

Technical Report

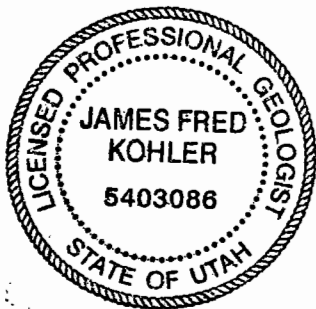
INITIAL RESOURCE ESTIMATE
ANTELOPE MINING CLAIM
SOIL AMENDMENTS PROJECT
Millard County, Utah

Prepared for:

ADANA, LLC, dba Volcanic Safeguard Holdings

Prepared by:

James F. Kohler, P.G.



Effective Date: July 25, 2023

A handwritten signature in black ink that reads "James F. Kohler". The signature is written over a horizontal line.

James F. Kohler, P.G.

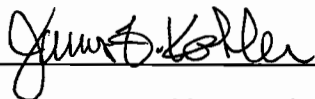
CERTIFICATE OF QUALIFIED PERSON

I, James F. Kohler, am a professional geologist residing at 136 W. Monte Rosa Ln., Midway, Utah 84049, and do hereby certify that:

1. I am the author of the report entitled "Technical Report, Initial Resource Estimate Antelope Mining Claim Soil Amendments Project Millard County, Utah", dated June 28, 2023
2. I am a Registered Professional Geologist with the State of Utah (License Number 5403086-2250) and a Registered Member with the Society for Mining, Metallurgy and Exploration (Member Number 04164736).
3. I graduated with a M.S. Degree in Geology from Utah State University in 1980.
4. I have practiced my profession continuously since graduation.
5. I visited the Antelope Mining Claim property between April 1, 2023 and May 15, 2023.
6. I have had no previous involvement with the property until contracted to write this Technical Report.
7. I am independent of ADANA, LLC, dba Volcanic Safeguard Holdings. I have not received, nor do I expect to receive, any interest (direct, indirect, or contingent), in the property described herein for the services rendered in the preparation of this report.
8. I was retained by ADANA, LLC, dba Volcanic Safeguard Holdings to prepare an initial review of the geology of the Antelope Mining Claim and provide an estimate of the potential resources that might be developed.
9. I have read National Instrument 43-101 and Form 43-101F1 and, by reason of education and relevant work experience, I fulfill the requirements to be a "Qualified Person" for the purposes of NI 43-101.
10. As of the date of this certificate, to the best of my knowledge, information and belief, this Technical Report contains the scientific and technical information that is required in order to not make this report misleading.
11. I, the undersigned, prepared this Report entitled "Technical Report, Initial Resource Estimate Antelope Mining Claim Soil Amendments Project Millard County, Utah", dated June 1, 2023, in support of the public disclosure of the exploration potential of the Antelope Mining Claim property by ADANA, LLC, dba Volcanic Safeguard Holdings.

Effective Date: July 25 2023

Signed this 25th day of July 2023, in Midway, Utah, USA



James F. Kohler, P.G. (5403086-2250)

Table of Contents

Summary	1
Introduction	1
Property Description and Location	1
Land Status.....	2
Accessibility, Topography, and Vegetation.....	2
Geological Setting and Mineralization.....	4
Mineral Resource Estimates	7
Interpretation and Conclusions	8
Recommendations	8
References	8
Appendix I: Auger Hole Logs	10
Appendix II: Sample Analyses	16

Summary

The Antelope Mining Claim contains deposits of sediments deposited in Lake Bonneville the ADANA, LLC, dba Volcanic Safeguard Holdings believes are suitable for producing and marketing as a soil amendment. The lands included within the claim are public lands administered by the Bureau of Land Management and are open for mining location. The claimed lands contain a number of pre-existing rights-of-way which will likely restrict the development of the areas of the claim covered by these rights-of-way. An initial review of the property as described in this report suggests that the potential resource that could be developed is on the order of 400,000 tons. Additional resources could be available to the north and east of the identified mine area and south of the highway.

Introduction

Utah Geosystems, LLC has been commissioned by ADANA, LLC, dba Volcanic Safeguard Holdings (Client) to provide a geologic review of a mining claim known as the Antelope Mine Placer Claim held by the Client for production of material suitable for use as a soil amendment. The purpose of this report is to summarize the initial review of this claim and provide recommendations for further evaluation of the property.

Property Description and Location

The Antelope Mine Placer Claim is located in Millard County, Utah, about 25 miles southwest of Delta, Utah (figure 1). The legal description for the claim is as follows:

T. 19 S., R. 10 W., SLM,

section 7, lot 5, NW $\frac{1}{4}$ NE $\frac{1}{4}$, and E $\frac{1}{2}$ NW $\frac{1}{4}$.

Containing 160 acres, more or less.



