

Bury Crandell 61N68W/NENE/C Unit #1 Pad

NENE Sec. 23-T1N-R68W

Facility ID: 321535

Spill/Release Point ID: 487387

Excavation Summary Report and No Further Action Request

July & September 2024

Prepared by Tasman, Inc.



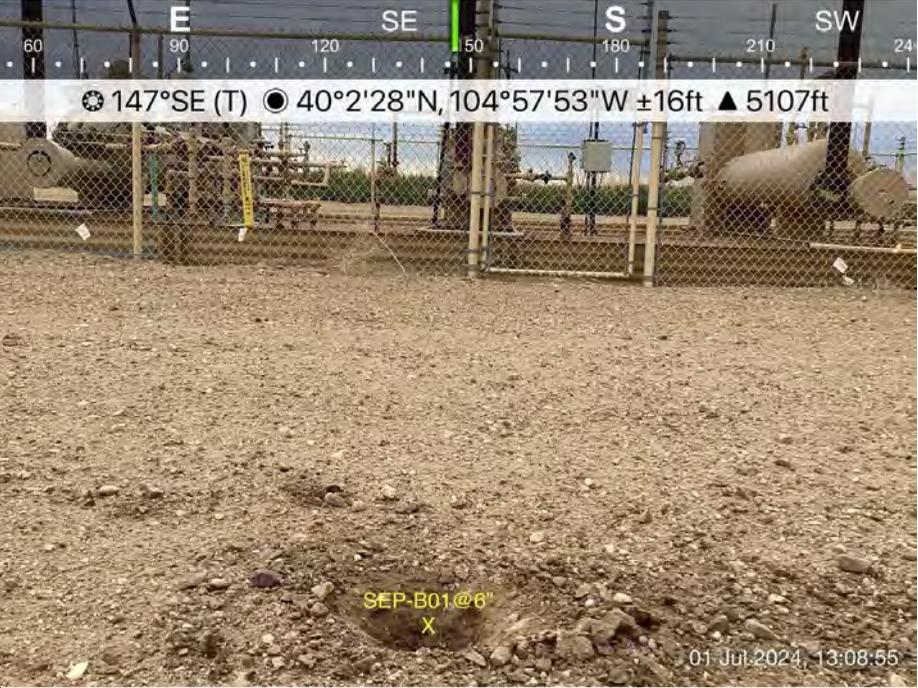
On behalf of Crestone Peak Resources Operating, LLC



