

**FOUNDATION ENERGY INC.
LAS ANIMAS MINERALS 1-10
FORM 27 SUPPLEMENTAL REPORT**

ATTACHMENTS

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Table 1
Las Animas Minerals 1-10
Soil Suitability and Metals Soil Sample Results
Cheyenne County, Colorado

Sample ID	Date Sampled	Lab Report Number	PID Reading (ppm)	pH (pH units)	Specific Conductance (EC) (mmhos/cm)	Sodium Adsorption Ratio (SAR)	Boron (mg/l)	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)	Comments
ECMC Residential Soil Screening Level Standards (mg/kg) ⁽³⁾	-	-	-	6-8.3	<4 mmhos/cm	<6	2 (mg/l)	0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000	
ECMC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-	6-8.3	<4 mmhos/cm	<6	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370	
HA1@2'	2/21/2024	2402393R	0.0	8.11	0.215	0.111	<2.00	5.84	148	<0.200	<0.30*	6.91	8.87	6.02	0.315	0.0286	24.2	
HA2@1'	2/21/2024	2402393R	7.7	7.82	2.28	7.42	<2.00	6.08	123	0.215	<0.30*	7.27	9.19	6.19	0.353	0.0350	24.4	
HA2@5'	2/21/2024	2402393R	1.2	-	-	2.26	-	-	-	-	-	-	-	-	-	-	-	
HA3@1'	2/21/2024	2402393R	0.2	8.11	1.75	3.51	<2.00	7.40	160	0.250	<0.30*	7.66	11.6	6.94	0.455	0.0548	25.9	
HA4@3'	2/21/2024	2402393R	0.0	7.71	3.02	1.19	<2.00	6.35	72.5	<0.200	<0.30*	4.96	6.61	5.17	0.338	0.0238	19.2	
HA5@3'	2/21/2024	2402393R	0.0	7.78	3.170	1.52	<2.00	10.5	229	0.265	<0.30*	7.87	12.4	8.27	0.497	0.0485	27.5	
HA-5@5'	8/28/2024	2408375R2	-	-	-	-	-	3.35	-	-	-	-	-	-	-	-	-	
HA-6@1'	8/28/2024	2408375R2	-	-	-	7.90	-	-	-	-	-	-	-	-	-	-	-	
HA-6@2'	8/28/2024	2408375R2	-	-	-	6.18	-	-	-	-	-	-	-	-	-	-	-	
HA-6@3'	8/28/2024	2408375R2	-	-	-	2.48	-	-	-	-	-	-	-	-	-	-	-	
HA-7@1'	8/28/2024	2408375R2	-	-	-	1.36	-	-	-	-	-	-	-	-	-	-	-	
HA-8@1'	8/28/2024	2408375R2	-	-	-	11.4	-	-	-	-	-	-	-	-	-	-	-	
HA-8@2'	8/28/2024	2408375R2	-	-	-	5.58	-	-	-	-	-	-	-	-	-	-	-	
BG1@2'	2/21/2024	2402393R	0.7	8.11	0.594	0.490	<2.00	7.91	202	0.327	<0.30*	8.47	13.6	7.93	0.408	0.0622	30.2	
BG2@3'	2/21/2024	2402393R	0.0	7.77	3.07	2.45	<2.00	5.89	136	0.428	<0.30*	7.63	18.0	10.2	0.957	0.0750	48.2	
BG-3@1'	8/28/2024	2408375R2	-	-	-	0.103	-	6.42	-	-	-	-	-	-	-	-	-	
BG-3@3'	8/28/2024	2408375R2	-	-	-	5.19	-	7.71	-	-	-	-	-	-	-	-	-	
BG-3@5'	8/28/2024	2408375R2	-	-	-	-	-	5.24	-	-	-	-	-	-	-	-	-	
BG-4@1'	8/28/2024	2408375R2	-	-	-	-	-	7.29	-	-	-	-	-	-	-	-	-	
BG-4@3'	8/28/2024	2408375R2	-	-	-	-	-	6.88	-	-	-	-	-	-	-	-	-	
BG-4@5'	8/28/2024	2408375R2	-	-	-	-	-	7.50	-	-	-	-	-	-	-	-	-	

Notes:

1). The environmental cleanup standards for soil that are applicable to this site are the Colorado Energy & Carbon Management Commission (ECMC) standards for contaminants in soil according to Table 915-1 (Post January 15, 2021) of the ECMC 900 Series Rule for E&P Waste Management.