FIGURE 1: LOCATION OF THE ANTELOPE MINE MINING CLAIM

Land Status

The claim is located on federal public land managed by the Fillmore Field Office of the United States Bureau of Land Management (BLM). As is shown on the master title plat for T. 19 S., R. 10 W., SLM (figure 2), there are a number of prior rights identified within the boundary of the claim. The claim is bisected by a right-of-way U-03842 which was issued in 1950 for the highway, a right-of-way U-78850 for fiber optic cable which was issued in 2001 and renewed in 2011, and a right-of-way for fiber optic cable which was issued in 2003 and renewed in 2014. In addition, the entire claim is included within right-of-way U-80712 which was issued in 2006 for a Telescope Ray Cosmic Ray Project. The portion of the claim in lot 5 (SW ¼ NW ¼ of section 7) is covered by a material site right-of-way U-03924 which was issued in 1951 for construction materials used to construct the highway.

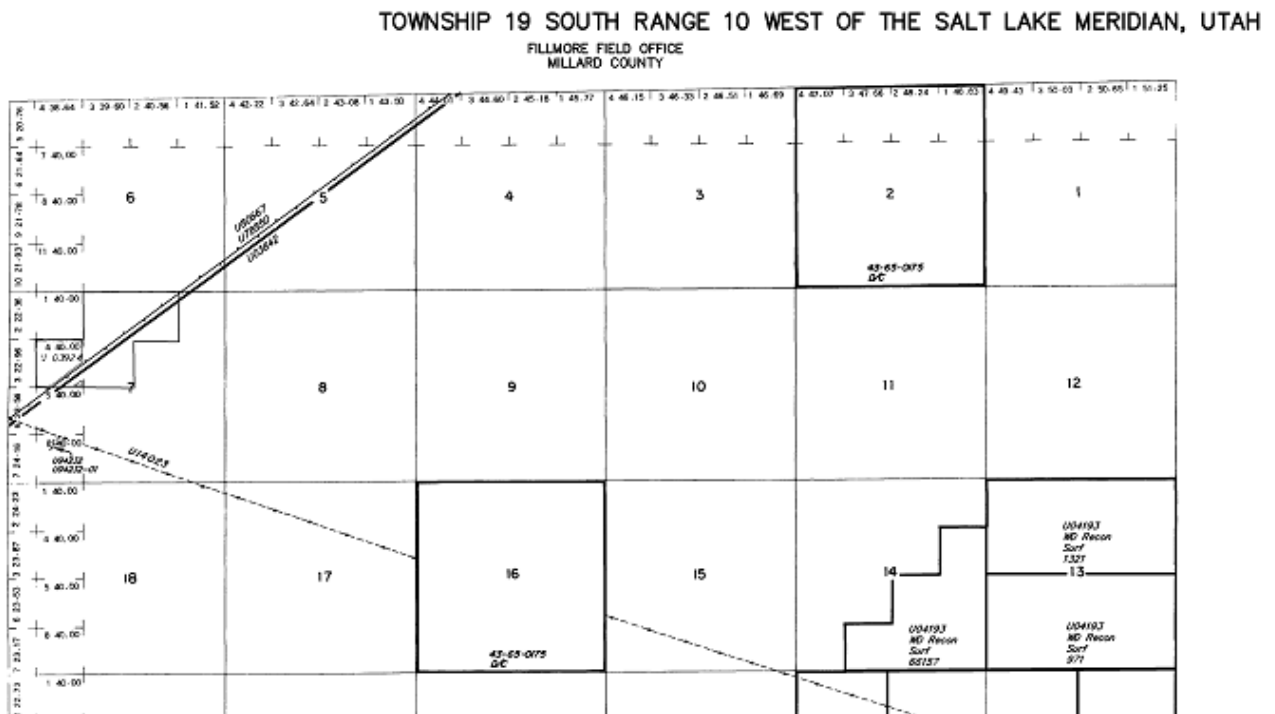


FIGURE 2: PART OF T. 19 S., R. 10 W. PLAT SHOWING R/Ws

Accessibility, Topography, and Vegetation

As is shown on figure 3, the area of the mining claim exhibits low relief with the lands sloping gently to the southeast. Elevations range from 4,730 feet in the west to slightly less than 4,680 feet to the east where the claim intersects an ephemeral drainage. The claim is easily accessed from U.S. Highway 50 which crosses the claim from northeast to southwest.

