

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: <b>Enterprise Field Services, LLC</b>	OGRID: <b>151618</b>
Contact Name: <b>Thomas Long</b>	Contact Telephone: <b>505-599-2286</b>
Contact email: <b>tjlong@eprod.com</b>	Incident # (assigned by OCD): <b>NCS1925348083</b>
Contact mailing address: <b>614 Reilly Ave, Farmington, NM 87401</b>	

### Location of Release Source

Latitude **36.928810** Longitude **-108.265480** (NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>Ute Mountain J#1</b>	Site Type <b>Natural Gas Gathering Pipeline</b>
Date Release Discovered: <b>08/21/2019</b>	Serial Number (if applicable): <b>N/A</b>

Unit Letter	Section	Township	Range	County
<b>H</b>	<b>1</b>	<b>31N</b>	<b>14W</b>	<b>San Juan</b>

Surface Owner:  State  Federal  Tribal  Private (Name: **Ute Mountain Tribe**)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): <b>10-15 BBLs</b>	Volume Recovered (bbls): <b>None</b>
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): <b>&lt; 1 MCF</b>	Volume Recovered (Mcf): <b>None</b>
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

**Cause of** On August 21, 2019, Enterprise technicians observed dead vegetation along the Ute Mountain J#1 right-of-way. The technicians confirmed a natural gas release with field instrumentation. The release is located in a small ephemeral wash (Blue Line on a USGS Topo). No liquids have been observed on the ground surface. The pipeline was isolated, depressurized, locked and tagged out. Remediation was completed on October 14, 2019. The final excavation was oblong in shape and measured approximately 70 feet long by 30 feet wide by approximately 5 feet deep. Approximately 730 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. Upon approvals of permits, the release site was reclaimed per Ute Mountain Tribal and United States Army Corp of Engineers specifications in the spring of 2020. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

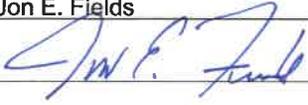
## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

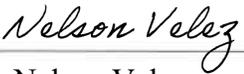
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jon E. Fields Title: Director, Environmental  
 Signature:  Date: 9/17/2020  
 email: jefields@eprod.com Telephone: (713) 381-6684

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 05/19/2022  
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv



Souder, Miller & Associates ♦ 401 W. Broadway ♦ Farmington, NM 87401  
(505) 325-7535 ♦ (800) 519-0098 ♦ fax (505) 326-0045

## Closure Report

Property:

**Ute Mountain J #1 Pipeline Release  
Unit Letter K, Section 1, T31N, R14W  
San Juan County, New Mexico  
Latitude 36.928810°, Longitude -108.265480°**

**August 6, 2020**



**Prepared For:**  
Enterprise Field Services, LLC  
San Juan Basin  
614 Reilly Avenue  
Farmington, NM 87401

**Prepared By:**  
Souder, Miller & Associates  
401 West Broadway  
Farmington, NM 87401  
(505) 325-7535



**Ute Mountain J #1 Pipeline Release  
Final Remediation Report  
San Juan County, New Mexico**

**August 6, 2020  
SMA #5127965 BG18**

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**ATTACHMENTS:**

**Figures:**

- Figure 1: Vicinity Map
- Figure 2: Site Location Map
- Figure 3: Sample Location Map

**Tables:**

- Table 2: Closure Criteria Justification
- Table 3: Summary of Sample Results

**Appendices:**

- Appendix A: Photographic Documentation
- Appendix B: Field Notes
- Appendix C: Executed C-138 Solid Waste Acceptance Form
- Appendix D: Laboratory Analytical Reports
- Appendix E: Approved Engineered Reclamation and Revegetation Plan and Correspondence
- Appendix F: Ute Mountain Ute Tribe Standards for Spill Clean-up and Reclamation (2018)

Ute Mountain J #1 Pipeline Release  
 Final Remediation Report  
 San Juan County, New Mexico

August 6, 2020  
 SMA #5127965 BG18

## 1.0 Executive Summary

### 1.1 Site Description and Background

<b>Operator:</b>	Enterprise Field Services, LLC (Enterprise)
<b>Site Name:</b>	Ute Mountain J #1 Pipeline Release
<b>Location:</b>	Latitude 36.928810°, Longitude -108.265480° Unit Letter K, Section 1, T31N, R14W San Juan County, New Mexico
<b>Property:</b>	Ute Mountain Ute Tribal Land
<b>Regulatory:</b>	Ute Mountain Ute Tribe

On August 23, 2019, Souder, Miller & Associates (SMA) was contacted by an Enterprise field representative regarding a hydrocarbon release associated with the Ute Mountain J #1 Pipeline.

The Ute Mountain J #1 Pipeline release is located four (4) miles west of La Plata, New Mexico on Ute Mountain Ute Tribal land at an elevation of approximately 6,004 feet above mean sea level (amsl). A topographic map depicting the location of the site is included as Figure 1, and a site vicinity map is included as Figure 2.

### 1.2 Project Outcome

The project outcome was designed to ensure closure activities reduced constituents of concern (COC) concentrations in the on-site soils to below the applicable Ute Mountain Ute Tribe standards for spill clean-up and reclamation (2018).

## 2.0 Closure Criteria

The Ute Mountain J #1 is subject to regulatory oversight by the Ute Mountain Ute Tribe. As such, all contaminants of concern (COCs) in soil or groundwater must not exceed the concentrations listed in the Ute Mountain Ute Tribe Standards for Spill Clean-up and Reclamation (2018) (attached in Appendix F).

Ute Mountain J #1 Pipeline Release  
Final Remediation Report  
San Juan County, New Mexico

August 6, 2020  
SMA #5127965 BG18

### 3.0 On-site Activities

Beginning October 14, 2019, remediation and corrective action activities were conducted by Sierra Oilfield Services, Inc., with SMA providing environmental oversight. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp and a Dexsil® PetroFLAG TPH Analyzer. The walls and base were excavated until field screening results indicated that the Ute Mountain Ute Spill Clean-up and Reclamation Standards (2018) had been met. Photographs of site activities are documented in Appendix A, and field notes are included in Appendix B.

#### **First Sampling Event**

On October 14, 2019 SMA collected eighteen (18) discreet samples (S1-S18) along the side walls and throughout the base of the excavation. One (1) background sample was collected upgradient to the northwest of the excavation. All samples were analyzed for the full list of constituents listed in the Clean-up and Reclamation Standards.

#### **Second Sampling Event**

As requested by Enterprise personnel, on November 15, 2019 SMA returned to collect two (2) additional background samples to the north and south of the excavation within the natural drainage. These samples were analyzed for electrical conductivity and arsenic only.

Soil samples were collected in laboratory supplied containers, labeled, and stored on ice in a cooler. The samples were transferred to Green Analytical Laboratories Farmington, New Mexico office under proper chain-of-custody procedure. Laboratory reports and executed chains-of-custody are included in Appendix D.

### 4.0 Findings and Recommendations

On August 21, 2019, a release of natural gas was identified on the Ute Mountain J #1 pipeline. Enterprise verified the release. Enterprise initiated activities to facilitate the removal of the pipeline and remediate petroleum hydrocarbon and inorganic impacts resulting from the release.

- The primary objective of the closure activities was to reduce COC concentrations in the soils to below the applicable Ute Mountain Ute Spill Clean-up and Reclamation Standards (2018).
- A total of 18 discreet samples were collected from the walls and floor of the excavation. A total of three (3) background samples were collected. Based on laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the Ute Mountain Ute Spill Clean-up and Reclamation Standards

Ute Mountain J #1 Pipeline Release  
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with the exception of electrical conductivity in S7, S12, and S14. All samples collected, including background samples, exceeded the standard for arsenic.

- A total of approximately 730 cubic yards of hydrocarbon impacted soil was transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation (Appendix C).
- In May 2020, work as described in the approved engineered reclamation and revegetation plan was completed by Sierra Oilfield Services, Inc. Correspondence of approved engineered reclamation and revegetation plan can be found in Appendix E.
- SMA recommends no further action.

### 5.0 Closure and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the San Juan Basin in New Mexico.

If there are any questions regarding this report, please contact either Ashley Maxwell or Shawna Chubbuck at 505-325-7535.