2). If there is no pathway for communication with Groundwater, then residential soil screening levels apply for organic compounds and metals. If the Director determines that a pathway to Groundwater exists, then the protection of Groundwater soil screening levels will apply, secondary to actual measured concentrations of the contaminants of concern in Groundwater.

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

mg/kg= Milligrams per kilogram.

ppm - Parts per million

PID - Photoionization Detector

NA - Not Analyzed

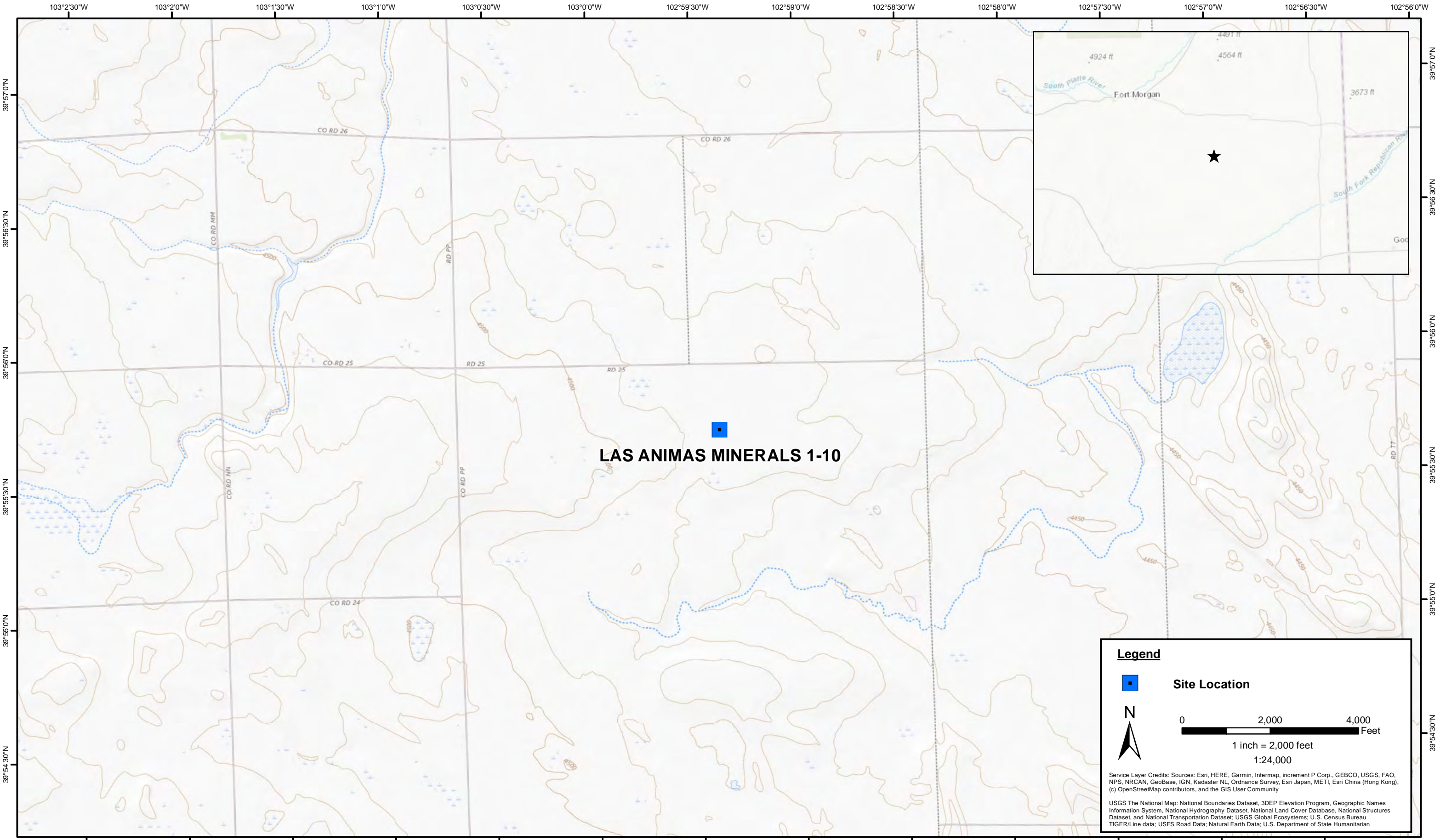
Bold values indicate metals concentrations greater than the ECMC Protection of Groundwater Standard.