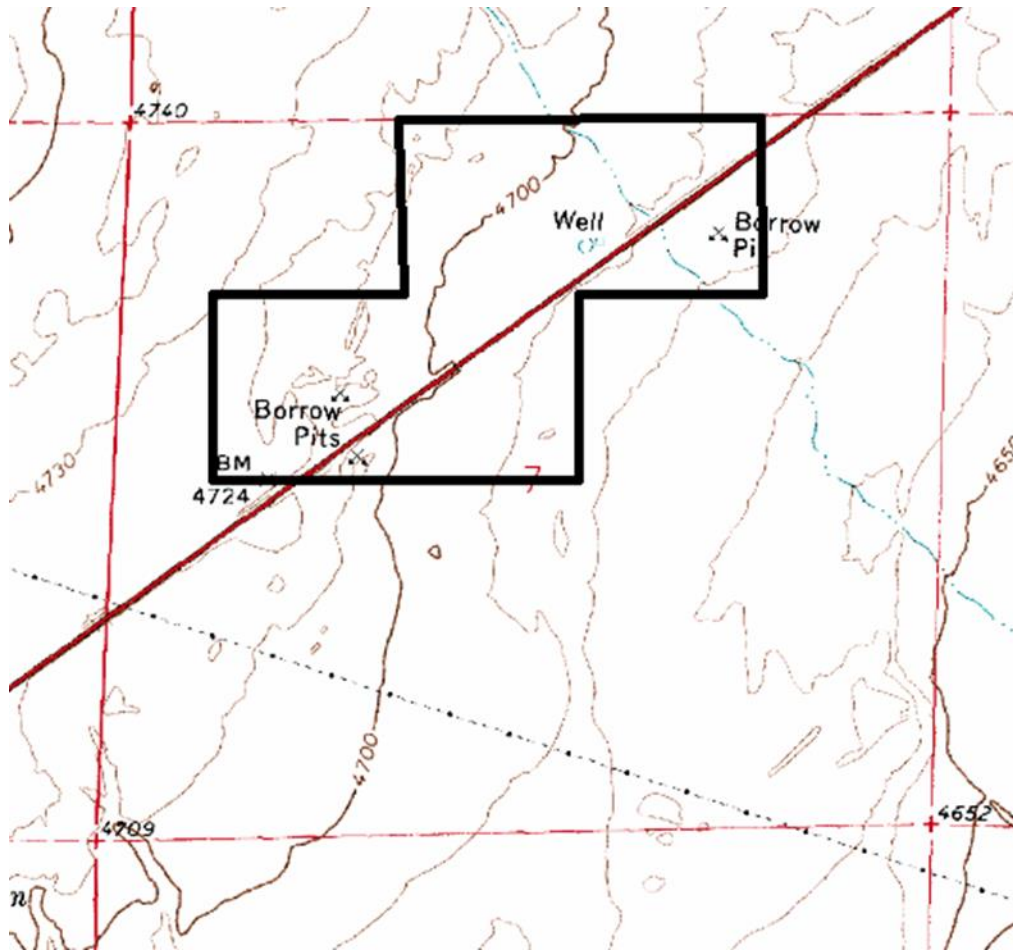


FIGURE 3: TOPOGRAPHY OF THE ANTELOPE MINE MINING CLAIM

The surface has a sparse vegetative cover which is typical of the shrub steppe of the Sevier Desert (figure 3). Published information on the vegetation found in the area of the claim reports that the common shrubs include winterfat (*Krascheninnikovia lanata* and *Atriplex canescens* in low abundance) , *Ephedra nevadensis*, and Broom snakeweed (*Gutierrezia sarothrae*). The area is not quite a salt desert. However, *Sporobolus cryptandrus*, *Oryzopsis hymenoides*, and *Aristida purpurea* are the common grasses and *halogeton glomeratus* and *Erodium cicutarium* are the common herbs, which along with an abundance of *Sporobolus* suggest a long history of physical disturbance (Lavin, 2015).



FIGURE 4: SHRUB STEPPE SEVIER DESERT UTAH (LAVIN, 2015)

Geological Setting and Mineralization

The surface geology of the claim area is shown in figure 4 (Hintze and Davis, 1992). The southwest portion of the claim is mapped as a unit of lacustrine gravel (Qlg) which is described as thin, sandy, pebbly, cobbly and boulder deposits which were deposited along the shoreline of Lake Bonneville. The Utah Department of Transportation investigated the borrow pit in the southwest portion of the claim (Pit Number 14089) and reported that the material contained 94.2% gravel, 5.0% sand and 0.8% silt and clay (Hintze and Davis 1992). Reportedly, abundant gravel resources are present north and south of this pit. In a later published map that included this area, the same unit was mapped as a fine-grained lacustrine deposit, Pleistocene and Pliocene (Hintze and Davis, 2002). However, based on the field investigation, the earlier map the earlier map appears to represent the conditions on the ground. The bottom of the borrow pit is a consolidated sandstone consisting of medium-size well-rounded sand with a calcium carbonate cement. The area of the claim adjacent to the highway is mapped as fine-grain lacustrine deposits that were deposited in ephemeral lakes. The remainder of the claim is mapped as undifferentiated lacustrine and alluvial deposits with the area in the northeast part of the claim showing alluvial deposits along the ephemeral drainage. Some of the surface of the claim is covered by a thin, pebble and gravel desert pavement that appeared to have a thickness of 1 to 2 inches. During the field visit, the client expressed an interest in a light-colored sandy, silty clay layer that is found at or near the surface over the area mapped as the fine-grained lacustrine deposits.