FIELD NOTES AND PHOTO LOG

Civitas Decommissioning Form

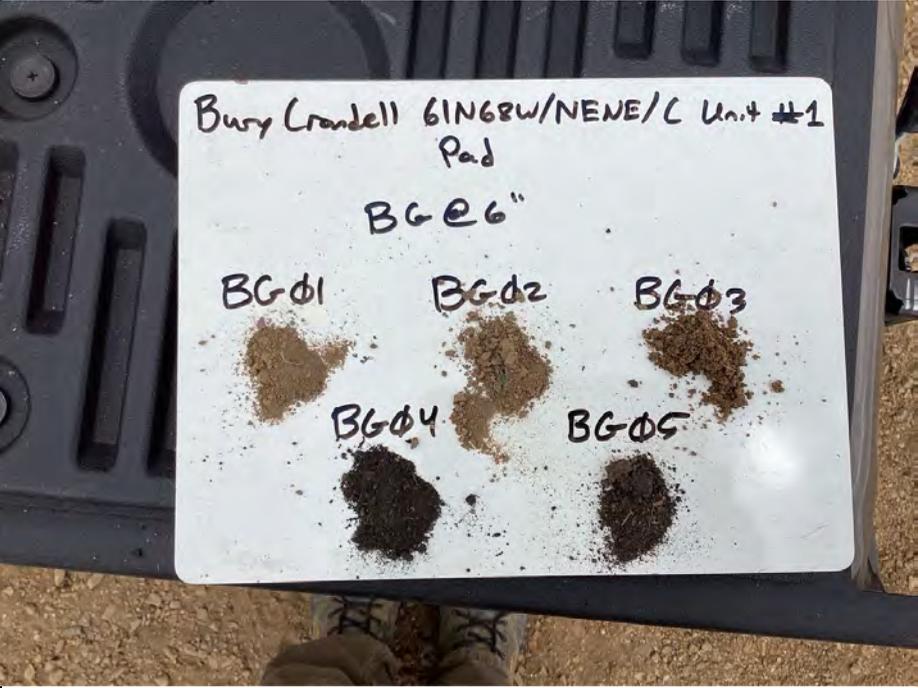
SITE NAME: Bury Crandell 61N68W/NENE/C Unit #1 Pad								DATE: 7/1/2024	REM. PROJECT #:	WEATHER: Cloudy, 85(F)
SITE DIRECTIONS: CR 8 & CR 11 S 0.25 mi, NW 0.15 mi INTO`								CLIENT: Crestone Peak Resources Operating, LLC		
LEGALS AND LAT/LONG: 40.041350, -104.964760								TASMAN PERSONNEL: Sean Clarke		
SOIL TYPES: ML - Silt								SURFACE GRADIENT: Northwest		
SURROUNDING LAND USE: Rangeland								CROP:		
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)	1	
7/1/2024 13:30	WH-B01@6"	1.0	No Staining	No Odor	Y	ML	Y	Produced Water Vessel (PWV)		
7/1/2024 13:35	SEP-B01@6"	1.4	No Staining	No Odor	Y	ML	Y	Separator (SEP)	1	
7/1/2024 13:40	AST-B01@6"	2.1	No Staining	No Odor	Y	ML	Y	Emission Control Device (ECD)		
7/1/2024 13:45	BG01@6"	1.9	No Staining	No Odor	Y	ML	Y	Dump Line (DL)		
7/1/2024 13:50	BG02@6"	1.4	No Staining	No Odor	Y	ML	Y	Wellhead (WH)	1	
7/1/2024 13:55	BG03@6"	1.1	No Staining	No Odor	Y	ML	Y	Flowline (FL)		
7/1/2024 14:00	BG04@6"	1.4	Organic Cor	No Odor	Y	ML	Y	FL Method of Closure		
7/1/2024 14:05	BG05@6"	1.4	Organic Cor	No Odor	Y	ML	Y	FL Footage Removed		
9/25/2024 10:00	WH-B02@1'	0.2	No Staining	No Odor	Y	ML	Y	Footaged Abandoned in Place		
9/25/2024 10:05	SEP-B02@1'	0.1	No Staining	No Odor	Y	ML	Y	Other:		
9/25/2024 10:10	BG06@1'	0.6	No Staining	No Odor	Y	ML	Y	Soil Loads Removed		
9/25/2024 10:15	BG07@1'	0.1	No Staining	No Odor	Y	ML	Y	IMPACTED SOIL IDENTIFIED? Yes		
9/25/2024 10:20	BG08@1'	0.0	No Staining	No Odor	Y	ML	Y	ESTIMATED VOLUME OF IMPACTS: See Below		
9/25/2024 10:25	BG09@1'	0.2	No Staining	No Odor	Y	ML	Y	Date	Number	CY
9/25/2024 10:30	BG10@1'	0.2	No Staining	No Odor	Y	ML	Y	September 2024	1	~2
								Total Removed	1	~2
								Disposal Facility: Front Range Landfill		
								Groundwater Recovery		
								DATE GW ENCOUNTERED: N/A	DEPTH:	
								GROUNDWATER IN CONTACT WITH IMPACTED SOIL?		
								LNAPL OR SHEEN OBSERVED ON GW?		
GROUNDWATER SAMPLING								Date	BBLs	
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?				
								Total Removed	0	
								Disposal Facility:		

 <p>99°E (T) ● 40°2'28"N, 104°57'53"W ±16ft ▲ 5108ft</p> <p>WH-B01@6" X</p> <p>01 Jul 2024, 12:59:22</p>			 <p>147°SE (T) ● 40°2'28"N, 104°57'53"W ±16ft ▲ 5107ft</p> <p>SEP-B01@6" X</p> <p>01 Jul 2024, 13:08:55</p>						
						Equipment ID: Equipment Type:			
Material:		Volume:	Contents:		Material:		Volume:	Contents:	
Notes/Conditions: Soil sampling location.					Notes/Conditions: Soil sampling location.				