Submitted by:  
SOUDER, MILLER & ASSOCIATES

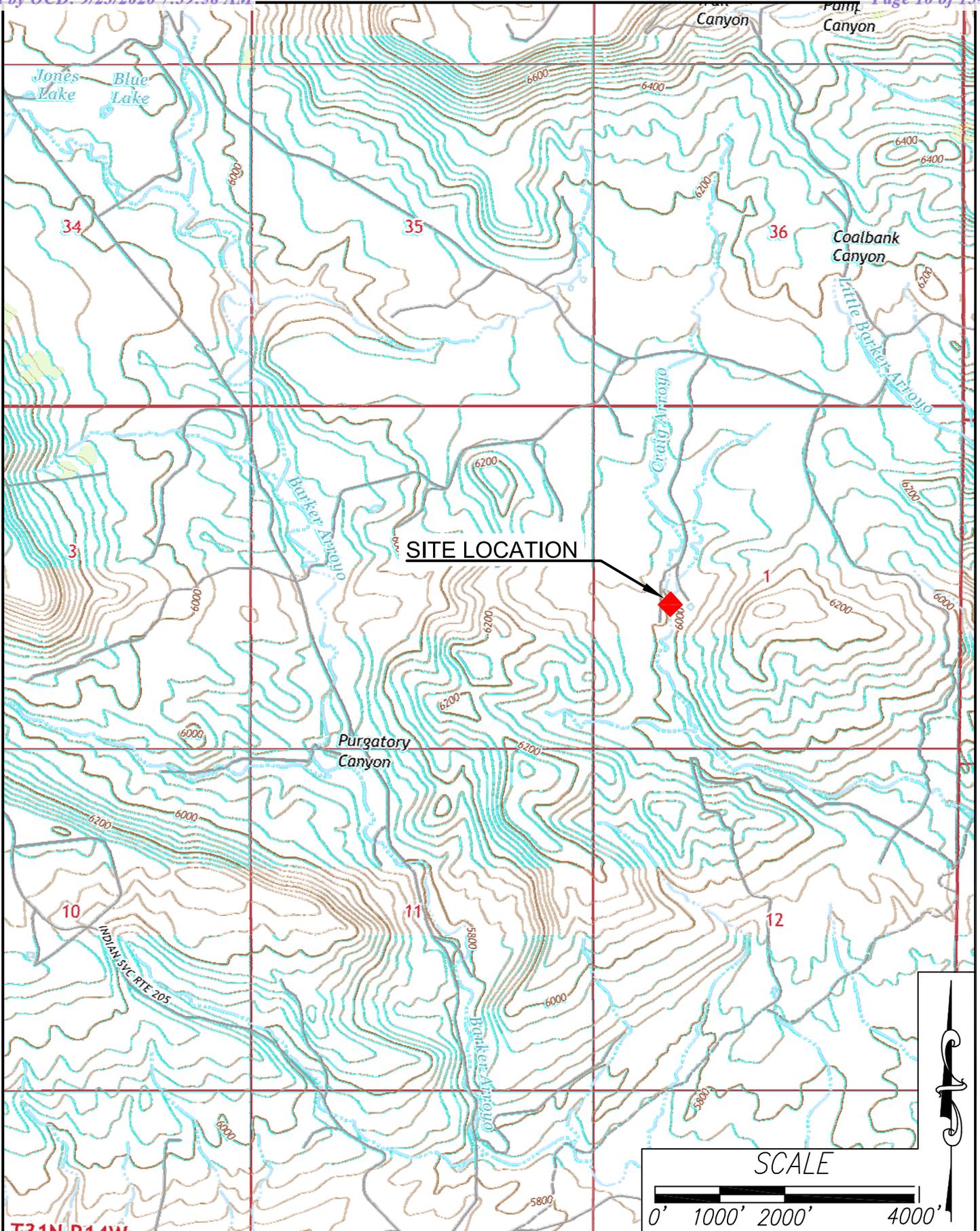
Reviewed by:



Ashley Maxwell  
Project Scientist

Shawna Chubbuck  
Senior Scientist

# FIGURES



Souder, Miller & Associates  
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 www.soudermiller.com  
 Serving the Southwest & Rocky Mountains

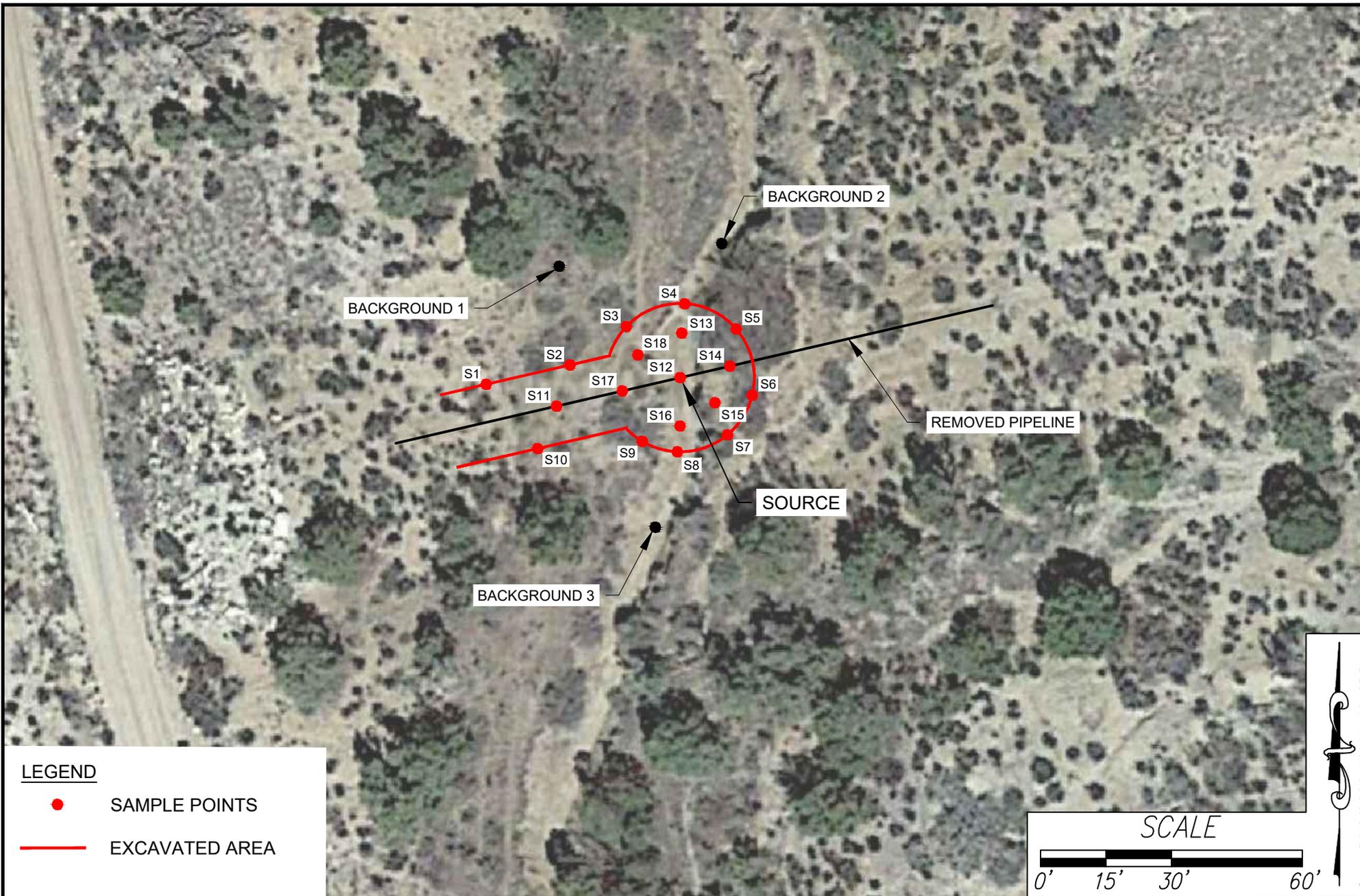
ENTERPRISE	FARMINGTON, NEW MEXICO	Designed AM	Drawn DJB	Checked RSA
<b>VICINITY MAP</b>				
<b>UTE MOUNTAIN J #1 RELEASE</b>				
<b>SECTION 1, T31N, R14W</b>				
SAN JUAN COUNTY				
				Date: October 2019
				Scale: Horiz: 1" = 2000' Vert: NA
				Project No: 5127965
				<b>Figure 1</b>