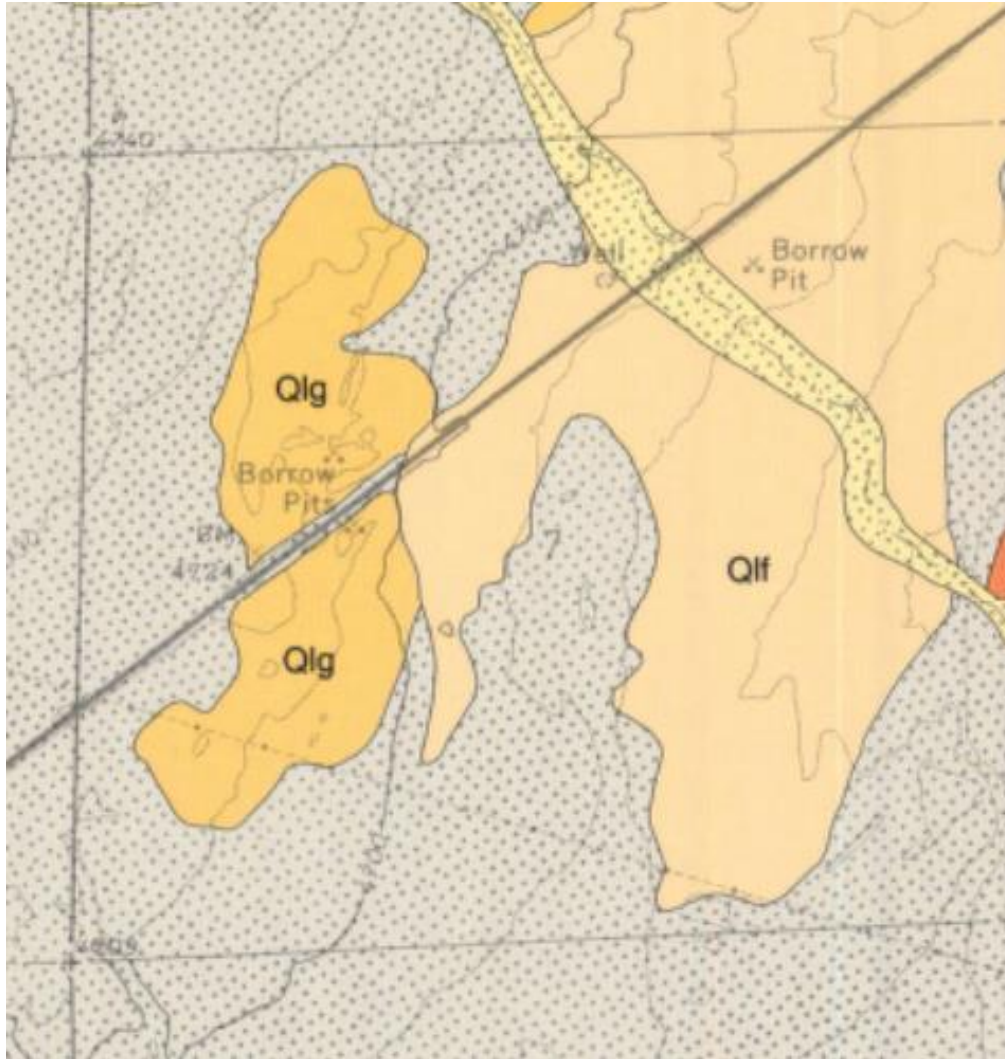


FIGURE 5: GEOLOGIC MAP OF THE ANTELOPE CLAIM AREA (HINTZE AND DAVIS, 1992)

Description of Map Units	
	Alluvial deposits in washes and on fans — <i>Silt, sand, and gravel deposited on piedmont slopes after regression of Lake Bonneville. Locally a few tens of feet thick.</i>
	Fine-grained lacustrine deposits — <i>Clay, silt, and sand deposited in ephemeral lakes; locally may include minor evaporites. Interfingers with alluvium at edge of lake flats. May be a few tens of feet thick.</i>
	Lacustrine lagoon deposits — <i>White, tan, or light-gray fine sediments deposited in lagoons behind gravel bars of Lake Bonneville (Qlg) at many levels. Most deposits less than 10 feet (3 m) thick.</i>
	Lacustrine marl — <i>White to light-gray, fine-grained, thinly bedded to laminated marl deposited in Lake Bonneville. As much as 12 feet (3.6 m) thick locally.</i>
	Lacustrine gravel — <i>Sandy, pebbly, cobbly, and bouldery deposits along Lake Bonneville shorelines at many levels. Where shore impinged against Tsr these deposits are exceptionally bouldery. Individual shoreline deposits are usually less than 20 feet (6 m) thick.</i>
	Lacustrine and alluvial deposits undifferentiated — <i>Deposits on piedmont slopes where pre-Lake Bonneville alluvium has been reworked but where the lacustrine component is thin. Pre-Bonneville fan deposits may be several hundred feet thick locally.</i>

As part of the field investigation, 5 holes were drilled with an Iwan type soil auger to a depth of 4 to 6 feet. The description of these holes is found in Appendix I. The targeted sandy/silty clay deposit was found to be 4 to 6 feet thick in these drill holes. Samples of the deposit from the auger holes were taken by the client and analyzed by Stukenholtz Laboratory in Twin Falls, Idaho using the soil test known as a manure and compost analysis. The results of the analyses are summarized below in Table 1.