					
<p>Equipment ID: Equipment Type:</p>			<p>Equipment ID: 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 location.</p>			<p>Notes/Conditions: Background soil sampling location.</p>		

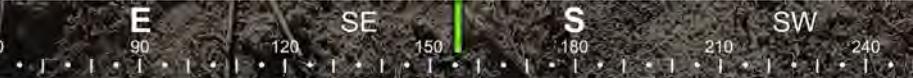
					
<p>☉ 283°W (T) ● 40°2'29"N, 104°57'53"W ±16ft ▲ 5106ft</p>			<p>☉ 6°N (T) ● 40°2'26"N, 104°57'54"W ±16ft ▲ 5112ft</p>		
 <p style="text-align: center;">01 Jul 2024, 13:27:05</p>			 <p style="text-align: center;">01 Jul 2024, 13:30:44</p>		
Equipment ID:			Equipment ID:		
Equipment Type:			Equipment Type:		
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Background soil sampling location.			Notes/Conditions: Background soil sampling location.		

					
<p>☀ 77°E (T) ● 40°2'27"N, 104°57'52"W ±16ft ▲ 5114ft</p>			<p>☀ 61°NE (T) ● 40°2'27"N, 104°57'51"W ±16ft ▲ 5114ft</p>		
					
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Background soil sampling location.			Notes/Conditions: Background soil sampling location.		

					
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Background soil sample lithology.			Notes/Conditions: Soil sampling location		

					
141°SE (T) ● 40°2'28"N, 104°57'53"W ±16ft ▲ 5112ft			243°SW (T) ● 40°2'29"N, 104°57'53"W ±16ft ▲ 5110ft		
					
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Soil sampling location			Notes/Conditions: Background soil sampling location		

