc.



On behalf of Crestone Peak Resources Operating, LLC





February 3, 2026

Excavation Summary Report

Project Name: Baker C Unit-61N68W 27SENE

Spill/Release Point ID: 489953

REM #: 38381

Site History: On April 23, 2025, Crestone Peak Resources Operating, LLC (Client) reported a historical release to the Colorado Energy & Carbon Management Commission (ECMC) via Form 19-Initial/Supplemental Document No. 404178571 as historical impacts were discovered during decommissioning activities at the Baker C Unit-61N68W 27SENE (Site) facility. This report illustrates remediation activities, impacted soil removal, and the results of confirmation and background soil sampling activities completed from June through October 2025.

Soil Summary: Tasman, Inc. (Tasman) collected a total of twenty-six (26) confirmation soil samples during decommissioning and excavation activities at the Site at depths ranging from approximately 6 inches to 4 feet below ground surface (bgs). The final excavation area measures approximately 289 square feet. Approximately 32 cubic yards of impacted soils were removed during excavation activities and disposed of at the Front Range landfill in Erie, Colorado.

The Site lithology generally consists of a brown sand from approximately 6 inches to 4 feet bgs. A total of five (5) background samples have been collected from soils at similar depths and lithologies to the excavations. A total of fifteen (15) background samples from nearby Stipanovich 41-27 & 8-0-27 (REM #: 36222) remediation project were utilized for background comparison based on their similar depths, lithology, and proximity to the Site. There are currently no samples with concentrations above applicable ECMC Table 915-1 soil standards and Site-specific backgrounds left in place at the Site. Left in place confirmation soil sample locations are illustrated on Figure 2A and 2B. Background soil samples are illustrated on Figure 3.

Groundwater Summary: Groundwater was observed at the separator excavation at a depth of approximately 3 feet bgs. Tasman collected one (1) groundwater sample, GW01, on August 1, 2025. Analytical results for GW01 exhibited concentrations that were non-detect or below applicable ECMC Table 915-1: Organic Compounds in Groundwater. An evaluation of inorganic constituents in groundwater was not completed as background concentrations for inorganic compounds in groundwater have not been established for the Site.

Conclusion and Recommendations: Based on analytical results, no concentrations above applicable ECMC Table 915-1 soil standards or Site-specific background concentrations are currently left in place at the Site.

To further characterization inorganic concentrations in groundwater, Tasman, on behalf of the Client, will install temporary monitoring wells to determine naturally occurring inorganic concentrations in groundwater. Since concentrations in groundwater sample GW01 were non-detect for ECMC Table 915-



February 3, 2026

1: Organic Compounds in Groundwater, Tasman proposes a sampling analysis plan of only ECMC Table 915-1 inorganic compounds in groundwater. Grab groundwater samples will be collected during one monitoring event following installation to characterize inorganic concentrations at the Site. Additionally, temporary monitoring wells will be surveyed to determine groundwater flow direction. Proposed temporary monitoring well installation locations are illustrated on Figure 4.

Following your review, feel free to contact Tasman at tasmanreports-civitas@tasman-geo.com if you have any questions.

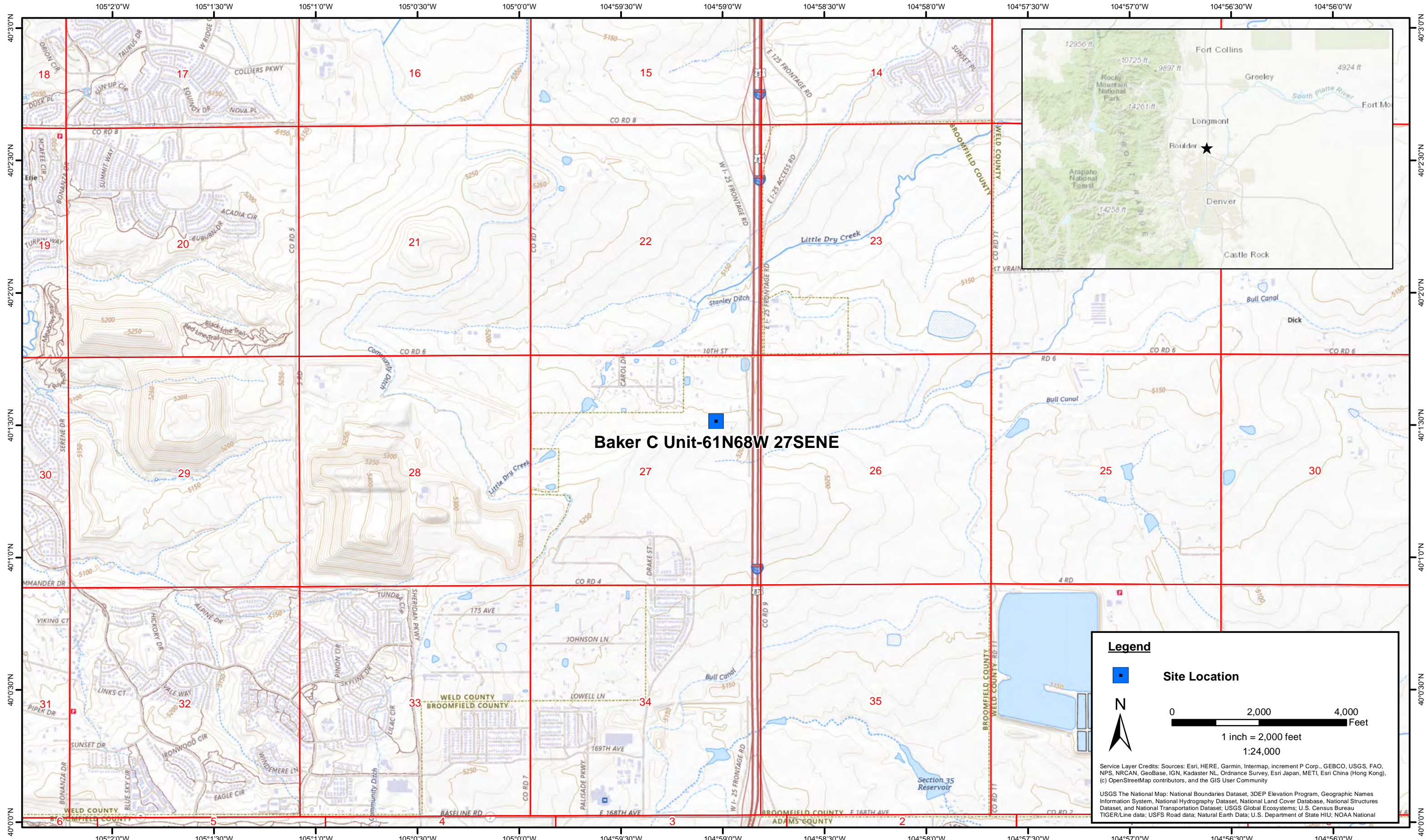
Written by:

Abigail Martin
Environmental Scientist I

Reviewed by:

Logan Molson
Environmental Scientist II

FIGURES



DATE:	April 2025
DESIGNED BY:	S. Vogt
DRAWN BY:	J. Woffinden



Crestone Peak Resources Operating, LLC
Baker C Unit-61N68W 27SENE
 SENE Sec. 27-T1N-R68W
 Broomfield County, Colorado

Site Location Map

Figure
1

Legend

- + Soil sample location – Field Screened (Collected via Trimble GPS)
- + Soil sample location – Below ECMC Table 915-1 Soil Standards (Collected via Trimble GPS)
- + Soil sample location – Exceeded ECMC Table 915-1 Soil Standards (Collected via Trimble GPS)
- Excavation extent
- Stockpile location – Below ECMC Table 915-1 Soil Standards (Collected via Trimble GPS)

ECMC Table 915-1 Soil Standards	
TVPH-GRO (mg/kg)	500
TEPH-DRO (mg/kg)	
TEPH-ORO (mg/kg)	
Chromium (VI) (mg/kg)	0.00067 / 0.3
pH	6 - 8.3

Notes

Crestone Peak Resources Operating, LLC site infrastructure has been removed.

All locations are approximate unless otherwise noted.