RELEASE SITE



 <p><b>SMA</b> Engineering Environmental Surveying</p>	<p>Souder, Miller &amp; Associates 401 West Broadway Avenue Farmington, NM 87401-5907 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 326-0045 www.soudermiller.com Serving the Southwest &amp; Rocky Mountains</p>		<p>ENTERPRISE</p>	<p>FARMINGTON, NEW MEXICO</p>	<p>Designed AM</p>	<p>Drawn DJB</p>	<p>Checked RSA</p>
	<p><b>SITE MAP</b> UTE MOUNTAIN J #1 RELEASE SECTION 1, T31N, R14W</p>			<p>Date: October 2019</p>			
				<p>Scale: Horiz: 1" = 200' Vert: NA</p>			
	<p>SAN JUAN COUNTY</p>			<p>Project No: 5127965</p>			
			<p>Figure 2</p>				



**LEGEND**

- SAMPLE POINTS
- EXCAVATED AREA



THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Date: **January 2020**

Scale: Horiz: 1" = 30'

Vert: N/A

Project No: 5127965

Figure 3

**SOUDER, MILLER & ASSOCIATES**

401 West Broadway Avenue  
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FARMINGTON, NEW MEXICO

**SAMPLE LOCATION MAP**  
**UTE MOUNTAIN J #1 RELEASE**  
**SECTION 1, T31N, R14W**

# TABLES

TABLE 1 SUMMARY OF LABORATORY ANALYTICAL RESULTS

Enterprise Products Operating, LLC  
Ute Mountain J #1 Pipeline Release

Sample ID	Sample ID																		Standards for Spill Clean-up and Reclamation Ute Mountain Ute Tribe	Units				
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18			Background	Background #2	Background #3	
Sample Date	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	10/14/19	11/22/19	11/22/19		
Sample Type	Discreet	Discreet	Discreet	Discreet	Discreet	Discreet	Discreet	Discreet	Discreet	Discreet	Discreet	Discreet												
Location	Side Wall	Base	Surface	North Wash	South Wash																			
Sample Depth	3	4	1	3	4	3	5	5	1	4	5	2	4	4	4	5	5	5	0.5'	2	3			
<b>Organic Compounds in Soils</b>																								
TPH-GRO C6-C10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	--	--	500	mg/Kg
TPH-DRO >C10-C28	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	13.7	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	--	--		
TPH-MRO EXT DRO >C28-C36	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	--	--		
Benzene	<0.050	<0.050	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	0.17	mg/Kg
Toluene	<0.050	<0.050	0.086	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	--	--	85	mg/Kg
Ethylbenzene	<0.050	<0.050	0.068	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	--	--	100	mg/Kg
Xylenes (Total)	<0.150	<0.150	0.818	<0.150	<0.150	<0.150	<0.150	<0.150	0.254	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	0.221	<0.150	--	--	175	mg/Kg	
Acenaphthene	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	--	--	1,000	mg/Kg
Anthracene	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	1,000	mg/Kg
Benz(a)anthracene	<0.008	<0.008	0.010	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	--	--	0.22	mg/Kg
Benzo(b)fluoranthene	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	--	--	0.22	mg/Kg
Benzo(k)fluoranthene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	2.2	mg/Kg
Benzo(a)pyrene	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	--	--	0.022	mg/Kg
Chrysene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	22	mg/Kg
Dibenzo(a,h)anthracene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	--	--	0.022	mg/Kg
Fluoranthene	<0.006	<0.006	0.009	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	--	--	1,000	mg/Kg
Fluorene	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.019	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	--	--	1,000	mg/Kg
Ideno(1,2,3,c,d)pyrene	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	0.22	mg/Kg
Naphthalene	0.033	0.038	0.119	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	0.006	<0.014	<0.014	<0.014	<0.014	<0.014	0.095	<0.014	--	--	23	mg/Kg	
Pyrene	<0.010	<0.010	<0.007	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	1,000	mg/Kg
<b>Inorganics in Soils</b>																								
Electrical Conductivity	0.537	0.810	0.688	0.922	0.822	0.607	5.320	1.010	0.961	1.050	0.727	2.470	1.020	2.060	0.889	0.937	1.040	1.010	0.358	1.120	0.410	<1.1xbackground	mmhos/cm	
Sodium Adsorption Ratio	0.98	0.98	0.59	0.49	1.09	0.70	11.1	0.89	1.82	0.70	0.65	6.01	1.18	1.75	1.91	1.39	1.47	1.03	0.19	--	--	<12		
pH	7.65	7.65	7.69	7.75	7.80	7.92	7.92	7.49	7.75	7.71	7.71	7.77	7.61	7.57	7.70	7.62	7.70	7.71	7.37	--	--	6.0-9.0		
<b>Metals in Soils</b>																								
Arsenic	19.9	5.02	5.13	4.49	11.9	10.7	18.0	3.46	5.28	4.89	6.02	6.93	7.79	9.28	9.59	6.97	7.70	4.50	3.20	14.1	11.1	0.39	mg/kg	
Barium	238	165	96	124	156	236	283	141	165	140	187	149	141	222	209	211	89.6	109	158	--	--	15,000	mg/kg	
Cadmium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	--	--	70	mg/kg
Chromium (III), (VI)	6.47	5.47	<5.00	<5.00	8.38	6.87	7.08	5.14	6.20	5.92	7.48	7.04	7.78	7.83	8.34	9.44	5.95	8.73	5.62	--	--	120,000**	mg/kg	
Chromium (VI)	6.47	5.47	<5.00	<5.00	8.38	6.87	7.08	5.14	6.20	5.92	7.48	7.04	7.78	7.83	8.34	9.44	5.95	8.73	5.62	--	--	23	mg/kg	
Copper	24.8	19.8	9.74	10.8	23.7	25.1	33.7	12.1	16.2	15.1	22.9	15.8	18.7	32.7	20.7	19.5	10.7	18.0	13.4	--	--	3,100	mg/kg	
Lead	13	11.9	<10.0	<10.0	12.6	12.7	17.3	<10.0	10.8	10.1	13.2	11.7	<10.0	12.5	<10.0	11.4	<10.0	11.7	11.0	--	--	400	mg/kg	
Mercury	<0.0433	<0.0437	<0.0425	<0.0435	<0.0469	<0.0460	<0.0465	<0.0416	<0.0438	<0.0439	<0.0427	<0.0417	<0.0413	<0.0419	<0.0425	<0.0427	<0.0436	<0.0412	<0.0408	--	--	23	mg/kg	
Nickel	12.3	8.74	5.76	6.01	12.2	12	15.1	6.75	8.24	7.79	10	<20.0	9.72	12.5	13.4	9.93	5.45	7.72	6.95	--	--	1,600	mg/kg	
Selenium	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	--	--	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	--	--	390	mg/kg
Zinc	54.6	41.1	30.2	29.9	57.6	52.2	79.7	32.0	38.4	37.7	47.5	42.4	10.2	58.9	49.5	39.3	34.8	47.1	37.0	--	--	23,000	mg/kg	