Bold red values indicate an exceedance of the ECMCResidential Soil Standard for the Site.

Table 2
Las Animas Minerals 1-10
Investigation Location Coordinates
Cheyenne County, Colorado

Location	Sample ID	Type	Date Collected	Latitude	Longitude
Las Animas Minerals 1-10	HA1	Soil	2/21/2024	38.9285903829	-102.9901716210
Las Animas Minerals 1-10	HA2	Soil	2/21/2024	38.9286712948	-102.9899556920
Las Animas Minerals 1-10	HA3	Soil	2/21/2024	38.9287077165	-102.9898211360
Las Animas Minerals 1-10	HA4	Soil	2/21/2024	38.9285194386	-102.9898935970
Las Animas Minerals 1-10	HA5	Soil	2/21/2024	38.9283880511	-102.9898087970
Las Animas Minerals 1-10	HA-6	Soil	8/28/2024	38.9287352635	-102.9899738840
Las Animas Minerals 1-10	HA-7	Soil	8/28/2024	38.9286458733	-102.9900574410
Las Animas Minerals 1-10	HA-8	Soil	8/28/2024	38.9286322763	-102.9898701220
Las Animas Minerals 1-10	BG1	Soil	2/21/2024	38.9288545250	-102.9902129980
Las Animas Minerals 1-10	BG2	Soil	2/21/2024	38.9282285577	-102.9902375360
Las Animas Minerals 1-10	BG-3	Soil	8/28/2024	38.9287134732	-102.9894544870
Las Animas Minerals 1-10	BG-4	Soil	8/28/2024	38.9280820076	-102.9896407160