GPS = Global Positioning System

ECMC = Colorado Energy & Carbon Management Commission

BOLD = Analytical result is in exceedance of ECMC Table 915-1 Protection of Groundwater Soil Screening Level Concentrations or Soil Suitability for Reclamation Parameters

BOLD = Analytical result is in exceedance of ECMC Table 915-1 Residential Soil Screening Level Concentrations

TVPH-GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH-DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH-ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

Chromium (VI) = Hexavalent Chromium

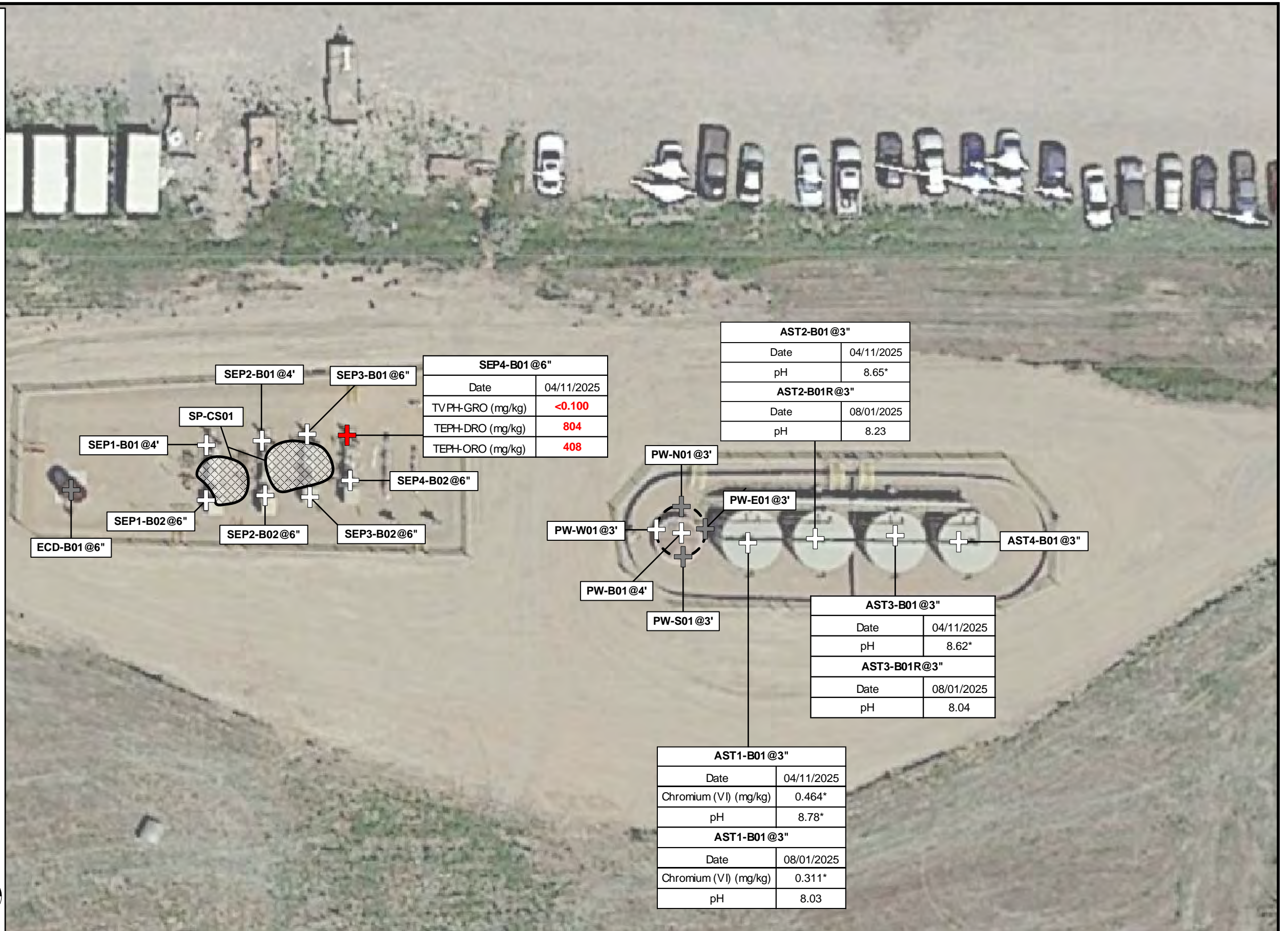
mg/kg = milligrams per kilogram

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations or confirmation/resample result was below the ECMC Table 915-1 standard or within site-specific background concentrations

0 ft. 25 ft. 50 ft.



Image Source: Google Earth



SEP4-B01 @6"	
Date	04/11/2025
TVPH-GRO (mg/kg)	<0.100
TEPH-DRO (mg/kg)	804
TEPH-ORO (mg/kg)	408

AST2-B01 @3"	
Date	04/11/2025
pH	8.65*
AST2-B01R@3"	
Date	08/01/2025
pH	8.23

AST3-B01 @3"	
Date	04/11/2025
pH	8.62*
AST3-B01R@3"	
Date	08/01/2025
pH	8.04

AST1-B01 @3"	
Date	04/11/2025
Chromium (VI) (mg/kg)	0.464*
pH	8.78*
AST1-B01 @3"	
Date	08/01/2025
Chromium (VI) (mg/kg)	0.311*
pH	8.03

DATE:	January 26, 2026
DESIGNED BY:	S. Vogt
DRAWN BY:	A. Martin







Tasman, Inc.
 4725 Independence St.
 Wheat Ridge, CO 80033

Crestone Peak Resources Operating, LLC
 Baker C Unit-61N68W 27SENE
 SENE Sec. 27-T1N-R68W
 Broomfield County, Colorado

Facility Soil Sample
 Location Map
 (04/11/2025 & 08/01/2025)

Figure
 2A

Legend

-  Soil sample location – Field Screened (Collected via Trimble GPS)
-  Soil sample location – Below ECMC Table 915-1 Soil Standards (Collected via Trimble GPS)
-  Groundwater sample location – Below ECMC Table 915-1 Groundwater Standards (Collected via Trimble GPS)
-  Excavation extent

ECMC Table 915-1 Soil Standards	
Chromium (VI) (mg/kg)	0.00067 / 0.3

Notes

Crestone Peak Resources Operating, LLC site infrastructure has been removed.

All locations are approximate unless otherwise noted.

Locations removed via excavation now shown.

GPS = Global Positioning System

ECMC = Colorado Energy & Carbon Management Commission

BOLD = Analytical result is in exceedance of ECMC Table 915-1 Protection of Groundwater Soil Screening Level Concentration

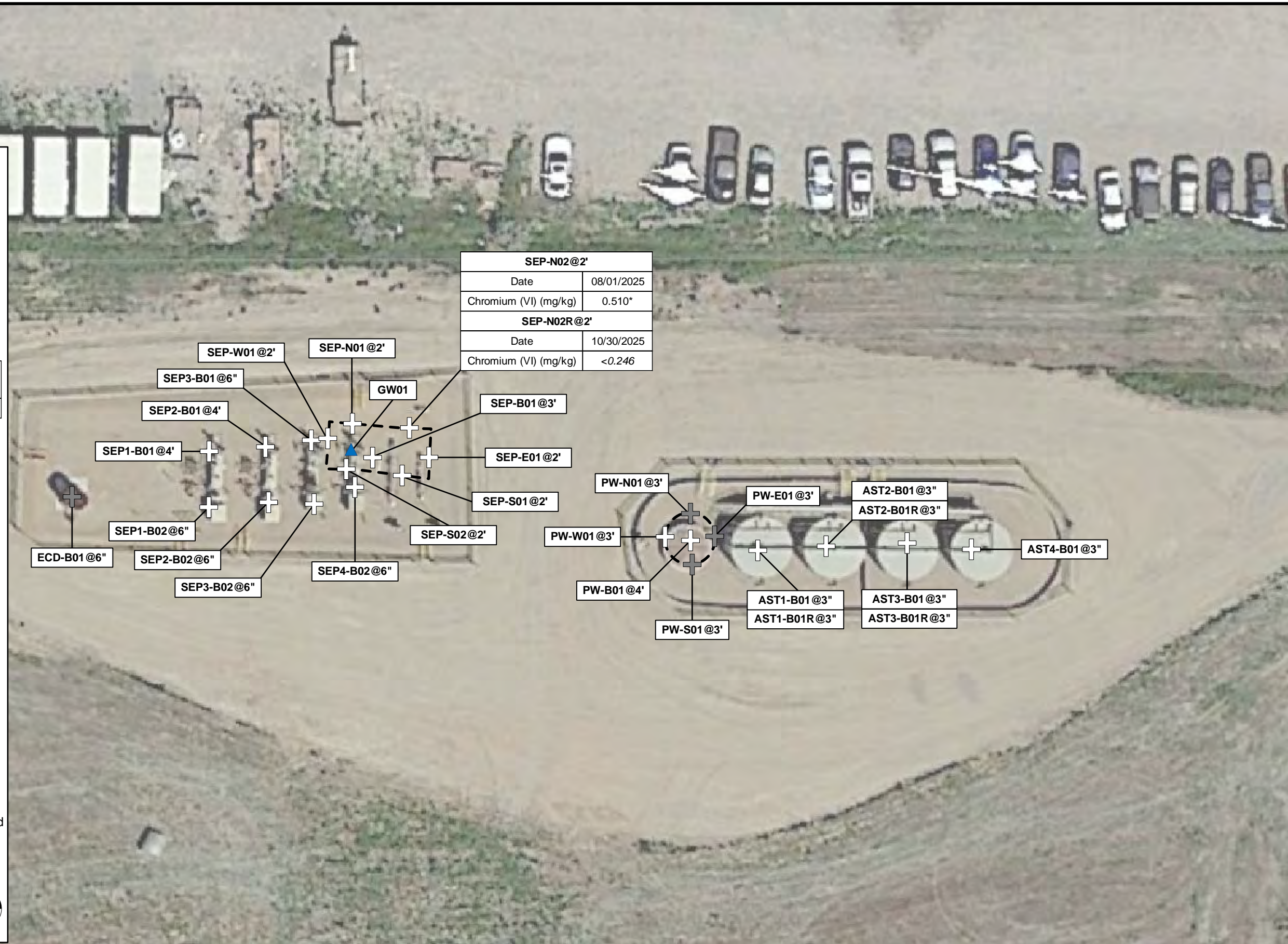
BOLD = Analytical result is in exceedance of ECMC Table 915-1 Residential Soil Screening Level Concentration