# APPENDIX A PHOTOGRAPHIC DOCUMENTATION

## Site Photographs

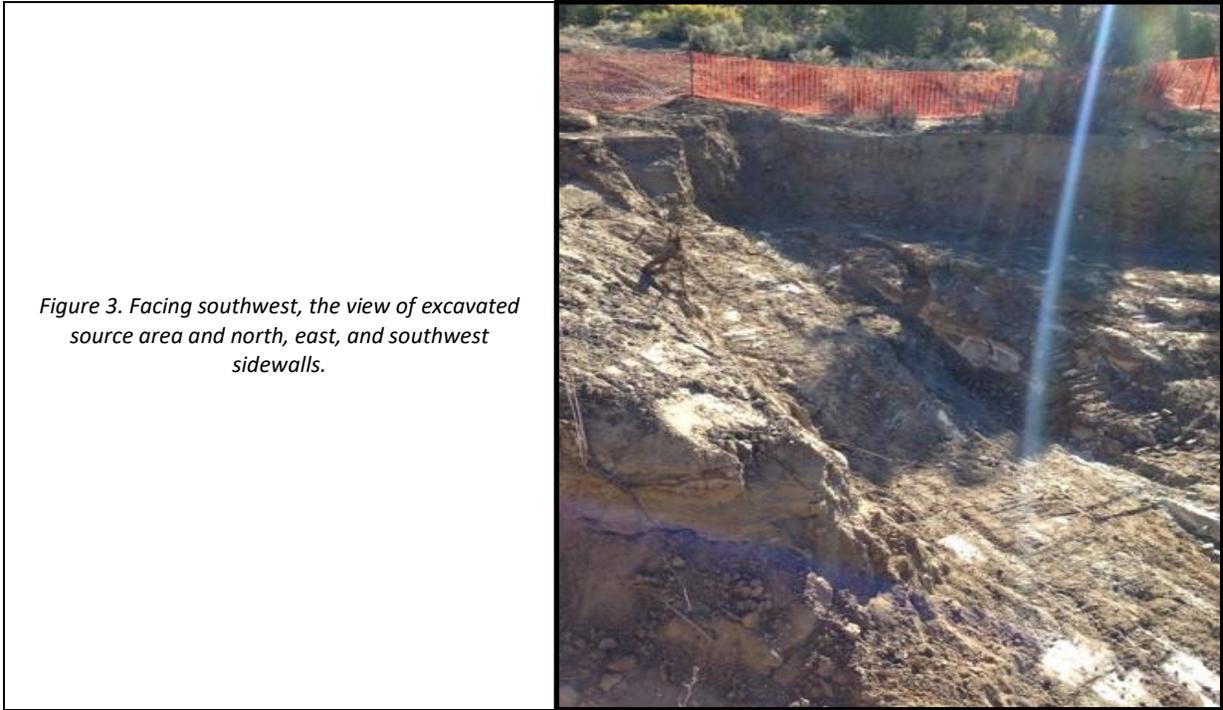
Figure 1. View of initial excavation to expose pipeline.



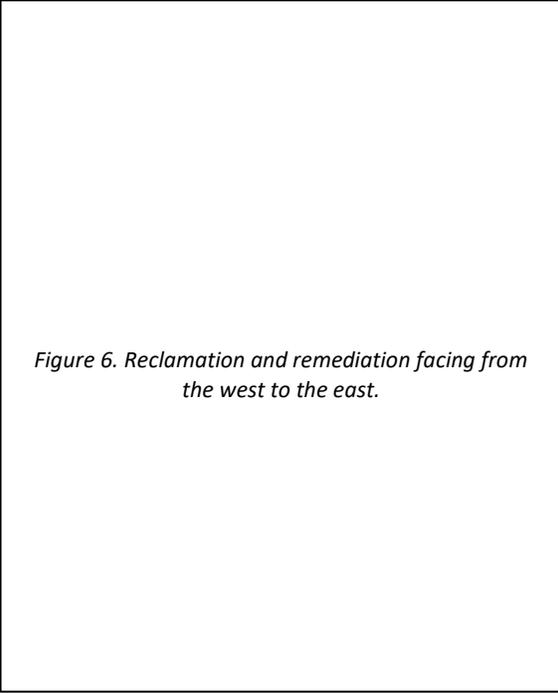
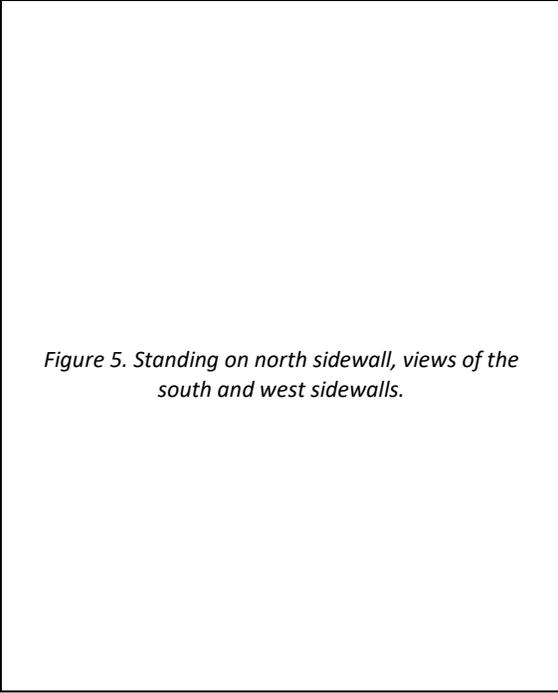
Figure 2. Excavation activity following the removal of the pipeline.



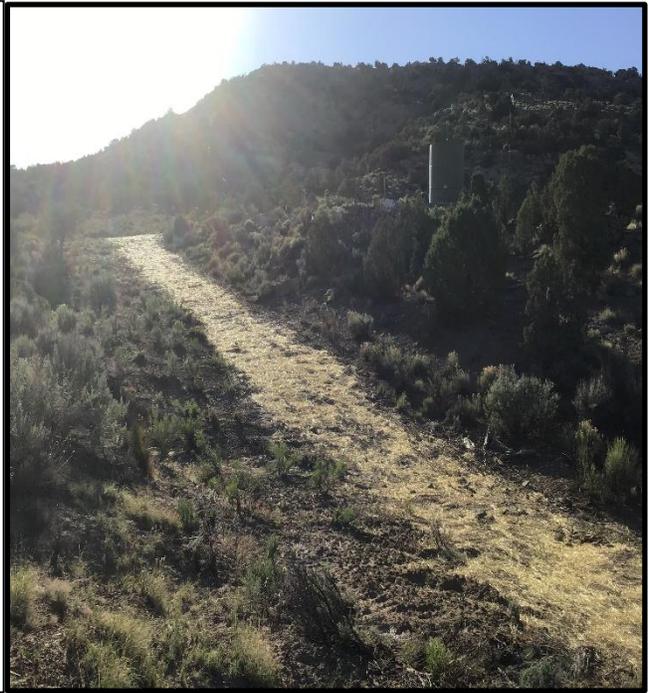
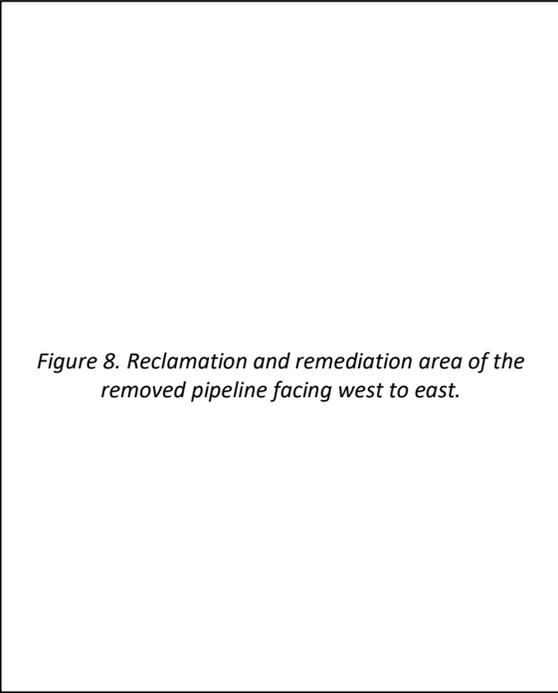
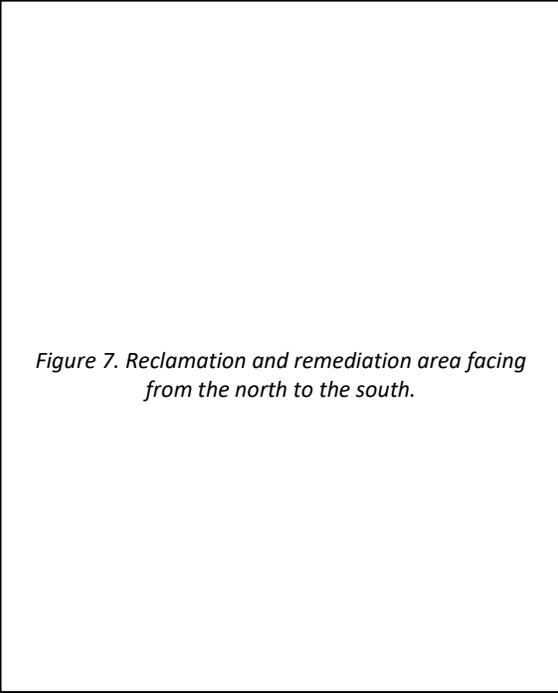
### Site Photographs



### Site Photographs



### Site Photographs



## Site Photographs

*Figure 9. Closer view of reclamation and remediation facing from the west to the east.*