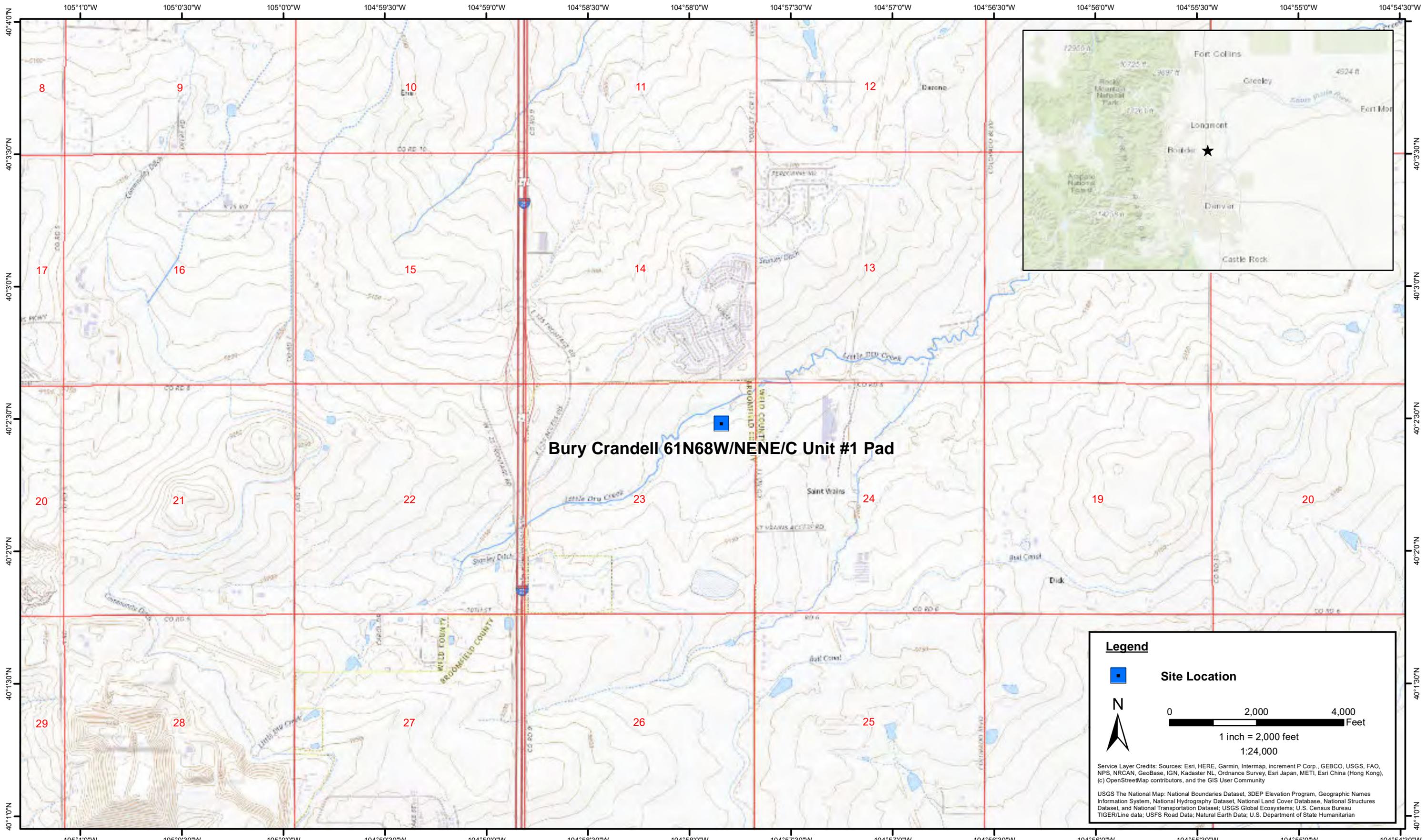
					
284°W (T) ● 40°2'29"N, 104°57'54"W ±16ft ▲ 5111ft			252°W (T) ● 40°2'27"N, 104°57'54"W ±16ft ▲ 5114ft		
 <p style="text-align: center;">BG07@1 X</p> <p style="text-align: right;">25 Sep 2024, 10:49:00</p>			 <p style="text-align: center;">BG08@1 X</p> <p style="text-align: right;">25 Sep 2024, 10:51:35</p>		
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Background soil sampling location			Notes/Conditions: Background soil sampling location		

					
156°SE (T) ● 40°2'27"N, 104°57'52"W ±16ft ▲ 5114ft			113°SE (T) ● 40°2'29"N, 104°57'49"W ±16ft ▲ 5106ft		
					
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Background soil sampling location			Notes/Conditions: Background soil sampling location		



Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Background soil sampling lithology				Notes/Conditions:			

FIGURES



DATE: July 2023
 DESIGNED BY: S. Vogt
 DRAWN BY: L. Reed



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

Crestone Peak Resources Operating, LLC
Bury Crandell 61N68W/NENE/C Unit #1 Pad
 NENE Sec. 23-T1N-R68W
 Broomfield County, Colorado

Site Location Map

Figure
1

WH-B01 @6"	
Compound	07/01/2024
Chromium (VI) (mg/kg)	0.518
Selenium (mg/kg)	2.84

AST-B01 @6"

SEP-B01 @6"	
Compound	07/01/2024
SAR	12.1

Legend

- ⊕ 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)

ECMC Table 915-1 Soil Standards	
Compound	Date
Chromium (VI) mg/kg	0.00067 / 0.3
Selenium (mg/kg)	0.26 / 390
SAR	< 6

Notes

All locations are approximate unless otherwise noted.

GPS = Global Positioning System

ECMC = Colorado Energy and Carbon Management Commission

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

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

Chromium (VI) = Hexavalent Chromium

SAR = Sodium Adsorption Ratio

mg/kg = milligrams per kilogram

0 ft. 50 ft. 100 ft.



Image Source: Google Earth

DATE: October 22, 2024

DESIGNED BY: S. Vogt

DRAWN BY: L. Molson



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

Crestone Peak Resources Operating, LLC
Bury Crandell 61N68W/NENE/C Unit #1 Pad
NENE Sec. 23-T1N-R68W
Broomfield County, Colorado

Soil Sample Location Map
(07/01/2024)

FIGURE
2A

WH-B02@1'	
Compound	09/25/2024
pH	8.49

AST-B01@6"

SEP-B02@1'

Legend

-  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 (Collected via Trimble GPS)

ECMC Table 915-1 Soil Standards	
Compound	Date
pH	6 - 8.3

Notes

All locations are approximate unless otherwise noted.