Chromium (VI) = hexavalent chromium

mg/kg = milligrams per kilogram

(<) = Analytical result is less than the indicated laboratory minimum detection limit

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations or confirmation/resample result was below the ECMC Table 915-1 standard or within site-specific background concentrations



SEP-N02@2'	
Date	08/01/2025
Chromium (VI) (mg/kg)	0.510*

SEP-N02R@2'	
Date	10/30/2025
Chromium (VI) (mg/kg)	<0.246

DATE:	January 26, 2026
DESIGNED BY:	S. Vogt
DRAWN BY:	A. Martin



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Crestone Peak Resources Operating, LLC
 Baker C Unit- 61N68W 27SENE
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 Broomfield County, Colorado

Facility Soil Sample
 Location Map
 (08/01/2025 & 10/30/2025)

Figure
 2B



Legend

- Background soil sample location (Collected via Trimble GPS)
- ▭ Excavation extent

Notes

Crestone Peak Resources Operating, LLC site infrastructure has been removed.

All locations are approximate unless otherwise noted.

GPS = Global Positioning System

* Sample collected as a part of Stipanovich 41-27 & 8-0-27 site assessment (REM #: 36222)


0 ft. 25 ft. 50 ft. 

Image Source: Google Earth

DATE:	September 30, 2025
DESIGNED BY:	S. Vogt
DRAWN BY:	A. Tullos



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Crestone Peak Resources Operating, LLC
Baker C Unit-61N68W 27SENE
 SENE Sec. 27-T1N-R68W
 Broomfield County, Colorado

Background Soil Sample
 Location Map
 (07/01/2024 & 06/03/2025)

Figure
 3

TABLES

MATERIAL LEFT IN PLACE

TABLE 1
BAKER C UNIT-61N68W 27SENE
SAMPLE LOCATIONS LEFT IN PLACE
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
SEP1-B01@4'	4'	04/11/2025	1.0	40.025651	-104.983994	0.7	Y
SEP2-B01@4'	4'	04/11/2025	1.3	40.025655	-104.983949	0.7	Y
SEP3-B01@6"	6"	04/11/2025	4.9	40.025656	-104.983903	0.7	Y
SEP1-B02@6"	6"	04/11/2025	4.7	40.025618	-104.983993	0.8	Y
SEP2-B02@6"	6"	04/11/2025	1.3	40.025620	-104.983942	0.7	Y
SEP3-B02@6"	6"	04/11/2025	2.2	40.025618	-104.983899	0.7	Y
SEP4-B02@6"	6"	04/11/2025	3.2	40.025626	-104.983862	0.7	Y
PW-B01@4'	4'	04/11/2025	0.4	40.025589	-104.983562	0.9	Y
PW-N01@3'	3'	04/11/2025	0.1	40.025606	-104.983560	0.8	N
PW-S01@3'	3'	04/11/2025	0.1	40.025576	-104.983560	0.8	N
PW-E01@3'	3'	04/11/2025	0.2	40.025592	-104.983545	0.8	N
PW-W01@3'	3'	04/11/2025	0.5	40.025592	-104.983580	0.8	Y
AST1-B01@3"	3"	04/11/2025	0.1	40.025583	-104.983500	0.8	Y
AST2-B01@3"	3"	04/11/2025	0.1	40.025585	-104.983439	0.8	Y
AST3-B01@3"	3"	04/11/2025	0.2	40.025588	-104.983367	0.8	Y
AST4-B01@3"	3"	04/11/2025	0.1	40.025583	-104.983310	0.8	Y
ECD-B01@6"	6"	04/11/2025	3.5	40.025619	-104.984115	0.7	N
SP-CS01	-	04/11/2025	1.5	40.025642	-104.983911	-	Y
SEP-B01@3'	3'	08/01/2025	3.0	40.025646	-104.983846	-	Y
SEP-N01@2'	2'	08/01/2025	1.1	40.025670	-104.983864	0.9	Y
SEP-N02@2'	2'	08/01/2025	1.8	40.025667	-104.983813	0.9	Y
SEP-S01@2'	2'	08/01/2025	4.2	40.025639	-104.983869	-	Y
SEP-S02@2'	2'	08/01/2025	2.8	40.025634	-104.983818	0.9	Y
SEP-E01@2'	2'	08/01/2025	2.6	40.025646	-104.983796	0.9	Y
SEP-W01@2'	2'	08/01/2025	3.1	40.025660	-104.983886	0.9	Y
AST1-B01R@3"	3"	08/01/2025	6.8	40.025583	-104.983499	1	Y
AST2-B01R@3"	3"	08/01/2025	4.4	40.025586	-104.983439	1	Y
AST3-B01R@3"	3"	08/01/2025	5.5	40.025587	-104.983368	0.9	Y
GW01	3'	08/01/2025	-	40.025652	-104.983865	0.9	Y
SEP-N02R@2'	2'	10/30/2025	3.1	40.025667	-104.983815	0.9	Y
BACKGROUND							
BG01@6"	6"	07/01/2024	0.7	40.025764	-104.985126	0.9	Y
BG02@6"	6"	07/01/2024	0.9	40.025761	-104.984829	0.9	Y
BG03@6"	6"	07/01/2024	1.4	40.025543	-104.985386	0.9	Y

TABLE 1
BAKER C UNIT-61N68W 27SENE
SAMPLE LOCATIONS LEFT IN PLACE
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
BG04@6"	6"	07/01/2024	0.9	40.025558	-104.985073	0.8	Y
BG05@6"	6"	07/01/2024	1.1	40.025508	-104.984803	0.8	Y
BG11@4'*	4'	06/03/2025	1.3	40.027657	-104.983664	0.8	Y
BG11@6'*	6'	06/03/2025	0.5	40.027657	-104.983664	0.8	Y
BG11@7'*	7'	06/03/2025	0.8	40.027657	-104.983664	0.8	Y
BG12@4'*	4'	06/03/2025	1.5	40.027581	-104.983779	0.9	Y
BG12@6'*	6'	06/03/2025	1.3	40.027581	-104.983779	0.9	Y
BG12@7'*	7'	06/03/2025	1.2	40.027581	-104.983779	0.9	Y
BG13@4'*	4'	06/03/2025	1.8	40.027444	-104.983788	0.8	Y
BG13@6'*	6'	06/03/2025	1.5	40.027444	-104.983788	0.8	Y
BG13@7'*	7'	06/03/2025	1.5	40.027444	-104.983788	0.8	Y
BG14@4'*	4'	06/03/2025	1.6	40.027361	-104.983794	0.8	Y
BG14@6'*	6'	06/03/2025	1.3	40.027361	-104.983794	0.8	Y
BG14@7'*	7'	06/03/2025	1.0	40.027361	-104.983794	0.8	Y
BG15@4'*	4'	06/03/2025	1.9	40.027188	-104.983816	0.8	Y
BG15@6'*	6'	06/03/2025	1.4	40.027188	-104.983816	0.8	Y
BG15@7'*	7'	06/03/2025	1.3	40.027188	-104.983816	0.8	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

* Background sample collected as a part of Stipanovich 41-27 & 8-0-27 site assessment (REM #: 36222)