# APPENDIX B FIELD NOTES

10f2

### Field Screening Form

Location Name				Date			
Ute Mtn Ute J#1				10-14-19			
Location Name	Description	Depth (Feet BGS)	Time Collected	PID Reading (ppm)	Time Screened	PetroFLAG Reading	Time Screened
S1	NW SW	3	9:42				
S2	NW SW	4	9:45				
S3	Wash N	1	9:47				
S4	<del>W</del> NESW	3	9:48				
S5	NE / E SW	4	9:49				
S6	W / SE SW	3	9:50				
S7	SE SW	4	9:52				
S8	SE SW	5	9:53				
S9	Wash S	1	9:55				
S10	South W SW	4	9:56				
S11	W SW	5	9:57				
Notes:							



### Field Screening Form

Location Name				Date			
UTC Mtn UTC J #1				10-14-19			
Location Name	Description	Depth (Feet BGS)	Time Collected	PID Reading (ppm)	Time Screened	PetroFLAG Reading	Time Screened
S12	Base Source		9:58				
S13	Base NE		9:59				
S14	Base E		10:01				
S15	Base SE		10:03				
S16	Base Wash		10:05				
S17	Base SW		10:06				
S18	Base W		10:08				
Back ground	50' N		10:17				
Notes:							



### Field Screening Form

Location Name				Date			
Ute Mtn J. # 1				10-9-2019			
Location Name	Description	Depth (Feet BGS)	Time Collected	PID Reading (ppm)	Time Screened	(DRO) PetroFLAG Reading	Time Screened
S 10	Base (W)	~ 12	9:20	41.0	10:41	46	9:53
S 11	Base (C)	~ 12	9:20	404	10:40	550	9:41
S 12	Base (E)	~ 12	9:21	38.1	10:41	241	9:54
S 13	West (N1)	2	9:21	17.7	10:42	200	10:06
S 14	West (N2)	6	9:22	24.2	10:42	194	10:10
S 15	West (S1)	2	9:22	18.9	10:44	172	10:14
S 16	West (S2)	6	9:23	19.8	10:44	193	10:21
S 17	East (N)	4	9:24	28.1	10:45	82	9:46
S 18	East (S)	4	9:24	28.4	10:40	1026	9:42
S 19	West (W)	3	9:26	18.3	10:50	170	10:28
S 20	East (E)	3	9:27	19.0	10:51	412	9:50
S 21	Southeast-1	4	12:25	—	—	824	12:37

strong odor

strong odor

Notes: Onsite at 9:00. JSA, start sampling freshly exposed walls + base. Still hot on base and eastern portion.  
 11:15 - Hauling trucks arrive. (3)

11:30 - Hit some grey/dark colored soils  on southeast side of wash. Follows the dead vegetation line. → strong odor.

### Field Screening Form

Location Name				Date			
Ute Mtn J# 1				10.9.2019			
Location Name	Description	Depth (Feet BGS)	Time Collected	PID Reading (ppm)	Time Screened	(ORO) PetroFLAG Reading	Time Screened
S 22	Southeast (2)	4	12:26	—	—	641	12:38
S 23	East (E)	4	12:28	—	—	116	12:40
S 24	Southeast(3)	5	13:47	—	—	90	14:05
S 25	Southeast (4)	5	13:49	—	—	85	14:06
S 26	Southeast (5)	5	14:00	—	—	235	14:24
S 27	South (wash)	6	14:02	—	—	347	14:25
S 28	South wall	5	9:30	—	—	209	9:54
S 29	South Wash	6	9:36	—	—	229	9:54
S 30	South west wall	6	9:31	—	—	120	9:55

Notes: 13:00 - Instructed crew to keep digging SE area to impacted vegetation (bushes).



Jacob Bachco  
 SDS-402-84045  
 (Enterprise on-site)

Calibration

Petro SCS Field Screening Form

Location Name: UTE MTN T #1 Date: 9-18-19

Location Name	Description	Depth (Feet BGS)	Time Collected	PID Reading (ppm)	Time Screened	PetroFLAG Reading	Time Screened
Sc 1	BASE Atchump	10'	12:22	41.5	12:44	1483	12:56
Sc 2	BASE West	9'	12:27	78.4	12:44	1586	12:57
Sc 3	North wall	2'-10"	13:07	2-3	13:55	757	14:02
Sc 4	North South wall	2'-10"	13:09	9.7	13:56	1232	14:03
Sc 5	North wall	3'-9"	13:11	0.2	13:56	77	14:04
Sc 6	South wall	3'-9"	13:13	0.0	13:57	167	14:05
Sc 7	East slope	2'-8"	13:15	9.7	13:58	622	14:05
Sc 8	West slope	2'-9"	13:17	5.4	13:58	199	14:06

Notes: Onsite 11:30 SIERRA oil field  
 Offsite 14:30 No LAB samples taken!  
 SIERRA Offsite 13:00 

APPENDIX C  
EXECUTED C-138  
SOLID WASTE ACCEPTANCE

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

97057-1039 Form C-138  
Revised 08/01/11  
\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. Generator Name and Address:  
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:  
Ute Mountain J#1  
AFE: N43653  
PM: Chad Timmerman  
Pay Key: RB21200

2. Location of Material (Street Address, City, State or ULSTR):  
UL K Section 1 T31N R14W; 36.928810, -108.26548

4. Source and Description of Waste: Oct. 2019  
Source: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.  
Description: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.  
Estimated Volume 50 yd<sup>3</sup> bbls Known Volume (to be entered by the operator at the end of the haul) 730 yd<sup>3</sup> bbls

**GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long *Thomas Long*, representative or authorized agent for Enterprise Products Operating do hereby  
Generator Signature  
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988  
regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency  Monthly  Weekly  Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description in Box 4)

**GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS**

I, Thomas Long *Thomas Long* 10-3-19, representative for Enterprise Products Operating authorize to complete  
Generator Signature  
the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that  
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples  
have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results  
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of  
19.15.36 NMAC.

5. Transporter: Sierra

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility \* Permit #: NM01-0011  
Address of Facility: Hill Top, NM

Method of Treatment and/or Disposal:

Evaporation  Injection  Treating Plant  Landfarm  Landfill  Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree

TITLE: Enviro Manager

DATE: 10/7/19

SIGNATURE: *Greg Crabtree*  
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615

# APPENDIX D LABORATORY ANALYTICAL REPORTS



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
www.greenanalytical.com

22 October 2019

Ashley Maxwell  
Souder Miller & Associates  
401 West Broadway  
Farmington, NM 87410  
RE: Table 910

Enclosed are the results of analyses for samples received by the laboratory on 10/14/19 12:40. This data replaces the previous report (See case narrative). The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jenna Emerick'.

Jenna Marie Emerick For Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
S1	1910150-01	Solid	10/14/19 09:42	10/14/19 12:40	
S2	1910150-02	Solid	10/14/19 09:45	10/14/19 12:40	
S3	1910150-03	Solid	10/14/19 09:47	10/14/19 12:40	
S4	1910150-04	Solid	10/14/19 09:48	10/14/19 12:40	
S5	1910150-05	Solid	10/14/19 09:49	10/14/19 12:40	
S6	1910150-06	Solid	10/14/19 09:50	10/14/19 12:40	
S7	1910150-07	Solid	10/14/19 09:52	10/14/19 12:40	
S8	1910150-08	Solid	10/14/19 09:53	10/14/19 12:40	
S9	1910150-09	Solid	10/14/19 09:55	10/14/19 12:40	
S10	1910150-10	Solid	10/14/19 09:56	10/14/19 12:40	
S11	1910150-11	Solid	10/14/19 09:57	10/14/19 12:40	
S12	1910150-12	Solid	10/14/19 09:58	10/14/19 12:40	
S13	1910150-13	Solid	10/14/19 09:59	10/14/19 12:40	
S14	1910150-14	Solid	10/14/19 10:01	10/14/19 12:40	
S15	1910150-15	Solid	10/14/19 10:03	10/14/19 12:40	
S16	1910150-16	Solid	10/14/19 10:05	10/14/19 12:40	
S17	1910150-17	Solid	10/14/19 10:06	10/14/19 12:40	
S18	1910150-18	Solid	10/14/19 10:08	10/14/19 12:40	
Background	1910150-19	Solid	10/14/19 10:17	10/14/19 12:40	

Green Analytical Laboratories

Jenna Marie Emerick For Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



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Souder Miller & Associates 401 West Broadway Farmington NM, 87410	Project: Table 910 Project Name / Number: Ute Mountain Ute J#1 Project Manager: Ashley Maxwell	<b>Reported:</b> 10/22/19 17:25
---	--	------------------------------------

This RE report is revised and replaces the original draft report dated 10/18/19. This final report contains the complete analysis.