Locations removed via excavation not shown.

GPS = Global Positioning System

ECMC = Colorado Energy and Carbon Management Commission

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



Image Source: Google Earth

DATE:	October 22, 2024
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Molson



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Broomfield, Colorado 80020

Crestone Peak Resources Operating, LLC
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 NENE Sec. 23-T1N-R68W
 Broomfield County, Colorado

Soil Sample Location Map
(09/25/2024)

FIGURE
2B



Legend

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

Notes

All locations are approximate unless otherwise noted

GPS = Global Positioning System

0 ft. 50 ft. 100 ft.

Image Source: Google Earth

DATE:	October 22, 2024
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Molson



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Crestone Peak Resources Operating, LLC
Bury Crandell 61N68W/NENE/C Unit #1 Pad
 NENE Sec. 23-T1N-R68W
 Broomfield County, Colorado

Background Soil Sample
 Location Map
 (07/01/2024 & 09/25/2024)

FIGURE
 3

TABLES

MATERIAL LEFT IN PLACE

TABLE 1
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
SOIL 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)
AST-B01@6"	6"	07/01/2024	2.1	40.041369	-104.964429	0.9	Y
WH-B02@1'	1'	09/25/2024	0.2	40.041363	-104.964856	0.8	Y
SEP-B02@1'	1'	09/25/2024	0.1	40.041143	-104.964837	0.8	Y
BACKGROUND							
BG01@6"	6"	07/01/2024	1.9	40.041568	-104.964852	0.9	Y
BG02@6"	6"	07/01/2024	1.4	40.041513	-104.964997	1.0	Y
BG03@6"	6"	07/01/2024	1.1	40.040758	-104.965019	0.9	Y
BG04@6"	6"	07/01/2024	1.4	40.040866	-104.964619	1.0	Y
BG05@6"	6"	07/01/2024	1.4	40.040988	-104.964364	1.0	Y
BG06@1'	1'	09/25/2024	0.6	40.041543	-104.964817	0.8	Y
BG07@1'	1'	09/25/2024	0.1	40.041453	-104.965060	0.8	Y
BG08@1'	1'	09/25/2024	0.0	40.040903	-104.965091	0.7	Y
BG09@1'	1'	09/25/2024	0.2	40.040964	-104.964572	0.8	Y
BG10@1'	1'	09/25/2024	0.2	40.041527	-104.963714	0.8	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

TABLE 2
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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 - RSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27
AST-B01@6"	6"	07/01/2024	<0.000467	<0.00130	<0.000737	<0.000880	<0.00408	0.0357	4.81	15.5	<0.00200	0.497
WH-B02@1'	1'	09/25/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.00500	<0.00500
SEP-B02@1'	1'	09/25/2024	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<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 Screening Level

RSL = 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
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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 - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
AST-B01@6"	6"	07/01/2024	<0.00209	<0.00230	<0.00173	<0.00153	<0.00215	<0.00179	<0.00232	<0.00172	<0.00227	<0.00205	<0.00181	<0.00449	<0.00427	<0.00200
WH-B02@1'	1'	09/25/2024	<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
SEP-B02@1'	1'	09/25/2024	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