- = Not applicable

TABLE 2
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27
SEP1-B01@4'	4'	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	<0.100	9.21	9.33	<0.00500	<0.00500
SEP2-B01@4'	4'	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	<0.100	76.7	63.0	<0.00500	<0.00500
SEP3-B01@6"	6"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	<0.100	77.0	79.2	<0.00500	<0.00500
SEP1-B02@6"	6"	04/11/2025	<0.00100	<0.00500	<0.00250	0.00428	<0.00579	0.0689	87.6	42.7	<0.00500	<0.00500
SEP2-B02@6"	6"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.0322	1.82	5.04	<0.00500	<0.00500
SEP3-B02@6"	6"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.0318	30.7	28.2	<0.00500	<0.00500
SEP4-B02@6"	6"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.0508	5.57	45.7	<0.00500	<0.00500
PW-B01@4'	4'	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.0400	<4.00	<0.274	<0.00500	<0.00500
PW-W01@3'	3'	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.0349	<4.00	0.294	<0.00500	<0.00500
AST1-B01@3"	3"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.0438	<4.00	6.93	<0.00500	<0.00500
AST2-B01@3"	3"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.0452	<4.00	1.43	<0.00500	<0.00500
AST3-B01@3"	3"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.0427	9.24	10.0	<0.00500	<0.00500
AST4-B01@3"	3"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	0.903	<4.00	1.10	<0.00500	<0.00500
SP-CS01	-	04/11/2025	<0.00100	0.00175	<0.00250	<0.00650	<0.00579	<0.0217	2.17	16.9	<0.00500	<0.00500
SEP-B01@3'	3'	08/01/2025	<0.00100	<0.0100	<0.0100	<0.100	<0.00300	<2.50	<4.00	0.562	<0.00500	<0.00500
SEP-N01@2'	2'	08/01/2025	<0.00100	<0.0100	<0.0100	<0.100	<0.00300	<2.50	<4.00	1.49	<0.00500	<0.00500
SEP-N02@2'	2'	08/01/2025	<0.00100	<0.0100	<0.0100	<0.100	<0.00300	<2.50	<4.00	1.41	<0.00500	<0.00500
SEP-S01@2'	2'	08/01/2025	<0.00100	<0.0100	<0.0100	<0.100	<0.00300	<2.50	<4.00	0.885	<0.00500	<0.00500
SEP-S02@2'	2'	08/01/2025	<0.00100	<0.0100	<0.0100	<0.100	<0.00300	<2.50	2.55	3.18	<0.00500	<0.00500
SEP-E01@2'	2'	08/01/2025	<0.00100	<0.0100	<0.0100	<0.100	<0.00300	<2.50	<4.00	<4.00	<0.00500	<0.00500
SEP-W01@2'	2'	08/01/2025	<0.00100	<0.0100	<0.0100	<0.100	<0.00300	<2.50	1.71	<4.00	<0.00500	<0.00500

Notes:

VOCs = Volatile Organic Compounds



TABLE 2
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Soil Screening Level

RSSL = Residential Soil Screening Level

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

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

Italics = Laboratory minimum detection limit exceeds the ECMC Table 915-1 standard

- = Not applicable



TABLE 3
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SEP1-B01@4'	4'	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
SEP2-B01@4'	4'	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
SEP3-B01@6"	6"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
SEP1-B02@6"	6"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
SEP2-B02@6"	6"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
SEP3-B02@6"	6"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
SEP4-B02@6"	6"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
PW-B01@4'	4'	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
PW-W01@3'	3'	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
AST1-B01@3"	3"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
AST2-B01@3"	3"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
AST3-B01@3"	3"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
AST4-B01@3"	3"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
SP-CS01	-	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600
SEP-B01@3'	3'	08/01/2025	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0120	<0.0330
SEP-N01@2'	2'	08/01/2025	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0120	<0.0330
SEP-N02@2'	2'	08/01/2025	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0120	<0.0330
SEP-S01@2'	2'	08/01/2025	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0120	<0.0330
SEP-S02@2'	2'	08/01/2025	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0120	<0.0330
SEP-E01@2'	2'	08/01/2025	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0120	<0.0330
SEP-W01@2'	2'	08/01/2025	<0.0330	<0.0330	<0.00600	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.00300	<0.0120	<0.0330

Notes:

Minimum detection limits (MDLs) are presented for PAHs analyzed by Method 8270, with insufficient Reporting detection limits (RDLs) for ECMC screening levels, associated with samples collected on April 11, 2025 (Pace Analytical - L1847570).

PAHs = Polycyclic Aromatic Hydrocarbons



TABLE 3
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Soil Screening Level

RSSL = Residential Soil Screening Level

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

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenz(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

- = Not applicable



TABLE 4
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	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)	Confirmation/Resample for Sample Location(s) ⁽³⁾
ECMC Metals in Soils - GSSL ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370	-
ECMC Metals in Soils - RSSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000	-
SEP1-B01@4'	4'	04/11/2025	4.01*	159*	0.158	<0.379	11.3	8.23	11.4	0.796*	<0.500	43.1	-
SEP2-B01@4'	4'	04/11/2025	4.49*	141*	0.276	<0.379	11.1	10.7	12.3	0.748*	<0.500	43.0	-
SEP3-B01@6"	6"	04/11/2025	4.56*	168*	0.201	<0.379	11.1	9.81	13.5	0.416*	<0.500	42.5	-
SEP1-B02@6"	6"	04/11/2025	2.10*	61.0	<0.0855	<0.379	6.14	4.74	6.39	0.288*	<0.500	22.1	-
SEP2-B02@6"	6"	04/11/2025	4.96*	134*	0.215	<0.379	12.7	11.0	14.2	0.766*	<0.500	47.5	-
SEP3-B02@6"	6"	04/11/2025	4.32*	158*	0.199	<0.379	11.6	10.8	13.4	0.455*	<0.500	44.2	-
SEP4-B02@6"	6"	04/11/2025	2.43*	97.6*	0.144	<0.379	8.34	6.86	8.71	0.263*	<0.500	30.8	-
PW-B01@4'	4'	04/11/2025	3.40*	74.7	0.104	<0.379	8.92	7.55	8.91	0.467*	<0.500	28.2	-
PW-W01@3'	3'	04/11/2025	2.26*	63.7	0.0987	<0.379	7.90	5.36	8.13	0.478*	<0.500	27.3	-
AST1-B01@3"	3"	04/11/2025	3.35*	51.4	0.179	0.464*	13.1	7.67	11.0	0.452*	<0.500	32.1	-
AST2-B01@3"	3"	04/11/2025	2.28*	55.5	<0.0855	<0.379	8.70	5.38	7.53	0.438*	<0.500	26.9	-
AST3-B01@3"	3"	04/11/2025	1.96*	45.7	<0.0855	<0.379	8.58	4.84	7.45	0.393*	<0.500	24.9	-
AST4-B01@3"	3"	04/11/2025	3.76*	49.8	<0.0855	<0.379	8.52	5.20	7.86	0.416*	<0.500	26.5	-
SP-CS01	-	04/11/2025	4.69*	217*	0.193	<0.379	12.2	10.7	13.3	0.868*	<0.500	47.3	-
SEP-B01@3'	3'	08/01/2025	2.64*	28.7	<0.100	<0.200	<10.0	<10.0	<10.0	0.694*	<0.500	<50.0	-
SEP-N01@2'	2'	08/01/2025	5.09*	253*	0.245	0.376*	11.6	10.5	14.6	1.17*	<0.500	<50.0	-
SEP-N02@2'	2'	08/01/2025	4.71*	215*	0.208	0.510*	10.9	<10.0	14.5	1.23*	<0.500	<50.0	-
SEP-S01@2'	2'	08/01/2025	19.7*	185*	0.599*	<0.200	23.3	16.0*	30.1*	2.22*	<0.500	83.0	-
SEP-S02@2'	2'	08/01/2025	4.89*	186*	0.186	0.420*	10.7	<10.0	13.8	1.06*	<0.500	<50.0	-
SEP-E01@2'	2'	08/01/2025	5.10*	222*	0.221	0.322*	12.1	10.0	16.2	1.19*	<0.500	<50.0	-
SEP-W01@2'	2'	08/01/2025	4.15*	314*	0.206	0.215*	<10.0	<10.0	15.3	0.922*	<0.500	<50.0	-
AST1-B01R@3"	3"	08/01/2025	-	-	-	0.311*	-	-	-	-	-	-	AST1-B01@3"
SEP-N02R@2'	2'	10/30/2025	-	-	-	<0.246	-	-	-	-	-	-	SEP-N02@2'
BACKGROUND													
BG01@6"	6"	07/01/2024	5.93	176	0.411	<0.255	17.7	20.6	19.7	1.90	<0.500	74.2	-
BG02@6"	6"	07/01/2024	5.41	185	0.358	<0.255	16.2	19.1	17.1	1.57	<0.500	63.3	-
BG03@6"	6"	07/01/2024	10.6**	199	0.663	0.256	25.5	21.3	31.1	2.28	<0.500	116**	-