Green Analytical Laboratories

Jenna Marie Emerick For Debbie Zufelt, Reports Manager

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S1

1910150-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	92.4			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<10.8	10.8	2.09	mg/kg dry	10	10/21/19 16:41	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	47.8	0.100	0.013	mg/L	1	10/18/19 18:03	EPA200.7		JDA
Conductivity	537			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	24.6	0.100	0.019	mg/L	1	10/18/19 18:03	EPA200.7		JDA
pH	7.73			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	0.55			No Unit	1	10/18/19 18:03	Calculation		JDA
Sodium	18.8	1.00	0.367	mg/L	1	10/18/19 18:03	EPA200.7		JDA

**Total Metals by ICP**

Barium	238	5.00	0.049	mg/kg dry	100	10/22/19 10:59	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 10:59	6010B		JDA
Chromium	6.47	5.00	0.075	mg/kg dry	100	10/22/19 10:59	6010B		JDA
Copper	24.8	5.00	0.117	mg/kg dry	100	10/22/19 10:59	6010B		JDA
Lead	13.0	10.0	0.576	mg/kg dry	100	10/22/19 10:59	6010B		JDA
Nickel	12.3	5.00	0.213	mg/kg dry	100	10/22/19 10:59	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 10:58	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 10:59	6010B		JDA
Zinc	54.6	10.0	0.165	mg/kg dry	100	10/22/19 10:59	6010B		JDA

**Total Metals by ICPMS**

Arsenic	19.9	1.00	0.214	mg/kg dry	1000	10/22/19 11:28	6020A	M5	JDA
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**Total Mercury by CVAA**

Mercury	<0.0433	0.0433	0.0180	mg/kg dry	200	10/18/19 15:01	EPA7471		LLG
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Green Analytical Laboratories

Jenna Marie Emerick For Debbie Zufelt, Reports Manager

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S1

## 1910150-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 16:52	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 14:43	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 14:43	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 14:43	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 14:43	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 14:43	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 73.3-129 10/17/19 14:43 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/16/19 18:49	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/16/19 18:49	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/16/19 18:49	8015B		MS

Surrogate: 1-Chlorooctane 82.1 % 41-142 10/16/19 18:49 8015B MS

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147 10/16/19 18:49 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	0.033	0.040	0.014	mg/kg	40	10/21/19 17:17	8270C	J	MS
2-Methylnaphthalene*	0.047	0.040	0.008	mg/kg	40	10/21/19 17:17	8270C		MS
1-Methylnaphthalene	0.034	0.040	0.007	mg/kg	40	10/21/19 17:17	8270C	J	MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:17	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:17	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:17	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:17	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 17:17	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:17	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:17	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:17	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 17:17	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 17:17	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 17:17	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 17:17	8270C		MS

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S1

1910150-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:17	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 17:17	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:17	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:17	8270C		MS
Surrogate: Nitrobenzene-d5			61.7 %	10.8-154		10/21/19 17:17	8270C		MS
Surrogate: 2-Fluorobiphenyl			62.8 %	16.9-156		10/21/19 17:17	8270C		MS
Surrogate: Terphenyl-d14			65.0 %	27-170		10/21/19 17:17	8270C		MS

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S2

## 1910150-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	91.5			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<10.9	10.9	2.11	mg/kg dry	10	10/21/19 17:35	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	82.0	0.100	0.013	mg/L	1	10/18/19 18:06	EPA200.7		JDA
Conductivity	810			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	25.8	0.100	0.019	mg/L	1	10/18/19 18:06	EPA200.7		JDA
pH	7.65			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	0.98			No Unit	1	10/18/19 18:06	Calculation		JDA
Sodium	39.8	1.00	0.367	mg/L	1	10/18/19 18:06	EPA200.7		JDA

**Total Metals by ICP**

Barium	165	5.00	0.049	mg/kg dry	100	10/22/19 11:13	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:13	6010B		JDA
Chromium	5.47	5.00	0.075	mg/kg dry	100	10/22/19 11:13	6010B		JDA
Copper	19.8	5.00	0.117	mg/kg dry	100	10/22/19 11:13	6010B		JDA
Lead	11.9	10.0	0.576	mg/kg dry	100	10/22/19 11:13	6010B		JDA
Nickel	8.74	5.00	0.213	mg/kg dry	100	10/22/19 11:13	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:12	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:13	6010B		JDA
Zinc	41.1	10.0	0.165	mg/kg dry	100	10/22/19 11:13	6010B		JDA

**Total Metals by ICPMS**

Arsenic	5.02	1.00	0.214	mg/kg dry	1000	10/22/19 11:38	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0437	0.0437	0.0182	mg/kg dry	200	10/18/19 15:01	EPA7471		LLG
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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S2

## 1910150-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 16:58	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:04	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:04	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 15:04	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 15:04	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 15:04	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129 10/17/19 15:04 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/16/19 19:13	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/16/19 19:13	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/16/19 19:13	8015B		MS

Surrogate: 1-Chlorooctane 83.0 % 41-142 10/16/19 19:13 8015B MS

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147 10/16/19 19:13 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	0.038	0.040	0.014	mg/kg	40	10/21/19 17:44	8270C	J	MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 17:44	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:44	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:44	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:44	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:44	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:44	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 17:44	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:44	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:44	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:44	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 17:44	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 17:44	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 17:44	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 17:44	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S2

1910150-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 17:44	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 17:44	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:44	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 17:44	8270C		MS
Surrogate: Nitrobenzene-d5			51.8 %	10.8-154		10/21/19 17:44	8270C		MS
Surrogate: 2-Fluorobiphenyl			54.8 %	16.9-156		10/21/19 17:44	8270C		MS
Surrogate: Terphenyl-d14			57.0 %	27-170		10/21/19 17:44	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S3

## 1910150-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	94.1			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<10.6	10.6	2.05	mg/kg dry	10	10/21/19 17:53	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	82.1	0.100	0.013	mg/L	1	10/18/19 18:11	EPA200.7		JDA
Conductivity	688			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	22.9	0.100	0.019	mg/L	1	10/18/19 18:11	EPA200.7		JDA
pH	7.69			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	0.59			No Unit	1	10/18/19 18:11	Calculation		JDA
Sodium	23.3	1.00	0.367	mg/L	1	10/18/19 18:11	EPA200.7		JDA

**Total Metals by ICP**

Barium	96.0	5.00	0.049	mg/kg dry	100	10/22/19 11:18	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:18	6010B		JDA
Chromium	<5.00	5.00	0.075	mg/kg dry	100	10/22/19 11:18	6010B		JDA
Copper	9.74	5.00	0.117	mg/kg dry	100	10/22/19 11:18	6010B		JDA
Lead	<10.0	10.0	0.576	mg/kg dry	100	10/22/19 11:18	6010B		JDA
Nickel	5.76	5.00	0.213	mg/kg dry	100	10/22/19 11:18	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:17	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:18	6010B		JDA
Zinc	30.2	10.0	0.165	mg/kg dry	100	10/22/19 11:18	6010B		JDA

**Total Metals by ICPMS**

Arsenic	5.13	1.00	0.214	mg/kg dry	1000	10/22/19 11:42	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0425	0.0425	0.0177	mg/kg dry	200	10/18/19 15:01	EPA7471		LLG
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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S3

## 1910150-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:00	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:25	8021B		BF
Toluene*	<b>0.086</b>	0.050	0.002	mg/kg	50	10/17/19 15:25	8021B		BF
Ethylbenzene*	<b>0.068</b>	0.050	0.004	mg/kg	50	10/17/19 15:25	8021B		BF
Total Xylenes*	<b>0.818</b>	0.150	0.010	mg/kg	50	10/17/19 15:25	8021B		BF
Total BTEX	<b>0.972</b>	0.300	0.018	mg/kg	50	10/17/19 15:25	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129 10/17/19 15:25 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/16/19 19:38	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/16/19 19:38	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/16/19 19:38	8015B		MS