TABLE 1: SUMMARY OF COMPOST/MANURE ANALYSIS OF ANTELOPE CLAIM SAMPLES

Sample	P2O5 %	K2O %	Ca %	Mg %	S %	Zn ppm	Fe ppm	Mn ppm	Cu ppm	B ppm	Na %	P %	K %	pH
A-1	0.059	0.13	9.3	1.38	0.49	5	7348	216	2	12	0.32	0.026	0.108	8.9
A2-24	0.067	0.23	12.65	1.74	0.5	10	10233	248	3	20	0.59	0.029	0.191	8.9
A-2JK	0.061	0.098	13.08	1.31	0.44	6	7627	203	0	13	0.35	0.027	0.081	8.9
A-3	0.063	0.08	18.44	1.08	0.57	5	6990	182	3	10	0.39	0.028	0.066	8.4
A-3 GR	0.05	0.1	18.12	1.55	0.78	4	7291	172	0.6	17	0.38	0.022	0.083	8.7
average	0.06	0.1276	14.318	1.412	0.556	6	7897.8	204.2	1.72	14.4	0.406	0.0264	0.1058	8.76

The analyses are contained in Appendix 2. As is shown on Table 1, the targeted deposit is moderately alkaline (pH 8.7) and would be considered calcareous based on the reported 14% calcium in the samples.

In order to assess the suitability of this material for use as a soil amendment, the average analyses shown in Table 1 were compared with published analyses for a soil amendment product called Azomite which is presently being marketed by Azomite Mineral Products, Inc. (Azomite International, 2023). The results are summarized in Table 2.

TABLE 2: COMPARISON OF ANTELOPE MINE ANALYSES WITH AZOMITE

	Antelope Mine	Azomite
P2O5%	0.06	0.035
K2O%	0.1276	5.428
Ca%	18.12	3.991
Mg%	1.412	0.854
S%	0.556	0.0000017
Zn ppm	6	13.6
Fe ppm	7897.8	10860
Mn ppm	204.2	530
Cu ppm	1.72	2.178
B ppm	14.4	<10
Na %	0.406	1.324
P%	0.0264	0.015
K%	0.083	4.506

The Antelope Mine samples appear to have a higher content of P2O5, Ca, Mg, and S. The significantly higher content of Ca and S reflect the potential gypsum in the samples which would be expected due to the lacustrine origin of the material.

Mineral Resource Estimates

The surface of the claim seems to be underlain by sediments deposited in Lake Bonneville that the client believes are suitable to be used and marketed as a soil amendment. Four auger holes were drilled along the central part and north of the claim, and the target sandy clay layer was found to be about 5 ft. thick and is underlain by a very fine-grained sand layer.

For an initial resource estimate for the potential soil amendment product within the claims, the following parameters were used:

- The average thickness of the deposit was assumed to be 5 feet thick.
- The unit weight of the material was assumed to be a conservative 95 lbs per ft.³.
- The potential mine area used for resource estimate is shown on figure 5.

The potential mine area was limited on the west by the material site right-of-way, on the south by the highway and fiber optic line right-of-way, and on the east by the ephemeral drainage containing alluvial deposits.



FIGURE 6: ANTELOPE CLAIM SHOWING POTENTIAL MINE AREA

The potential mine area covers 40.9 acres. The initial resource estimate is summarized as follows:

- Unit Weight 95 lbs. per ft.³ = 2,069 tons per acre-ft.

- 40.9 acres x 5 ft. = 204.5 acre-ft.
- 204.5 acre ft. x 2,069 tons per acre-ft = 423,110.5 tons

A conservative estimate of the available resources available within the boundary of the Antelope Mining Claim would be 400,000 tons.

Interpretation and Conclusions

Much of the surface of the claims appears to contain sedimentary deposits the client has targeted for use as a soil amendment. The suitability of this material for this purpose will require testing of the material to verify that plant growth can be enhanced by addition of this material to certain soils. Demonstrating that the chemical composition of this material has a beneficial impact on plant growth will be a step towards identifying the unique characteristics of the material that will enable the deposit to not be considered “common variety” and be developed under the provisions of the mining law on a mining claim. This determination that the material is not “common variety” will need to be made by BLM before a plan of operation can be approved to allow the deposit to be mined as a locatable mineral. The Department of Interior Board of Land Appeals determined that a material used as a soil amendment can be determined locatable if it is a chemical amendment to improve soils (IBLA, 1973). If the targeted sediments If BLM determines that the deposit is “common variety”, development rights to the deposit can be obtained through a mineral material sale.

Recommendations

Testing to demonstrate that adding the material to enhance plant growth will provide evidence to support the marketability of the product which will be necessary to characterize the deposit as a reserve. To better define an estimate of the resources/reserves, it is recommended that a series of auger holes be drilled over the area proposed for development with a grid spacing of about 500 ft., to confirm the thickness of the targeted material. Representative samples from these auger holes should be analyzed to confirm the suitability of the material for use as a soil amendment.

References

- Azomite International, 2023, Azomite Mineral Products, Inc. Certificate of Typical Analysis:
<https://azomiteinternational.com/resources/coa.pdf>
- Hintze, L. F, Davis, F. D., 1992, Geologic map of the Long Ridge quadrangle, Millard County, Utah: Utah Geological Survey Map 141.
- Hintze, L. F., Davis, F. D., 2002, Geologic map of the Tule Valley 30' x 60' quadrangle and parts of the Ely, Fish Springs and Kern Mountains 30' x 60' quadrangles, northwest Millard County, Utah: Utah Geological Survey Map 186.
- IBLA, 1973, 13IBLA256 (1973), US v Bunkowski, (erratum) aff'd, No. 76-182 (D. Nev. Nov. 27, 1978) aff'd, No. 76-182 (D. Nev. Nov. 27, 1978)
- Lavin, M., 2015, Shrub steppe, Sevier Desert (Sevier Lake in background), UT:
<http://www.commons.wikimedia.org>

Oviatt, Charles G., 1989, Quaternary Geology of a Part of the Sevier Desert, Utah: Utah Geological and Mineral Survey Special Studies 70.