TABLE 4
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	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)	Confirmation/Resample for Sample Location(s) ⁽³⁾
ECMC Metals in Soils - GSSL ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370	-
ECMC Metals in Soils - RSSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000	-
BG04@6"	6"	07/01/2024	6.31	173	0.382	<0.255	16.2	18.3	17.4	1.86	<0.500	62.3	-
BG05@6"	6"	07/01/2024	6.42	173	0.286	0.286	15.8	18.3	18.4	2.10	<0.500	63.1	-
Highest Background @ 6" x1.25 (SW)			8.03	249	0.829	0.358	31.9	26.6	38.9	2.85	-	92.8	-
BG11@4'***	4'	06/03/2025	9.32	274	0.351	<0.200	22.2	17.7	29.7	1.42	<0.500	111	-
BG11@6'***	6'	06/03/2025	6.17	396	0.272	<0.200	16.2	14.8	17.9	0.772	<0.500	64.2	-
BG11@7'*	7'	06/03/2025	7.35	569	0.277	0.212	17.2	14.8	20.5	0.977	<0.500	72.5	-
BG12@4'***	4'	06/03/2025	10.3	332	0.374	<0.200	21.3	16.4	21.6	1.43	<0.500	73.4	-
BG12@6'***	6'	06/03/2025	6.25	255	0.287	1.20**	15.4	15.9	28.7	0.886	<0.500	70.4	-
BG12@7'***	7'	06/03/2025	6.51	281	0.281	<0.200	17.1	14.7	18.6	0.810	<0.500	65.3	-
BG13@4'***	4'	06/03/2025	6.18	354	0.312	<0.200	17.5	14.4	20.7	0.701	<0.500	67.2	-
BG13@6'***	6'	06/03/2025	15.2	308	0.423	<0.200	25.5	17.0	20.8	2.07	<0.500	71.7	-
BG13@7'***	7'	06/03/2025	6.76	508	0.325	0.372	18.0	13.5	20.4	1.06	<0.500	64.1	-
BG14@4'***	4'	06/03/2025	10.8	628	0.444	<0.200	21.0	14.5	16.5	1.93	<0.500	51.9	-
BG14@6'***	6'	06/03/2025	6.13	238	0.299	<0.200	17.6	15.6	21.9	1.15	<0.500	73.6	-
BG14@7'***	7'	06/03/2025	5.68	151	0.256	0.234	14.8	14.5	21.5	0.824	<0.500	62.8	-
BG15@4'***	4'	06/03/2025	17.5	216	0.670	0.229	33.9	18.8	29.6	1.98	<0.500	80.5	-
BG15@6'***	6'	06/03/2025	5.70	280	0.260	<0.200	15.7	14.4	18.6	0.931	<0.500	68.3	-
BG15@7'***	7'	06/03/2025	13.4	386	0.629	<0.200	24.9	23.5	29.7	1.97	<0.500	95.4	-
Highest Background @ 4' - 7' x1.25 (SC)			21.9	785	0.838	0.465	42.4	29.4	37.1	2.59	-	139	-

Notes:

Minimum detection limits (MDLs) are presented for metals analyzed by Method 6020, with insufficient Reporting detection limits (RDLs) for ECMC screening levels, associated with samples collected on April 11, 2025 (Pace Analytical - L1847570).

(1) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

(3) List sample location that exceeded ECMC Table 915-1 Standards that the confirmation/resample sample represents. Sample location resampled to confirm heterogeneous lithology or lab variability.

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Soil Screening Level

RSSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

SW = Well Graded Sand

TABLE 4
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	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)	Confirmation/Resample for Sample Location(s) ⁽³⁾
ECMC Metals in Soils - GSSL ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370	-
ECMC Metals in Soils - RSSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000	-

SC = Clayey Sand

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

Highest background concentration x1.25

Italics = Laboratory minimum detection limit exceeds the ECMC Table 915-1 Standard

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations or confirmation/resample result was below the ECMC Table 915-1 standard or within site-specific background

** Background sample collected as a part of Stipanovich 41-27 & 8-0-27 site assessment (REM #: 36222)

- = Not applicable or constituent not analyzed

TABLE 5
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)	Confirmation/Resample for Sample Location(s) ⁽²⁾
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2	-
SEP1-B01@4'	4'	04/11/2025	7.85	0.566	3.13	0.849	-
SEP2-B01@4'	4'	04/11/2025	8.00	0.131	0.790	0.695	-
SEP3-B01@6"	6"	04/11/2025	8.19	0.255	0.303	0.745	-
SEP1-B02@6"	6"	04/11/2025	7.87	0.222	1.47	0.567	-
SEP2-B02@6"	6"	04/11/2025	8.11	0.349	0.381	0.681	-
SEP3-B02@6"	6"	04/11/2025	7.83	0.0452	1.69	0.743	-
SEP4-B02@6"	6"	04/11/2025	8.27	0.103	0.174	0.152	-
PW-B01@4'	4'	04/11/2025	8.46*	0.0449	0.129	0.121	-
PW-W01@3'	3'	04/11/2025	8.21	0.0841	0.202	0.124	-
AST1-B01@3"	3"	04/11/2025	8.78*	0.398	0.135	0.136	-
AST2-B01@3"	3"	04/11/2025	8.65*	0.274	0.154	0.143	-
AST3-B01@3"	3"	04/11/2025	8.62*	0.156	0.138	0.128	-
AST4-B01@3"	3"	04/11/2025	8.27	0.551	0.479	0.155	-
SP-CS01	-	04/11/2025	7.80	0.233	1.59	0.846	-
SEP-B01@3'	3'	08/01/2025	7.87	2.91	3.38	0.097	-
SEP-N01@2'	2'	08/01/2025	7.88	0.957	0.507	0.102	-
SEP-N02@2'	2'	08/01/2025	7.86	0.976	0.531	0.0658	-
SEP-S01@2'	2'	08/01/2025	7.79	1.28	1.46	0.0809	-
SEP-S02@2'	2'	08/01/2025	7.72	0.705	1.52	0.0702	-
SEP-E01@2'	2'	08/01/2025	7.59	1.49	3.40	0.0808	-
SEP-W01@2'	2'	08/01/2025	7.91	1.18	1.36	0.167	-
AST1-B01R@3"	3"	08/01/2025	8.03	-	-	-	AST1-B01@3"
AST2-B01R@3"	3"	08/01/2025	8.23	-	-	-	AST2-B01@3"
AST3-B01R@3"	3"	08/01/2025	8.04	-	-	-	AST3-B01@3"
BACKGROUND							
BG01@6"	6"	07/01/2024	7.51	0.564	0.501	0.957	-
BG02@6"	6"	07/01/2024	7.74	0.271	0.459	0.750	-
BG03@6"	6"	07/01/2024	7.77	1.91	1.10	2.29	-
BG04@6"	6"	07/01/2024	7.89	1.84	1.16	1.30	-
BG05@6"	6"	07/01/2024	7.95	0.729	0.451	1.27	-
Highest Background @ 6" (SW)			7.95	1.91	1.16	2.29	-
BG11@4'***	4'	06/03/2025	8.59	22.9	3.50	0.810	-
BG11@6'***	6'	06/03/2025	8.94	30.4	3.85	0.812	-
BG11@7'***	7'	06/03/2025	8.49	13.6	1.90	0.639	-
BG12@4'***	4'	06/03/2025	8.55	30.4	4.13	1.01	-
BG12@6'***	6'	06/03/2025	8.68	28.0	3.53	0.918	-
BG12@7'***	7'	06/03/2025	8.15	15.1	8.35	1.30	-

TABLE 5
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA LEFT IN PLACE - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)	Confirmation/Resample for Sample Location(s) ⁽²⁾
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2	-
BG13@4'**	4'	06/03/2025	7.74	3.71	3.57	1.39	-
BG13@6'**	6'	06/03/2025	8.83	31.0	3.70	0.755	-
BG13@7'**	7'	06/03/2025	8.52	22.4	3.32	0.774	-
BG14@4'**	4'	06/03/2025	8.14	18.3	9.35	1.25	-
BG14@6'**	6'	06/03/2025	8.22	22.0	4.25	0.890	-
BG14@7'**	7'	06/03/2025	8.07	13.7	7.46	1.33	-
BG15@4'**	4'	06/03/2025	8.53	28.2	3.80	1.06	-
BG15@6'**	6'	06/03/2025	8.02	16.5	5.26	0.914	-
BG15@7'**	7'	06/03/2025	8.11	20.4	6.41	0.829	-
Highest Background @ 4' - 7' (SC)			8.94	31.0	9.35	1.39	-

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

(2) List sample location that exceeded ECMC Table 915-1 Standards that the confirmation/resample sample represents. Sample location resampled to confirm heterogeneous lithology or lab variability.