Surrogate: 1-Chlorooctane 86.6 % 41-142 10/16/19 19:38 8015B MS

Surrogate: 1-Chlorooctadecane 92.9 % 37.6-147 10/16/19 19:38 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<b>0.119</b>	0.040	0.014	mg/kg	40	10/21/19 18:11	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 18:11	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:11	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:11	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:11	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:11	8270C		MS
Phenanthrene*	<b>0.029</b>	0.040	0.007	mg/kg	40	10/21/19 18:11	8270C	J	MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 18:11	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:11	8270C		MS
Fluoranthene*	<b>0.009</b>	0.040	0.006	mg/kg	40	10/21/19 18:11	8270C	J	MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:11	8270C		MS
Benzo[a]anthracene*	<b>0.010</b>	0.040	0.008	mg/kg	40	10/21/19 18:11	8270C	J	MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 18:11	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 18:11	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 18:11	8270C		MS

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S3

1910150-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:11	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 18:11	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:11	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:11	8270C		MS
Surrogate: Nitrobenzene-d5			58.9 %	10.8-154		10/21/19 18:11	8270C		MS
Surrogate: 2-Fluorobiphenyl			61.9 %	16.9-156		10/21/19 18:11	8270C		MS
Surrogate: Terphenyl-d14			63.8 %	27-170		10/21/19 18:11	8270C		MS

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S4

## 1910150-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	91.9			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<10.9	10.9	2.10	mg/kg dry	10	10/21/19 18:11	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	114	0.100	0.013	mg/L	1	10/18/19 18:14	EPA200.7		JDA
Conductivity	922			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	28.5	0.100	0.019	mg/L	1	10/18/19 18:14	EPA200.7		JDA
pH	7.75			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	0.49			No Unit	1	10/18/19 18:14	Calculation		JDA
Sodium	22.4	1.00	0.367	mg/L	1	10/18/19 18:14	EPA200.7		JDA

**Total Metals by ICP**

Barium	124	5.00	0.049	mg/kg dry	100	10/22/19 11:20	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:20	6010B		JDA
Chromium	<5.00	5.00	0.075	mg/kg dry	100	10/22/19 11:20	6010B		JDA
Copper	10.8	5.00	0.117	mg/kg dry	100	10/22/19 11:20	6010B		JDA
Lead	<10.0	10.0	0.576	mg/kg dry	100	10/22/19 11:20	6010B		JDA
Nickel	6.01	5.00	0.213	mg/kg dry	100	10/22/19 11:20	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:20	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:20	6010B		JDA
Zinc	29.9	10.0	0.165	mg/kg dry	100	10/22/19 11:20	6010B		JDA

**Total Metals by ICPMS**

Arsenic	4.49	1.00	0.214	mg/kg dry	1000	10/22/19 11:45	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0435	0.0435	0.0182	mg/kg dry	200	10/18/19 15:01	EPA7471		LLG
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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S4

## 1910150-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:03	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:46	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:46	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 15:46	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 15:46	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 15:46	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129 10/17/19 15:46 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/16/19 20:03	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/16/19 20:03	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/16/19 20:03	8015B		MS

Surrogate: 1-Chlorooctane 85.9 % 41-142 10/16/19 20:03 8015B MS

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147 10/16/19 20:03 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 18:38	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 18:38	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:38	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:38	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:38	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:38	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:38	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 18:38	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:38	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:38	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:38	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 18:38	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 18:38	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 18:38	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 18:38	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S4

1910150-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 18:38	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 18:38	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:38	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 18:38	8270C		MS
Surrogate: Nitrobenzene-d5			62.3 %	10.8-154		10/21/19 18:38	8270C		MS
Surrogate: 2-Fluorobiphenyl			66.1 %	16.9-156		10/21/19 18:38	8270C		MS
Surrogate: Terphenyl-d14			73.0 %	27-170		10/21/19 18:38	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S5

## 1910150-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	85.2			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	14.9	11.7	2.26	mg/kg dry	10	10/21/19 18:29	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	70.4	0.100	0.013	mg/L	1	10/18/19 18:16	EPA200.7		JDA
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Conductivity	882			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
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Magnesium	42.5	0.100	0.019	mg/L	1	10/18/19 18:16	EPA200.7		JDA
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pH	7.80			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
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SAR	1.09			No Unit	1	10/18/19 18:16	Calculation		JDA
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Sodium	47.0	1.00	0.367	mg/L	1	10/18/19 18:16	EPA200.7		JDA
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**Total Metals by ICP**

Barium	156	5.00	0.049	mg/kg dry	100	10/22/19 11:23	6010B		JDA
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Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:23	6010B		JDA
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Chromium	8.38	5.00	0.075	mg/kg dry	100	10/22/19 11:23	6010B		JDA
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Copper	23.7	5.00	0.117	mg/kg dry	100	10/22/19 11:23	6010B		JDA
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Lead	12.6	10.0	0.576	mg/kg dry	100	10/22/19 11:23	6010B		JDA
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Nickel	12.2	5.00	0.213	mg/kg dry	100	10/22/19 11:23	6010B		JDA
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Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:22	6010B		JDA
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Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:23	6010B		JDA
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Zinc	57.6	10.0	0.165	mg/kg dry	100	10/22/19 11:23	6010B		JDA
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**Total Metals by ICPMS**

Arsenic	11.9	1.00	0.214	mg/kg dry	1000	10/22/19 11:48	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0469	0.0469	0.0196	mg/kg dry	200	10/18/19 15:01	EPA7471		LLG
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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S5

## 1910150-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:06	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:07	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:07	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 16:07	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 16:07	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 16:07	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129 10/17/19 16:07 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/16/19 20:27	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/16/19 20:27	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/16/19 20:27	8015B		MS

Surrogate: 1-Chlorooctane 76.8 % 41-142 10/16/19 20:27 8015B MS

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147 10/16/19 20:27 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 19:04	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:04	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:04	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:04	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:04	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:04	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:04	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:04	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:04	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:04	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:04	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:04	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:04	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 19:04	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:04	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S5

1910150-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:04	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:04	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:04	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:04	8270C		MS
Surrogate: Nitrobenzene-d5			58.5 %	10.8-154		10/21/19 19:04	8270C		MS
Surrogate: 2-Fluorobiphenyl			60.6 %	16.9-156		10/21/19 19:04	8270C		MS
Surrogate: Terphenyl-d14			66.0 %	27-170		10/21/19 19:04	8270C		MS

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S6

## 1910150-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	86.9			%	1	10/18/19 15:40	EPA160.3/1684		VJL
<b>Soluble (DI Water Extraction)</b>									
Chloride	12.0	11.5	2.22	mg/kg dry	10	10/21/19 19:23	EPA300.0		JDA
<b>Saturated Paste Extraction</b>									
Calcium	45.2	0.100	0.013	mg/L	1	10/18/19 18:19	EPA200.7		JDA
Conductivity	607			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	30.9	0.100	0.019	mg/L	1	10/18/19 18:19	EPA200.7		JDA
pH	7.92			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	0.70			No Unit	1	10/18/19 18:19	Calculation		JDA
Sodium	24.8	1.00	0.367	mg/L	1	10/18/19 18:19	EPA200.7		JDA
<b>Total Metals by ICP</b>									
Barium	236	5.00	0.049	mg/kg dry	100	10/22/19 11:33	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:33	6010B		JDA
Chromium	6.87	5.00	0.075	mg/kg dry	100	10/22/19 11:33	6010B		JDA
Copper	25.1	5.00	0.117	mg/kg dry	100	10/22/19 11:33	6010B		JDA
Lead	12.7	10.0	0.576	mg/kg dry	100	10/22/19 11:33	6010B		JDA
Nickel	12.0	5.00	0.213	mg/kg dry	100	10/22/19 11:33	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:33	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:33	6010B		JDA
Zinc	52.2	10.0	0.165	mg/kg dry	100	10/22/19 11:33	6010B		JDA
<b>Total Metals by ICPMS</b>									
Arsenic	10.7	1.00	0.214	mg/kg dry	1000	10/22/19 11:59	6020A		JDA
<b>Total Mercury by CVAA</b>									
Mercury	<0.0460	0.0460	0.0192	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S6

## 1910150-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:08	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 14:49	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 14:49	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 14:49	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 14:49	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 14:49	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129 10/17/19 14:49 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 14:16	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 14:16	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 14:16	8015B		MS