Locations are approximate



DATE:
February 2024

DESIGNED BY:
J. Watts

DRAWN BY:
J. Clonts

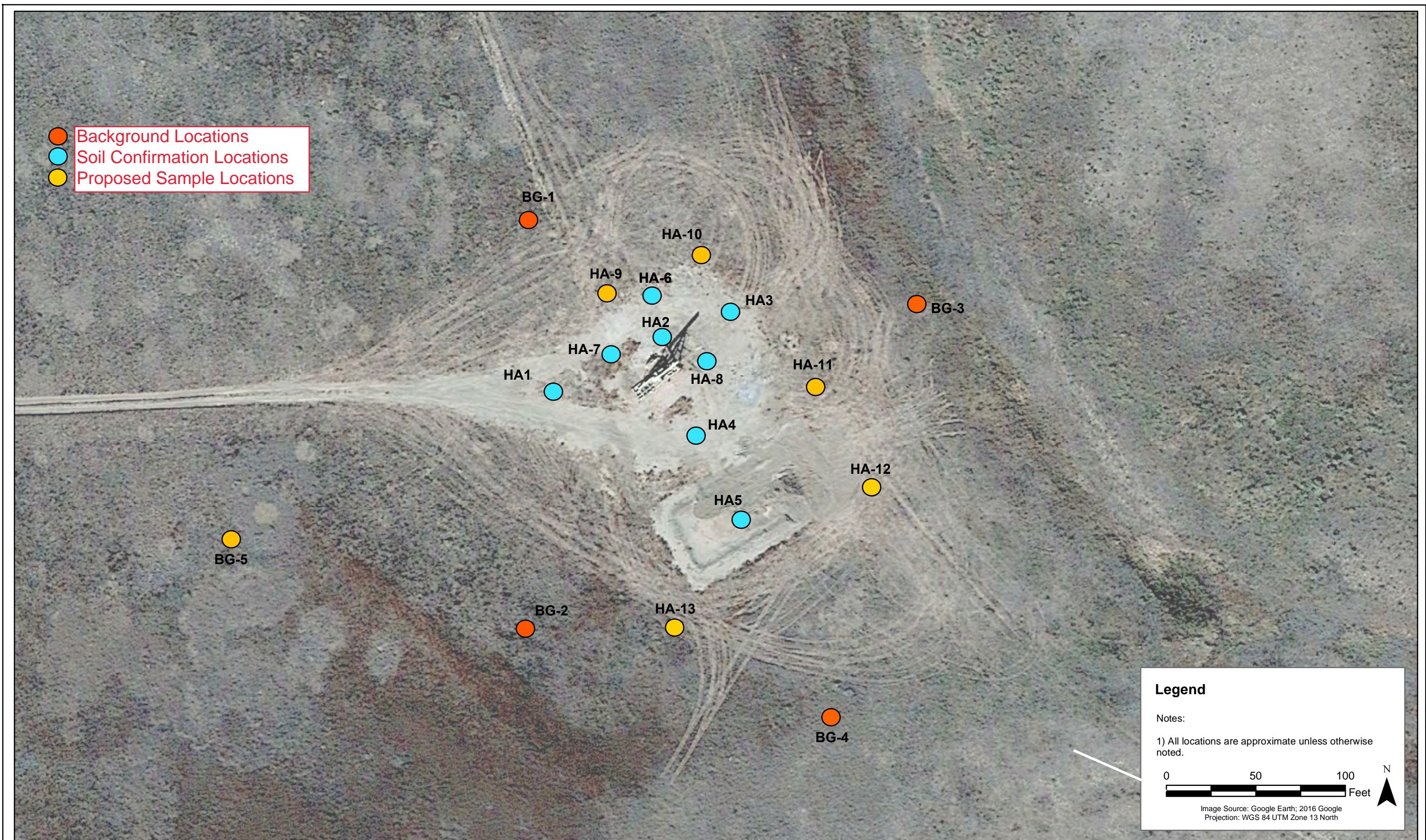


Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

Foundation Energy
LAS ANIMAS MINERALS 1-10
SWNW, Section 33, Township 1 North, Range 50W
Cheyenne County, Colorado

Site Location Map

Figure
1



DATE:	November 2024
DESIGNED BY:	J. Watts
DRAWN BY:	K. MacDonald



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

Foundation Energy
Las Animas Minerals 1-10
 SWNW, Section 33, Township 1 North, Range 50W
 Cheyenne County, Colorado

Site Overview Map with
 Proposed Soil Sample
 Locations

FIGURE
2

EXCAVATION FIELD FORM

SITE NAME / API #: <i>Las Animas Minerals 1-10</i>				DATE: <i>8-26-24</i>		WEATHER: <i>80s, sunny/breezy</i>	
SITE DIRECTIONS:				WO#			
LEGALS AND LAT/LONG: <i>38.928640, -102.989910</i>				DIST./DIR. TO NEAREST WATER WELL (ft.):			
SOIL TYPES: <i>CH, SC, SP</i>				DEPTH TO GROUNDWATER: <i>NA</i>			
LAND USE:		LINER PRESENT:		SURFACE WATER:			
LIVESTOCK PRESENT:		OCCUPIED BUILDING:		CLIENT PERSONNEL:			
HISTORICAL/RECENT RELEASE:		SUMP REPLACEMENT/CLOSURE:		TASMAN PERSONNEL: <i>KM, BU</i>			