ECMC = Colorado Energy & Carbon Management Commission

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

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

SW = Well Graded Sand

SC = Clayey Sand

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Soil Suitability for Reclamation Concentrations

Highest background concentration

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations or confirmation/resample result was below the ECMC Table 915-1 standard or within site-specific background concentrations

** Background sample collected as a part of Stipanovich 41-27 & 8-0-27 site assessment (REM #: 36222)

- = Not applicable or constituent not analyzed

TABLE 6
BAKER C UNIT-61N68W 27SENE
GROUNDWATER ANALYTICAL DATA
CRESTONE PEAK RESOURCES OPERATING, LLC



Groundwater Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ehtylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)
ECMC Organic Compounds in Groundwater and Groundwater Inorganic Parameters⁽¹⁾		5	560	700	1,400	140	67	67	250 or <1.25 x Background	250 or <1.25 x Background	<1.25 x Background
GW01	08/01/2025	<2.00	<2.00	<2.00	<6.00	<10.0	<4.00	<2.00	150	2,560	3,260

Notes:

(1) Standards for groundwater are taken from ECMC Table 915-1: Organic Compounds in Groundwater and Groundwater Inorganic Parameters (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

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

mg/L = micrograms per liter

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

TDS = Total Dissolved Solids

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Groundwater and Groundwater Inorganic Parameters

TABLES

IMPACTED MATERIAL REMOVED

TABLE 1
BAKER C UNIT-61N68W 27SENE
SOIL SAMPLE LOCATIONS REMOVED
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
SEP4-B01@6"	6"	04/11/2025	4.9	40.025660	-104.983867	0.8	Y
BACKGROUND							
BG01@6"	6"	07/01/2024	0.7	40.025764	-104.985126	0.9	Y
BG02@6"	6"	07/01/2024	0.9	40.025761	-104.984829	0.9	Y
BG03@6"	6"	07/01/2024	1.4	40.025543	-104.985386	0.9	Y
BG04@6"	6"	07/01/2024	0.9	40.025558	-104.985073	0.8	Y
BG05@6"	6"	07/01/2024	1.1	40.025508	-104.984803	0.8	Y
BG11@4'*	4'	06/03/2025	1.3	40.027657	-104.983664	0.8	Y
BG11@6'*	6'	06/03/2025	0.5	40.027657	-104.983664	0.8	Y
BG11@7'*	7'	06/03/2025	0.8	40.027657	-104.983664	0.8	Y
BG12@4'*	4'	06/03/2025	1.5	40.027581	-104.983779	0.9	Y
BG12@6'*	6'	06/03/2025	1.3	40.027581	-104.983779	0.9	Y
BG12@7'*	7'	06/03/2025	1.2	40.027581	-104.983779	0.9	Y
BG13@4'*	4'	06/03/2025	1.8	40.027444	-104.983788	0.8	Y
BG13@6'*	6'	06/03/2025	1.5	40.027444	-104.983788	0.8	Y
BG13@7'*	7'	06/03/2025	1.5	40.027444	-104.983788	0.8	Y
BG14@4'*	4'	06/03/2025	1.6	40.027361	-104.983794	0.8	Y
BG14@6'*	6'	06/03/2025	1.3	40.027361	-104.983794	0.8	Y
BG14@7'*	7'	06/03/2025	1.0	40.027361	-104.983794	0.8	Y
BG15@4'*	4'	06/03/2025	1.9	40.027188	-104.983816	0.8	Y
BG15@6'*	6'	06/03/2025	1.4	40.027188	-104.983816	0.8	Y
BG15@7'*	7'	06/03/2025	1.3	40.027188	-104.983816	0.8	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

* Background sample collected as a part of Stipanovich 41-27 & 8-0-27 site assessment (REM #: 36222)



TABLE 2
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA REMOVED - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27
SEP4-B01@6"	6"	04/11/2025	<0.00100	<0.00500	<0.00250	<0.00650	<0.00579	<0.100	804	408	<0.00500	<0.00500

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Soil Screening Level

RSSL = Residential Soil Screening Level

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

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

Italics = Laboratory minimum detection limit exceeds the ECMC Table 915-1 standard



TABLE 3
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA REMOVED - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SEP4-B01@6"	6"	04/11/2025	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00219	<0.00571	<0.00600

Notes:

Minimum detection limits (MDLs) are presented for PAHs analyzed by Method 8270, with insufficient Reporting detection limits (RDLs) for ECMC screening levels, associated with samples collected on April 11, 2025 (Pace Analytical - L1847570).

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Soil Screening Level

RSSL = Residential Soil Screening Level

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

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenz(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

TABLE 4
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA REMOVED - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	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 Metals in Soils - GSSL ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SEP4-B01@6"	6"	04/11/2025	2.60*	73.4	0.115	<0.379	8.55	7.17	8.30	0.552*	<0.500	30.9
BACKGROUND												
BG01@6"	6"	07/01/2024	5.93	176	0.411	<0.255	17.7	20.6	19.7	1.90	<0.500	74.2
BG02@6"	6"	07/01/2024	5.41	185	0.358	<0.255	16.2	19.1	17.1	1.57	<0.500	63.3
BG03@6"	6"	07/01/2024	10.6**	199	0.663	0.256	25.5	21.3	31.1	2.28	<0.500	116**
BG04@6"	6"	07/01/2024	6.31	173	0.382	<0.255	16.2	18.3	17.4	1.86	<0.500	62.3
BG05@6"	6"	07/01/2024	6.42	173	0.286	0.286	15.8	18.3	18.4	2.10	<0.500	63.1
Highest Background @ 6" x1.25 (SW)			8.03	249	0.829	0.358	31.9	26.6	38.9	2.85	-	92.8
BG11@4'***	4'	06/03/2025	9.32	274	0.351	<0.200	22.2	17.7	29.7	1.42	<0.500	111
BG11@6'***	6'	06/03/2025	6.17	396	0.272	<0.200	16.2	14.8	17.9	0.772	<0.500	64.2
BG11@7'*	7'	06/03/2025	7.35	569	0.277	0.212	17.2	14.8	20.5	0.977	<0.500	72.5
BG12@4'***	4'	06/03/2025	10.3	332	0.374	<0.200	21.3	16.4	21.6	1.43	<0.500	73.4
BG12@6'***	6'	06/03/2025	6.25	255	0.287	1.20**	15.4	15.9	28.7	0.886	<0.500	70.4
BG12@7'***	7'	06/03/2025	6.51	281	0.281	<0.200	17.1	14.7	18.6	0.810	<0.500	65.3
BG13@4'***	4'	06/03/2025	6.18	354	0.312	<0.200	17.5	14.4	20.7	0.701	<0.500	67.2
BG13@6'***	6'	06/03/2025	15.2	308	0.423	<0.200	25.5	17.0	20.8	2.07	<0.500	71.7
BG13@7'***	7'	06/03/2025	6.76	508	0.325	0.372	18.0	13.5	20.4	1.06	<0.500	64.1
BG14@4'***	4'	06/03/2025	10.8	628	0.444	<0.200	21.0	14.5	16.5	1.93	<0.500	51.9
BG14@6'***	6'	06/03/2025	6.13	238	0.299	<0.200	17.6	15.6	21.9	1.15	<0.500	73.6
BG14@7'***	7'	06/03/2025	5.68	151	0.256	0.234	14.8	14.5	21.5	0.824	<0.500	62.8
BG15@4'***	4'	06/03/2025	17.5	216	0.670	0.229	33.9	18.8	29.6	1.98	<0.500	80.5
BG15@6'***	6'	06/03/2025	5.70	280	0.260	<0.200	15.7	14.4	18.6	0.931	<0.500	68.3



TABLE 4
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA REMOVED - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	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 Metals in Soils - GSSL ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
BG15@7'***	7'	06/03/2025	13.4	386	0.629	<0.200	24.9	23.5	29.7	1.97	<0.500	95.4
Highest Background @ 4' - 7' x1.25 (SC)			21.9	785	0.838	0.465	42.4	29.4	37.1	2.59	-	139

Notes:

Analytical - L1847570).

(1) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

(3) List sample location that exceeded ECMC Table 915-1 Standards that the confirmation/resample sample represents. Sample location resampled to confirm heterogeneous lithology or lab variability.