Appendix I: Auger Hole Logs

PROJECT: Soil Amendment Prospect Antelope Claim **BORING LOG**

BORING NO. A-1	PROJECT NO.	LOCATION 325199 E 4 338 450N UTM	WGS 84	SHEET 1 OF 1
TIME START	DRILLING CONTRACTOR	DRILLING EQUIPMENT	DATE 5/18/2023	
TIME STOP	DRILLING CREW	DRILLING METHOD Lucan soil auger	SAMPLING METHOD	
TOTAL DEPTH 6.0 ft.	BACKFILL MATERIAL	WATER FIRST ENCOUNTERED	FINAL DEPTH TO WATER	

DEPTH BELOW SURFACE	SAMPLER TYPE	SAMPLE NO.	INCHES DRIVEN/RECOVERED	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
1					0-0.5'	sandy clay with minor gravel at surface
2					0.5-1.5	sandy clay (carbonate) with trace of gypsum
3					1.5-6.0	very fine grained sand some streaks of clay
4						
5						
6						
7						
8						
9						
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						

LOGGED BY: James Kohler OFFICE: _____ DATE: 5/18/2023
www.RiteintheRain.com

PROJECT: Soil Amendments Project - Antelope Claim

BORING LOG

BORING NO. A-2	PROJECT NO.	LOCATION 325 DBSE 4338694N WGS 84 UTM	SHEET 1 OF 1
TIME START	DRILLING CONTRACTOR	DRILLING EQUIPMENT	DATE 5/18/2023
TIME STOP	DRILLING CREW	DRILLING METHOD Lucan hand auger	SAMPLING METHOD
TOTAL DEPTH 5.0 ft	BACKFILL MATERIAL	WATER FIRST ENCOUNTERED	FINAL DEPTH TO WATER

DEPTH BELOW SURFACE	SAMPLER TYPE	SAMPLE NO.	INCHES DRIVEN/RECOVERED	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
0						
1				1.0	1.1	0-1.0 sandy clay (weathered) light brown
2					1.1	1.0-2.0 sandy clay white to buff silty
3					2.0	2.0-2.5 very fine grained sand w/ pebbles at bottom
4					1.1	2.5-3.5 sandy/silty clay with fq sand at bottom
5					1.1	3.5-5.0 vfg sand minor streaks of carbonate, shingle, clayey
6						hole stopped at 5.0 ft due to casing in sand layer
7						
8						
9						
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						

LOGGED BY: James Kohler OFFICE: _____ DATE: 5/18/2023

PROJECT: Soil Amendments Project - Antelope Claim **BORING LOG**

BORING NO. A-3		PROJECT NO.			LOCATION 325247E 4339102N W6584 41N		SHEET 1 OF 1
TIME START		DRILLING CONTRACTOR			DRILLING EQUIPMENT		DATE 5/8/2023
TIME STOP		DRILLING CREW			DRILLING METHOD Jason hand auger		SAMPLING METHOD
TOTAL DEPTH 5.5		BACKFILL MATERIAL			WATER FIRST ENCOUNTERED		FINAL DEPTH TO WATER
DEPTH BELOW SURFACE	SAMPLER TYPE	SAMPLE NO.	INCHES DRIVEN/RECOVERED	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL	
1					///	0-1.5 silty clay - light grey-brown	
2					///	1.5-3.8 - silty clay, light green-grey minor v. sand	
3					///		
4					///	3.8-4.8 very-fine grained sand	
5					///	4.8-5.5 silty clay	
6							
7							
8							
9							
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							

LOGGED BY: James Kohler OFFICE: _____ DATE: 5/8/2023
www.RiteintheRain.com

PROJECT: Soil Amendments Project - Antelope Claim

BORING LOG

BORING NO. A-4	PROJECT NO.	LOCATION 325210E 4339251N	WGS 84 UTM	SHEET 1 OF 1
TIME START	DRILLING CONTRACTOR	DRILLING EQUIPMENT	DATE 5/8/2023	
TIME STOP	DRILLING CREW	DRILLING METHOD Jwan hand Auger	SAMPLING METHOD	
TOTAL DEPTH 5.5 ft	BACKFILL MATERIAL	WATER FIRST ENCOUNTERED	FINAL DEPTH TO WATER	

DEPTH BELOW SURFACE	SAMPLER TYPE	SAMPLE NO.	INCHES DRIVEN/RECOVERED	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL
1					1/1	0-1.5 silty clay light green/gray some moisture, blocky clay
2					1/1	1.5-4.6 silty clay w/ fine-grained sand at bottom
3					1/1	
4					1/1	
5					1/1	4.6-5.5 very fine grained sand brown
6						
7						
8						
9						
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						