Date	Soil Sample ID	Time	PID ppm	Stain?	Odor?	Lab?	WHAT SPILLED:																																																
<i>8/28</i>	<i>HA-5e5'</i>	<i>1100</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>	AMOUNT SPILLED:																																																
<i>1</i>	<i>HA-5e6'</i>	<i>1110</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>	CAUSE OF SPILL:																																																
	<i>HA-5e7'</i>	<i>1120</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>	HOW WAS IT FOUND:																																																
	<i>BG-4e1'</i>	<i>1135</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>																																																	
	<i>BG-4e3'</i>	<i>1145</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>																																																	
	<i>BG-4e5'</i>	<i>1155</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>	HOW WAS IT STOPPED/CONTAINED:																																																
	<i>HA-8e1'</i>	<i>12:00</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>	HOW WAS IT RECOVERED:																																																
	<i>HA-8e2'</i>	<i>12:05</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>																																																	
	<i>HA-8e3'</i>	<i>12:10</i>	<i>-</i>	<i>Y</i>	<i>N</i>	<i>H</i>																																																	
	<i>HA-8e4'</i>	<i>12:15</i>	<i>0.0</i>	<i>Y</i>	<i>Y</i>	<i>H</i>	Soil Disposal Facility: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Soil Loads Removed</th> </tr> <tr> <th>Date</th> <th colspan="2">Number</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Soil Loads Removed			Date	Number																																											
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Date	Number																																																						
	<i>HA-8e5'</i>	<i>12:20</i>	<i>0.0</i>	<i>Y</i>	<i>Y</i>	<i>H</i>																																																	
	<i>BG-3e1'</i>	<i>1230</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>																																																	
	<i>BG-3e3'</i>	<i>1240</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>																																																	
	<i>BG-3e5'</i>	<i>1250</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>																																																	
	<i>HA-6e1'</i>	<i>12:51</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>																																																	
	<i>HA-6e2'</i>	<i>12:52</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>																																																	
	<i>HA-6e3'</i>	<i>12:53</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>																																																	
	<i>HA-6e4'</i>	<i>12:54</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>																																																	
	<i>HA-6e5'</i>	<i>12:55</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>																																																	
	<i>HA-7e1'</i>	<i>12:56</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>Y</i>																																																	
	<i>HA-7e2'</i>	<i>12:57</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>																																																	
	<i>HA-7e3'</i>	<i>12:58</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>																																																	

GROUNDWATER:

Date	Groundwater Sample ID	Time	Sheen?	Color	Odor?	Lab?
	<i>HA-7e4'</i>	<i>12:59</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>
	<i>HA-7e5'</i>	<i>13:00</i>	<i>-</i>	<i>N</i>	<i>N</i>	<i>H</i>

GW Disposal Facility:	
Date	BBLS Out
TOTAL REMOVED	

HA-8:

0-2': Dark brown, moist, very stiff sandy fat clay, nothing
2-5': Gray, moist, stiff sandy fat clay, nothing
black staining, slight odor @ 4-5'

HA-5:

0-4': Brown, Dry, low density, silty sand,
4'-6.5': Brown, Dry, Low density, coarse grained sand,
6.5'-7': Brown, Dry, Low stiffness, clayey sand

BL-4:

0-5': Dark Brown, Low stiffness, clayey sand

BL-3:

0-5': Brown, Low density, silty sand

HA-6:

0-5': Brown, dry to moist, hard sandy clay to clayey sand
interbedded SW

HA-7:

Brown, dry, dense clayey sand with interbedded
clay and SP





