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Soil Screening Level

RSSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

SW = Well Graded Sand

SC = Clayey Sand

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

Highest background concentration x1.25

Italics = Laboratory minimum detection limit exceeds the ECMC Table 915-1 Standard

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations or confirmation/resample result was below the ECMC Table 915-1 standard or within site-specific background

** Background sample collected as a part of Stipanovich 41-27 & 8-0-27 site assessment (REM #: 36222)

- = Not applicable

TABLE 5
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA REMOVED - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
SEP4-B01@6"	6"	04/11/2025	8.08	0.235	0.566	0.464
BACKGROUND						
BG01@6"	6"	07/01/2024	7.51	0.564	0.501	0.957
BG02@6"	6"	07/01/2024	7.74	0.271	0.459	0.750
BG03@6"	6"	07/01/2024	7.77	1.91	1.10	2.29
BG04@6"	6"	07/01/2024	7.89	1.84	1.16	1.30
BG05@6"	6"	07/01/2024	7.95	0.729	0.451	1.27
Highest Background @ 6" (SW)			7.95	1.91	1.16	2.29
BG11@4'***	4'	06/03/2025	8.59	22.9	3.50	0.810
BG11@6'***	6'	06/03/2025	8.94	30.4	3.85	0.812
BG11@7'***	7'	06/03/2025	8.49	13.6	1.90	0.639
BG12@4'***	4'	06/03/2025	8.55	30.4	4.13	1.01
BG12@6'***	6'	06/03/2025	8.68	28.0	3.53	0.918
BG12@7'***	7'	06/03/2025	8.15	15.1	8.35	1.30
BG13@4'***	4'	06/03/2025	7.74	3.71	3.57	1.39
BG13@6'***	6'	06/03/2025	8.83	31.0	3.70	0.755
BG13@7'***	7'	06/03/2025	8.52	22.4	3.32	0.774
BG14@4'***	4'	06/03/2025	8.14	18.3	9.35	1.25
BG14@6'***	6'	06/03/2025	8.22	22.0	4.25	0.890
BG14@7'***	7'	06/03/2025	8.07	13.7	7.46	1.33
BG15@4'***	4'	06/03/2025	8.53	28.2	3.80	1.06
BG15@6'***	6'	06/03/2025	8.02	16.5	5.26	0.914
BG15@7'***	7'	06/03/2025	8.11	20.4	6.41	0.829
Highest Background @ 4' - 7' (SC)			8.94	31.0	9.35	1.39

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

(2) List sample location that exceeded ECMC Table 915-1 Standards that the confirmation/resample sample represents. Sample location resampled due to heterogeneous lithology or lab variability.

ECMC = Colorado Energy & Carbon Management Commission

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

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

TABLE 5
BAKER C UNIT-61N68W 27SENE
SOIL ANALYTICAL DATA REMOVED - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

SW = Well Graded Sand

SC = Clayey Sand

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Soil Suitability for Reclamation Concentrations

Highest background concentration

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations or confirmation/resample result within ECMC Table 915-1 standard or within site-specific background concentrations

** Background sample collected as a part of Stipanovich 41-27 & 8-0-27 site assessment (REM #: 36222)

ATTACHMENT A
EXCAVATION FIELD NOTES AND PHOTO LOG



Civitas Decommissioning Form

SITE NAME: BAKER C UNIT-61N68W 27SENE								DATE: 4/11/2025	REM. PROJECT #: 38381	WEATHER: 75* F, Sunny
SITE DIRECTIONS: 10th St & W I-25 Frontage Rd, S 0.25 miles, W INTO								CLIENT: Crestone Peak Resources Operating, LLC		
LEGALS AND LAT/LONG: 40.025593, -104.983745								TASMAN PERSONNEL: Dan Tyson, Grayson Turner, Lennon Bakel		
SOIL TYPES: SC - clayey sand								SURFACE GRADIENT: North		
SURROUNDING LAND USE: Other								CROP: N/A		
SOIL SAMPLING								FACILITY INFRASTRUCTURE		
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo? (Y/N)	USCS	Lab (Y/N)	EQUIPMENT	Quantity	
								Above Ground Storage Tank (AST)	4	
4/11/2025 12:38	SEP1-B01@4'	1.0	No Staining	No Odor	Y	SC	Y	Produced Water Vessel (PWV)	1	
4/11/2025 12:40	SEP2-B01@4'	1.3	No Staining	No Odor	Y	SC	Y	Separator (SEP)	4	
4/11/2025 12:42	SEP3-B01@6"	4.9	No Staining	No Odor	Y	SP	Y	Emission Control Device (ECD)	1	
4/11/2025 12:44	SEP4-B01@6"	4.9	No Staining	No Odor	Y	SP	Y	Dump Line (DL)		
4/11/2025 12:46	SEP1-B02@6"	4.7	No Staining	No Odor	Y	SP	Y	Wellhead (WH)		
4/11/2025 12:48	SEP2-B02@6"	1.3	No Staining	No Odor	Y	SP	Y	Flowline (FL)		
4/11/2025 12:50	SEP3-B02@6"	2.2	No Staining	No Odor	Y	SP	Y	FL Method of Closure		
4/11/2025 12:52	SEP4-B02@6"	3.2	No Staining	No Odor	Y	SP	Y	FL Footage Removed		
4/11/2025 12:54	PW-B01@4'	0.4	No Staining	No Odor	Y	SC	Y	Footaged Abandoned in Place		
4/11/2025 12:56	PW-N01@3'	0.1	No Staining	No Odor	Y	SC	N	Other:		
4/11/2025 12:58	PW-S01@3'	0.1	No Staining	No Odor	Y	SC	N	Soil Loads Removed		
4/11/2025 13:00	PW-E01@3'	0.2	No Staining	No Odor	Y	SC	N	IMPACTED SOIL IDENTIFIED? Yes		
4/11/2025 13:02	PW-W01@3'	0.5	No Staining	No Odor	Y	SC	Y	ESTIMATED VOLUME OF IMPACTS: See Below		
4/11/2025 13:04	AST1-B01@3"	0.1	No Staining	No Odor	Y	SW	Y	Date	Number	CY
4/11/2025 13:06	AST2-B01@3"	0.1	No Staining	No Odor	Y	SW	Y	August 2025	1	32
4/11/2025 13:08	AST3-B01@3"	0.2	No Staining	No Odor	Y	SW	Y			
4/11/2025 13:10	AST4-B01@3"	0.1	No Staining	No Odor	Y	SW	Y			
4/11/2025 13:12	ECD-B01@6"	3.5	No Staining	No Odor	Y	SP	N			
4/11/2025 13:14	SP-CS01	1.5	No Staining	No Odor	Y	SC	Y	Total Removed	1	32
8/1/2025 09:00	SEP-B01@3'	3.0	No Staining	No Odor	Y	SC	Y	Disposal Facility: Front Range Landfill		
8/1/2025 09:05	SEP-N01@2'	1.1	No Staining	No Odor	Y	SC	Y	Groundwater Recovery		
8/1/2025 09:10	SEP-N02@2'	1.8	No Staining	No Odor	Y	SC	Y	DATE GW ENCOUNTERED: 08/01/2025	DEPTH: 3'	
8/1/2025 09:15	SEP-S01@2'	4.2	No Staining	No Odor	Y	SC	Y	GROUNDWATER IN CONTACT WITH IMPACTED SOIL?		
8/1/2025 09:20	SEP-S02@2'	2.8	No Staining	No Odor	Y	SC	Y			
8/1/2025 09:25	SEP-E01@2'	2.6	No Staining	No Odor	Y	SC	Y	LNAPL OR SHEEN OBSERVED ON GW? No		
GROUNDWATER SAMPLING								Date	BBLs	
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?				
8/1/2025 10:00	GW01	3'	Medium Turbidity	None	None	Yes				
								Total Removed	0	
								Disposal Facility:		



Photographic Log

Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Soil sampling location			Notes/Conditions: Soil sampling location		



Photographic Log

<p>☉ 178°S (T) ● 40°1'32"N, 104°59'2"W ±16ft ▲ 5201ft</p>			<p>☉ 280°W (T) ● 40°1'32"N, 104°59'1"W ±16ft ▲ 5203ft</p>		
<p>Equipment ID:</p>			<p>Equipment ID:</p>		
<p>Equipment Type:</p>			<p>Equipment Type:</p>		
<p>Material:</p>	<p>Volume:</p>	<p>Contents:</p>	<p>Material:</p>	<p>Volume:</p>	<p>Contents:</p>
<p>Notes/Conditions: Soil sampling locations</p>			<p>Notes/Conditions: Soil sampling locations</p>		



Photographic Log

<p>Equipment ID:</p>			<p>Equipment ID:</p>		
<p>Equipment Type:</p>			<p>Equipment Type:</p>		
<p>Material:</p>		<p>Volume:</p>	<p>Contents:</p>		<p>Material:</p>
<p>Material:</p>		<p>Volume:</p>	<p>Contents:</p>		<p>Material:</p>
<p>Notes/Conditions: Soil sampling location</p>			<p>Notes/Conditions: Soil screening location</p>		



Photographic Log

<p>☉ 2°N (T) ☉ 40°1'32"N, 104°59'0"W ±16ft ▲ 5203ft</p>			<p>☉ 86°E (T) ☉ 40°1'32"N, 104°59'0"W ±16ft ▲ 5205ft</p>		
<p>Equipment ID:</p>			<p>Equipment ID:</p>		
<p>Equipment Type:</p>			<p>Equipment Type:</p>		
<p>Material:</p>	<p>Volume:</p>	<p>Contents:</p>	<p>Material:</p>	<p>Volume:</p>	<p>Contents:</p>
<p>Notes/Conditions: Soil sampling locations and screening locations</p>			<p>Notes/Conditions: Soil sampling locations</p>		