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 Screening Level

RSL = 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 = Dibenzo(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
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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)
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 - RSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
AST-B01@6"	6"	07/01/2024	3.43*	163*	0.133	<0.255	10.4	9.29	10.1	1.49*	<0.0865	33.2
WH-B02@1'	1'	09/25/2024	7.36*	189*	0.418*	<0.30	7.79	12.2	8.88	0.285*	0.0803	26.7
SEP-B02@1'	1'	09/25/2024	5.70*	351*	0.400*	<0.30	6.62	10.3	7.99	0.295*	0.0398	24.6
BACKGROUND												
BG01@6"	6"	07/01/2024	11.1**	198	0.427	<0.255	22.0	17.2	20.4	1.91	0.150	73.2
BG02@6"	6"	07/01/2024	7.43	190	0.413	<0.255	19.3	17.3	17.7	2.02	0.184	63.5
BG03@6"	6"	07/01/2024	5.17	207	0.312	<0.255	15.4	13.8	16.8	1.77	<0.0865	53.2
BG04@6"	6"	07/01/2024	3.90	549**	0.450	0.295	18.7	19.2	10.2	1.48	0.245	48.1
BG05@6"	6"	07/01/2024	3.96	298	0.452	<0.255	21.2	32.5**	9.71	1.11	<0.0865	59.2
BG06@1'	1'	09/25/2024	6.07	132	0.440	<0.30	7.80	15.6	8.51	<0.234	0.0967	28.1
BG07@1'	1'	09/25/2024	5.76	203	0.490	<0.30	7.78	15.6	8.89	0.262	0.0828	29.3
BG08@1'	1'	09/25/2024	7.78	175	0.466	<0.30	8.54	14.9	8.15	0.304	0.0802	40.1
BG09@1'	1'	09/25/2024	6.03	169	0.457	<0.30	7.92	15.7	7.88	0.366	0.0949	27.5
BG10@1'	1'	09/25/2024	8.05	236	0.434	<0.30	8.39	14.5	8.72	0.449	0.0984	27.3
Highest Background @ 6" - 1' x1.25 (ML)			10.0	372	0.613	0.369	27.5	24.0	25.5	2.53	0.306	91.5

Notes:

(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)

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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

TABLE 4
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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)
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 - RSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000

**Concentration is considered anomalously high, not considered for site-specific background concentration.

TABLE 5
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
AST-B01@6"	6"	07/01/2024	7.64	5.74	2.64	0.497
WH-B02@1'	1'	09/25/2024	8.49	1.46	0.292	<2.00
SEP-B02@1'	1'	09/25/2024	8.22	2.61	1.41	<2.00
BACKGROUND						
BG01@6"	6"	07/01/2024	7.98	0.628	0.352	1.07
BG02@6"	6"	07/01/2024	7.99	1.02	0.372	1.18
BG03@6"	6"	07/01/2024	8.15	1.21	0.284	0.388
BG04@6"	6"	07/01/2024	6.92	0.398	0.132	2.65
BG05@6"	6"	07/01/2024	7.20	1.3	0.586	0.361
BG06@1'	1'	09/25/2024	8.37	1.09	0.281	<2.00
BG07@1'	1'	09/25/2024	8.30	1.12	0.357	<2.00
BG08@1'	1'	09/25/2024	8.40	1.48	0.346	<2.00
BG09@1'	1'	09/25/2024	8.08	1.94	0.504	<2.00
BG10@1'	1'	09/25/2024	8.32	16.5**	5.08**	<2.00
Highest Background @ 6" - 1' (ML)			8.40	1.94	0.586	2.65

Notes:

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

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

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

**Concentration is considered anomalously high, not considered for site-specific background concentration.

TABLES

IMPACTED MATERIAL REMOVED

TABLE 1
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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)
WH-B01@6"	6"	07/01/2024	1.0	40.041365	-104.964862	1.0	Y
SEP-B01@6"	6"	07/01/2024	1.4	40.041141	-104.964838	0.9	Y
BACKGROUND							
BG01@6"	6"	07/01/2024	1.9	40.041568	-104.964852	0.9	Y
BG02@6"	6"	07/01/2024	1.4	40.041513	-104.964997	1.0	Y
BG03@6"	6"	07/01/2024	1.1	40.040758	-104.965019	0.9	Y
BG04@6"	6"	07/01/2024	1.4	40.040866	-104.964619	1.0	Y
BG05@6"	6"	07/01/2024	1.4	40.040988	-104.964364	1.0	Y
BG06@1'	1'	09/25/2024	0.6	40.041543	-104.964817	0.8	Y
BG07@1'	1'	09/25/2024	0.1	40.041453	-104.965060	0.8	Y
BG08@1'	1'	09/25/2024	0.0	40.040903	-104.965091	0.7	Y
BG09@1'	1'	09/25/2024	0.2	40.040964	-104.964572	0.8	Y
BG10@1'	1'	09/25/2024	0.2	40.041527	-104.963714	0.8	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