LOGGED BY: James Kohler OFFICE: _____ DATE: 5/8/2023

PROJECT: Soil Amendment Project - Antelope Claim

BORING LOG

BORING NO. A-5	PROJECT NO.	LOCATION 325508E 4338667N	665 B4 UTM	SHEET OF
TIME START	DRILLING CONTRACTOR	DRILLING EQUIPMENT	DATE 6/19/2023	
TIME STOP	DRILLING CREW	DRILLING METHOD Juan Hand auger	SAMPLING METHOD	
TOTAL DEPTH 6.0	BACKFILL MATERIAL	WATER FIRST ENCOUNTERED	FINAL DEPTH TO WATER	

DEPTH BELOW SURFACE	SAMPLER TYPE	SAMPLE NO.	INCHES DRIVEN/RECOVERED	BLOWS PER 6 IN.	$\frac{S}{Q}$	LOG OF MATERIAL
1					1.1	0-1.0 sandy clay, light brown weathered(?)
2					1.1	1.0-5.0 silty clay light tan-white friable
3					1.1	
4					1.1	
5					1.1	
6					1.1	5.0-6.0 clay (plastic) green-brown minor sand
7						
8						
9						
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						

LOGGED BY: James Keller OFFICE: _____ DATE: 6/19/2023

Appendix II: Sample Analyses

STUKENHOLTZ LABORATORY, INC.

2924 Addison Avenue East, P.O. Box 353 Twin Falls, ID 83301

208-734-3050 Fax: 208-734-3919 www.stukenholtz.com

COMPOST/MANURE ANALYSIS

422

ADANA LLC, DBA VOLCANIC SAFEGUARD
HOLDINGS
2941 WEST 6100 SOUTH
NEPHI, UT 84648

Tel: 949-246-6844

Report No: 40391

Date Received: 6/15/2023

Date Reported: 6/16/2023

Grower: ADANA LLC

Sample ID: A-1

Nutrients Analyzed	Analysis	lb/Ton
	Dry Wt. Basis	As Received Basis
Total N, (TCN) %	0.15	2.83
Total Carbon %	3.82	72.05
C:N Ratio	25.5:1	
Nitrate-N, ppm	33.00	0.06
P2O5, %	0.059	1.11
K2O, %	0.130	2.45
Calcium, %	9.320	175.78
Magnesium, %	1.380	26.03
Sulfur %	0.490	9.24
Zinc, ppm	5.0	0.009
Iron, ppm	7348.0	13.858
Manganese, ppm	216.0	0.407
Copper, ppm	2.0	0.004
Boron, ppm	12.0	0.023
Sodium, %	0.320	6.04
P, %	0.026	0.5
K, %	0.108	2.0
pH, as received	8.9	
Salts as EC, mmhos/cm	4.9	
Dry Matter, %	94.30	1886

STUKENHOLTZ LABORATORY, INC.

2924 Addison Avenue East, P.O. Box 353 Twin Falls, ID 83301

208-734-3050 Fax: 208-734-3919 www.stukenholtz.com

COMPOST/MANURE ANALYSIS

422

ADANA LLC, DBA VOLCANIC SAFEGUARD
HOLDINGS
2941 WEST 6100 SOUTH
NEPHI, UT 84648

Tel: 949-246-6844

Report No: 40392

Date Received: 6/15/2023

Date Reported: 6/16/2023

Sample ID: A2-24

Grower: ADANA

Nutrients Analyzed	Analysis	lb/Ton
	Dry Wt. Basis	As Received Basis
Total N, (TCN) %	0.14	2.56
Total Carbon %	5.32	97.36
C:N Ratio	38:1	
Nitrate-N, ppm	33.00	0.06
P2O5, %	0.067	1.23
K2O, %	0.230	4.21
Calcium, %	12.650	231.50
Magnesium, %	1.740	31.84
Sulfur %	0.500	9.15
Zinc, ppm	10.0	0.018
Iron, ppm	10233.0	18.726
Manganese, ppm	248.0	0.454
Copper, ppm	3.0	0.005
Boron, ppm	20.0	0.037
Sodium, %	0.590	10.80
P, %	0.029	0.5
K, %	0.191	3.5
pH, as received	8.9	
Salts as EC, mmhos/cm	6.4	
Dry Matter, %	91.50	1830

STUKENHOLTZ LABORATORY, INC.

2924 Addison Avenue East, P.O. Box 353 Twin Falls, ID 83301

208-734-3050 Fax: 208-734-3919 www.stukenholtz.com

COMPOST/MANURE ANALYSIS

422

ADANA LLC, DBA VOLCANIC SAFEGUARD
HOLDINGS
2941 WEST 6100 SOUTH
NEPHI, UT 84648

Tel: 949-246-6844

Report No: 40393

Date Received: 6/15/2023

Date Reported: 6/16/2023

Sample ID: A2-JK

Grower: ADANA

Nutrients Analyzed	Analysis	
	Dry Wt. Basis	lb/Ton As Received Basis
Total N, (TCN) %	0.19	3.66
Total Carbon %	5.13	98.91
C:N Ratio	27:1	
Nitrate-N, ppm	33.00	0.06
P2O5, %	0.061	1.18
K2O, %	0.098	1.89
Calcium, %	13.080	252.18
Magnesium, %	1.310	25.26
Sulfur %	0.440	8.48
Zinc, ppm	6.0	0.012
Iron, ppm	7627.0	14.705
Manganese, ppm	203.0	0.391
Copper, ppm	0.0	0.000
Boron, ppm	13.0	0.025
Sodium, %	0.350	6.75
P, %	0.027	0.5
K, %	0.081	1.6
pH, as received	8.9	
Salts as EC, mmhos/cm	4.1	
Dry Matter, %	96.40	1928

STUKENHOLTZ LABORATORY, INC.