Photographic Log

<p>☉ 105°E (T) ● 40°1'32"N, 104°59'0"W ±16ft ▲ 5206ft</p>	<p>☉ 27°NE (T) ● 40°1'32"N, 104°59'2"W ±16ft ▲ 5198ft</p>				
<p style="text-align: right;">11 Apr 2025 12:58:41</p>	<p style="text-align: right;">01 Aug 2025 09:37:21</p>				
<p>Equipment ID:</p>	<p>Equipment Type:</p>	<p>Equipment ID:</p>	<p>Equipment Type:</p>		
<p>Material:</p>	<p>Volume:</p>	<p>Contents:</p>	<p>Material:</p>	<p>Volume:</p>	<p>Contents:</p>
<p>Notes/Conditions: Soil sampling locations</p>			<p>Notes/Conditions: Soil and groundwater sampling location</p>		



Photographic Log

Equipment ID:			Equipment Type:		
Material:		Volume:	Contents:		Material:
Notes/Conditions: Soil and groundwater sampling locations			Notes/Conditions: Soil resampling locations		



Photographic Log

Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:		Volume:		Material:		Volume:	
Contents:				Contents:			
Notes/Conditions: Soil resample location				Notes/Conditions:			

**ATTACHMENT B
USDA SOIL REPORT**



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Weld County, Colorado, Southern Part



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

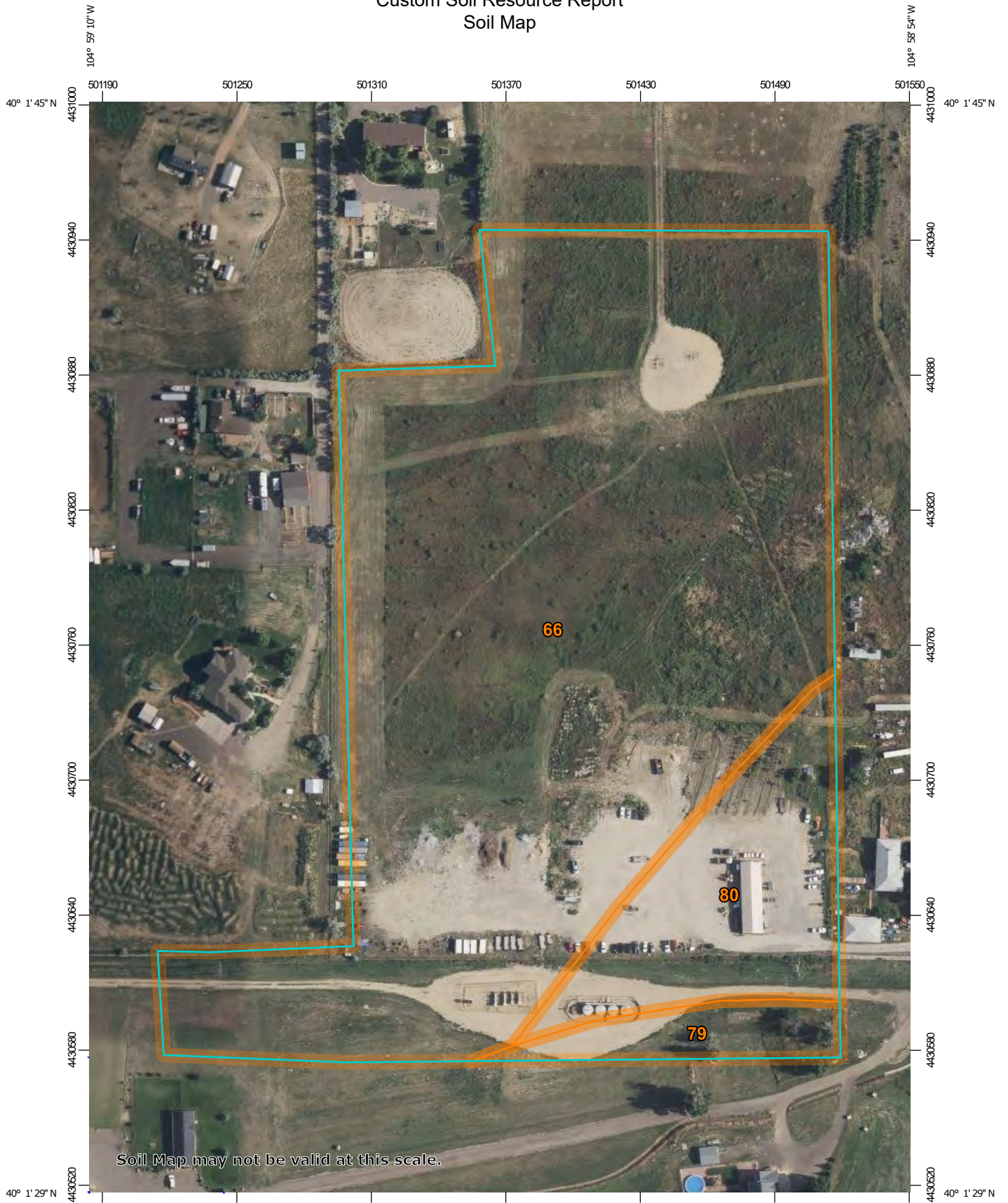
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

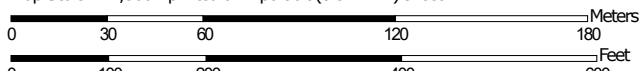
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map




Map Scale: 1:2,360 if printed on A portrait (8.5" x 11") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Weld County, Colorado, Southern Part
 Survey Area Data: Version 23, Aug 29, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 2, 2021—Sep 1, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
66	Ulm clay loam, 0 to 3 percent slopes	16.5	82.8%
79	Weld loam, 1 to 3 percent slopes	0.8	3.8%
80	Weld loam, 3 to 5 percent slopes	2.7	13.4%
Totals for Area of Interest		20.0	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

Custom Soil Resource Report

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Weld County, Colorado, Southern Part

66—Ulm clay loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 363j
Elevation: 5,070 to 5,200 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 105 to 120 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Ulm and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ulm

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits derived from shale

Typical profile

H1 - 0 to 5 inches: clay loam
H2 - 5 to 19 inches: clay
H3 - 19 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 10.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: R067BY042CO - Clayey Plains
Hydric soil rating: No

Minor Components

Renohill

Percent of map unit: 10 percent
Hydric soil rating: No

Heldt

Percent of map unit: 5 percent
Hydric soil rating: No

79—Weld loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2x0hw
Elevation: 3,600 to 5,750 feet
Mean annual precipitation: 12 to 17 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 115 to 155 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Weld and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Weld

Setting

Landform: Interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loess

Typical profile

Ap - 0 to 8 inches: loam
Bt1 - 8 to 12 inches: clay
Bt2 - 12 to 15 inches: clay loam
Btk - 15 to 28 inches: loam
Bk - 28 to 60 inches: silt loam
C - 60 to 80 inches: silt loam

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 14 percent
Maximum salinity: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0

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Available water supply, 0 to 60 inches: High (about 11.3 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 3c

Hydrologic Soil Group: C

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

Minor Components

Adena

Percent of map unit: 8 percent

Landform: Interfluves

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

Colby

Percent of map unit: 7 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

Keith

Percent of map unit: 3 percent

Landform: Interfluves

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

Baca

Percent of map unit: 2 percent

Landform: Interfluves

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

80—Weld loam, 3 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2x0j0

Elevation: 3,600 to 5,700 feet

Mean annual precipitation: 12 to 17 inches

Mean annual air temperature: 46 to 53 degrees F

Frost-free period: 115 to 155 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Weld and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Weld

Setting

Landform: Interfluves, low hills

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loess

Typical profile

Ap - 0 to 8 inches: loam

Bt1 - 8 to 12 inches: clay

Bt2 - 12 to 15 inches: clay loam

Btk - 15 to 28 inches: loam

Bk - 28 to 60 inches: silt loam

C - 60 to 80 inches: silt loam

Properties and qualities

Slope: 3 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 14 percent

Maximum salinity: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 5.0

Available water supply, 0 to 60 inches: High (about 11.3 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Custom Soil Resource Report

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: R067BY002CO - Loamy Plains
Hydric soil rating: No

Minor Components

Baca

Percent of map unit: 5 percent
Landform: Interfluves
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Ecological site: R067BY002CO - Loamy Plains
Hydric soil rating: No

Wiley

Percent of map unit: 5 percent
Landform: Low hills, interfluves
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R067BY002CO - Loamy Plains
Hydric soil rating: No

Colby

Percent of map unit: 5 percent
Landform: Low hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R067BY002CO - Loamy Plains
Hydric soil rating: No

Adena

Percent of map unit: 5 percent
Landform: Low hills
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R067BY002CO - Loamy Plains
Hydric soil rating: No

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