TABLE 2
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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 - RSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27
WH-B01@6"	6"	07/01/2024	<0.000467	<0.00130	<0.000737	<0.000880	<0.00408	<0.0217	7.49	18.4	<0.00200	0.610
SEP-B01@6"	6"	07/01/2024	<0.000467	<0.00130	<0.000737	<0.000880	<0.00408	<0.0217	24.6	26.5	<0.00200	0.461

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 Screening Level

RSL = 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
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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 - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
WH-B01@6"	6"	07/01/2024	<0.00209	<0.00230	<0.00173	<0.00153	<0.00215	<0.00179	<0.00232	<0.00172	<0.00227	<0.00205	<0.00181	<0.00449	<0.00427	<0.00200
SEP-B01@6"	6"	07/01/2024	<0.00209	<0.00230	<0.00173	<0.00153	<0.00215	<0.00179	<0.00232	<0.00172	<0.00227	<0.00205	<0.00181	<0.00449	<0.00427	<0.00200

Notes:

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 Screening Level

RSL = 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
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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 - RSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
WH-B01@6"	6"	07/01/2024	6.46*	193*	0.297	0.518	16.0	14.0	16.1	2.84	<0.0865	49.4
SEP-B01@6"	6"	07/01/2024	2.82*	231*	0.117	<0.255	9.53	7.43	9.45	1.34*	<0.0865	29.9
BACKGROUND												
BG01@6"	6"	07/01/2024	11.1**	198	0.427	<0.255	22.0	17.2	20.4	1.91	0.150	73.2
BG02@6"	6"	07/01/2024	7.43	190	0.413	<0.255	19.3	17.3	17.7	2.02	0.184	63.5
BG03@6"	6"	07/01/2024	5.17	207	0.312	<0.255	15.4	13.8	16.8	1.77	<0.0865	53.2
BG04@6"	6"	07/01/2024	3.90	549**	0.450	0.295	18.7	19.2	10.2	1.48	0.245	48.1
BG05@6"	6"	07/01/2024	3.96	298	0.452	<0.255	21.2	32.5**	9.71	1.11	<0.0865	59.2
BG06@1'	1'	09/25/2024	6.07	132	0.440	<0.30	7.80	15.6	8.51	<0.234	0.0967	28.1
BG07@1'	1'	09/25/2024	5.76	203	0.490	<0.30	7.78	15.6	8.89	0.262	0.0828	29.3
BG08@1'	1'	09/25/2024	7.78	175	0.466	<0.30	8.54	14.9	8.15	0.304	0.0802	40.1
BG09@1'	1'	09/25/2024	6.03	169	0.457	<0.30	7.92	15.7	7.88	0.366	0.0949	27.5
BG10@1'	1'	09/25/2024	8.05	236	0.434	<0.30	8.39	14.5	8.72	0.449	0.0984	27.3
Highest Background @ 6" - 1' x1.25 (ML)			10.0	372	0.613	0.369	27.5	24.0	25.5	2.53	0.306	91.5

Notes:

(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)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

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

mg/kg = milligrams per kilogram

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

**Concentration is considered anomalously high, not considered for site-specific background concentration.

TABLE 5
BURY CRANDELL 61N68W/NENE/C UNIT #1 PAD
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
WH-B01@6"	6"	07/01/2024	7.94	2.98	1.25	0.610
SEP-B01@6"	6"	07/01/2024	7.89	12.1	3.69	0.461
BACKGROUND						
BG01@6"	6"	07/01/2024	7.98	0.628	0.352	1.07
BG02@6"	6"	07/01/2024	7.99	1.02	0.372	1.18
BG03@6"	6"	07/01/2024	8.15	1.21	0.284	0.388
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BG05@6"	6"	07/01/2024	7.20	1.3	0.586	0.361
BG06@1'	1'	09/25/2024	8.37	1.09	0.281	<2.00
BG07@1'	1'	09/25/2024	8.30	1.12	0.357	<2.00
BG08@1'	1'	09/25/2024	8.40	1.48	0.346	<2.00
BG09@1'	1'	09/25/2024	8.08	1.94	0.504	<2.00
BG10@1'	1'	09/25/2024	8.32	16.5**	5.08**	<2.00
Highest Background @ 6" - 1' (ML)			8.40	1.94	0.586	2.65

Notes:

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

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

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

**Concentration is considered anomalously high, not considered for site-specific background concentration.