2924 Addison Avenue East, P.O. Box 353 Twin Falls, ID 83301

208-734-3050 Fax: 208-734-3919 www.stukenholtz.com

COMPOST/MANURE ANALYSIS

422

ADANA LLC, DBA VOLCANIC SAFEGUARD
HOLDINGS
2941 WEST 6100 SOUTH
NEPHI, UT 84648

Tel: 949-246-6844

Report No: 40394

Date Received: 6/15/2023

Date Reported: 6/16/2023

Sample ID: A3-GRSF

Grower: ADANA

Nutrients Analyzed	Analysis	lb/Ton
	Dry Wt. Basis	As Received Basis
Total N, (TCN) %	0.19	3.72
Total Carbon %	7.75	151.90
C:N Ratio	40.8:1	
Nitrate-N, ppm	45.00	0.09
P2O5, %	0.063	1.23
K2O, %	0.080	1.57
Calcium, %	18.440	361.42
Magnesium, %	1.080	21.17
Sulfur %	0.570	11.17
Zinc, ppm	5.0	0.010
Iron, ppm	6990.0	13.700
Manganese, ppm	182.0	0.357
Copper, ppm	3.0	0.006
Boron, ppm	10.0	0.020
Sodium, %	0.390	7.64
P, %	0.028	0.5
K, %	0.066	1.3
pH, as received	8.4	
Salts as EC, mmhos/cm	4.7	
Dry Matter, %	98.00	1960

STUKENHOLTZ LABORATORY, INC.

2924 Addison Avenue East, P.O. Box 353 Twin Falls, ID 83301

208-734-3050 Fax: 208-734-3919 www.stukenholtz.com

COMPOST/MANURE ANALYSIS

422

ADANA LLC, DBA VOLCANIC SAFEGUARD
HOLDINGS
2941 WEST 6100 SOUTH
NEPHI, UT 84648

Tel: 949-246-6844

Report No: 40395

Date Received: 6/15/2023

Date Reported: 6/16/2023

Sample ID: GR-RB42

Grower: ADANA

Nutrients Analyzed	Analysis	lb/Ton
	Dry Wt. Basis	As Received Basis
Total N, (TCN) %	0.20	3.55
Total Carbon %	7.66	135.89
C:N Ratio	38.3:1	
Nitrate-N, ppm	33.00	0.06
P2O5, %	0.033	0.59
K2O, %	0.061	1.08
Calcium, %	17.630	312.76
Magnesium, %	0.770	13.66
Sulfur %	0.480	8.52
Zinc, ppm	3.0	0.005
Iron, ppm	4986.0	8.845
Manganese, ppm	115.0	0.204
Copper, ppm	0.3	0.001
Boron, ppm	10.0	0.018
Sodium, %	0.260	4.61
P, %	0.015	0.3
K, %	0.051	0.9
pH, as received	8.7	
Salts as EC, mmhos/cm	2.4	
Dry Matter, %	88.70	1774

STUKENHOLTZ LABORATORY, INC.

2924 Addison Avenue East, P.O. Box 353 Twin Falls, ID 83301

208-734-3050 Fax: 208-734-3919 www.stukenholtz.com

COMPOST/MANURE ANALYSIS

422

ADANA LLC, DBA VOLCANIC SAFEGUARD
HOLDINGS
2941 WEST 6100 SOUTH
NEPHI, UT 84648

Tel: 949-246-6844

Report No: 40396

Date Received: 6/15/2023

Date Reported: 6/16/2023

Grower: ADANA

Sample ID: A3-GR

Nutrients Analyzed	Analysis	
	Dry Wt. Basis	lb/Ton As Received Basis
Total N, (TCN) %	0.14	2.45
Total Carbon %	7.19	125.68
C:N Ratio	51.4:1	
Nitrate-N, ppm	34.00	0.06
P2O5, %	0.050	0.87
K2O, %	0.100	1.75
Calcium, %	18.120	316.74
Magnesium, %	1.550	27.09
Sulfur %	0.780	13.63
Zinc, ppm	4.0	0.007
Iron, ppm	7291.0	12.745
Manganese, ppm	172.0	0.301
Copper, ppm	0.6	0.001
Boron, ppm	17.0	0.030
Sodium, %	0.380	6.64
P, %	0.022	0.4
K, %	0.083	1.5
pH, as received	8.7	
Salts as EC, mmhos/cm	4.7	
Dry Matter, %	87.40	1748