Surrogate: 1-Chlorooctane 97.7 % 41-142 10/17/19 14:16 8015B MS

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147 10/17/19 14:16 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 19:31	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:31	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:31	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:31	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:31	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:31	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:31	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:31	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:31	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:31	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:31	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:31	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:31	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 19:31	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:31	8270C		MS

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Jenna Marie Emerick For Debbie Zufelt, Reports Manager

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S6

1910150-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:31	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:31	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:31	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:31	8270C		MS
Surrogate: Nitrobenzene-d5			32.1 %	10.8-154		10/21/19 19:31	8270C		MS
Surrogate: 2-Fluorobiphenyl			32.1 %	16.9-156		10/21/19 19:31	8270C		MS
Surrogate: Terphenyl-d14			31.0 %	27-170		10/21/19 19:31	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S7

## 1910150-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	86.0			%	1	10/18/19 15:40	EPA160.3/1684		VJL
<b>Soluble (DI Water Extraction)</b>									
Chloride	85.3	58.2	11.2	mg/kg dry	50	10/21/19 19:40	EPA300.0		JDA
<b>Saturated Paste Extraction</b>									
Calcium	179	1.00	0.128	mg/L	10	10/18/19 18:27	EPA200.7		JDA
Conductivity	5320			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	121	1.00	0.188	mg/L	10	10/18/19 18:27	EPA200.7		JDA
pH	7.92			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	11.1			No Unit	1	10/18/19 18:27	Calculation		JDA
Sodium	783	10.0	3.67	mg/L	10	10/18/19 18:27	EPA200.7		JDA
<b>Total Metals by ICP</b>									
Barium	283	5.00	0.049	mg/kg dry	100	10/22/19 11:38	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:38	6010B		JDA
Chromium	7.08	5.00	0.075	mg/kg dry	100	10/22/19 11:38	6010B		JDA
Copper	33.7	5.00	0.117	mg/kg dry	100	10/22/19 11:38	6010B		JDA
Lead	17.3	10.0	0.576	mg/kg dry	100	10/22/19 11:38	6010B		JDA
Nickel	15.1	5.00	0.213	mg/kg dry	100	10/22/19 11:38	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:37	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:38	6010B		JDA
Zinc	79.7	10.0	0.165	mg/kg dry	100	10/22/19 11:38	6010B		JDA
<b>Total Metals by ICPMS</b>									
Arsenic	18.0	1.00	0.214	mg/kg dry	1000	10/22/19 12:02	6020A		JDA
<b>Total Mercury by CVAA</b>									
Mercury	<0.0465	0.0465	0.0194	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S7

## 1910150-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:11	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:09	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:09	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 15:09	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 15:09	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 15:09	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129 10/17/19 15:09 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 14:40	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 14:40	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 14:40	8015B		MS

Surrogate: 1-Chlorooctane 87.4 % 41-142 10/17/19 14:40 8015B MS

Surrogate: 1-Chlorooctadecane 74.8 % 37.6-147 10/17/19 14:40 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 19:58	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:58	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:58	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:58	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:58	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:58	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:58	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:58	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:58	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:58	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:58	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 19:58	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:58	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 19:58	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:58	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S7

1910150-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 19:58	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 19:58	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:58	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 19:58	8270C		MS
Surrogate: Nitrobenzene-d5			55.6 %	10.8-154		10/21/19 19:58	8270C		MS
Surrogate: 2-Fluorobiphenyl			56.1 %	16.9-156		10/21/19 19:58	8270C		MS
Surrogate: Terphenyl-d14			59.3 %	27-170		10/21/19 19:58	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S8

## 1910150-08 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	96.2			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<10.4	10.4	2.01	mg/kg dry	10	10/21/19 19:58	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	129	0.100	0.013	mg/L	1	10/18/19 18:30	EPA200.7		JDA
Conductivity	1010			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	31.6	0.100	0.019	mg/L	1	10/18/19 18:30	EPA200.7		JDA
pH	7.49			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	0.89			No Unit	1	10/18/19 18:30	Calculation		JDA
Sodium	43.3	1.00	0.367	mg/L	1	10/18/19 18:30	EPA200.7		JDA

**Total Metals by ICP**

Barium	141	5.00	0.049	mg/kg dry	100	10/22/19 11:42	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:43	6010B		JDA
Chromium	5.14	5.00	0.075	mg/kg dry	100	10/22/19 11:42	6010B		JDA
Copper	12.1	5.00	0.117	mg/kg dry	100	10/22/19 11:42	6010B		JDA
Lead	<10.0	10.0	0.576	mg/kg dry	100	10/22/19 11:43	6010B		JDA
Nickel	6.75	5.00	0.213	mg/kg dry	100	10/22/19 11:43	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:42	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:42	6010B		JDA
Zinc	32.0	10.0	0.165	mg/kg dry	100	10/22/19 11:43	6010B		JDA

**Total Metals by ICPMS**

Arsenic	3.46	1.00	0.214	mg/kg dry	1000	10/22/19 12:06	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0416	0.0416	0.0173	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG
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Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S8

## 1910150-08 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:14	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:30	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:30	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 15:30	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 15:30	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 15:30	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129 10/17/19 15:30 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 15:11	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 15:11	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 15:11	8015B		MS

Surrogate: 1-Chlorooctane 102 % 41-142 10/17/19 15:11 8015B MS

Surrogate: 1-Chlorooctadecane 90.5 % 37.6-147 10/17/19 15:11 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 20:25	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 20:25	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:25	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:25	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:25	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:25	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:25	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 20:25	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:25	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:25	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:25	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 20:25	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 20:25	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 20:25	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 20:25	8270C		MS

Green Analytical Laboratories

Jenna Marie Emerick For Debbie Zufelt, Reports Manager

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www.GreenAnalytical.com

Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S8

1910150-08 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:25	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 20:25	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:25	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:25	8270C		MS
Surrogate: Nitrobenzene-d5			55.4 %	10.8-154		10/21/19 20:25	8270C		MS
Surrogate: 2-Fluorobiphenyl			56.3 %	16.9-156		10/21/19 20:25	8270C		MS
Surrogate: Terphenyl-d14			60.7 %	27-170		10/21/19 20:25	8270C		MS

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S9

## 1910150-09 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	91.3			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<11.0	11.0	2.11	mg/kg dry	10	10/21/19 20:16	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	92.1	0.100	0.013	mg/L	1	10/18/19 18:32	EPA200.7		JDA
Conductivity	961			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	25.9	0.100	0.019	mg/L	1	10/18/19 18:32	EPA200.7		JDA
pH	7.75			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	1.82			No Unit	1	10/18/19 18:32	Calculation		JDA
Sodium	76.9	1.00	0.367	mg/L	1	10/18/19 18:32	EPA200.7		JDA

**Total Metals by ICP**

Barium	165	5.00	0.049	mg/kg dry	100	10/22/19 11:45	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:45	6010B		JDA
Chromium	6.20	5.00	0.075	mg/kg dry	100	10/22/19 11:45	6010B		JDA
Copper	16.2	5.00	0.117	mg/kg dry	100	10/22/19 11:45	6010B		JDA
Lead	10.8	10.0	0.576	mg/kg dry	100	10/22/19 11:45	6010B		JDA
Nickel	8.24	5.00	0.213	mg/kg dry	100	10/22/19 11:45	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:45	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:45	6010B		JDA
Zinc	38.4	10.0	0.165	mg/kg dry	100	10/22/19 11:45	6010B		JDA

**Total Metals by ICPMS**

Arsenic	5.28	1.00	0.214	mg/kg dry	1000	10/22/19 12:09	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0438	0.0438	0.0183	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG
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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S9

## 1910150-09 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:22	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:51	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 15:51	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 15:51	8021B		BF
Total Xylenes*	<b>0.254</b>	0.150	0.010	mg/kg	50	10/17/19 15:51	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 15:51	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129 10/17/19 15:51 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 15:36	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 15:36	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 15:36	8015B		MS

Surrogate: 1-Chlorooctane 74.8 % 41-142 10/17/19 15:36 8015B MS

Surrogate: 1-Chlorooctadecane 68.0 % 37.6-147 10/17/19 15:36 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 20:52	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 20:52	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:52	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:52	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:52	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:52	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:52	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 20:52	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:52	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:52	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:52	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 20:52	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 20:52	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 20:52	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 20:52	8270C		MS

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S9

1910150-09 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 20:52	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 20:52	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:52	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 20:52	8270C		MS
Surrogate: Nitrobenzene-d5			59.3 %	10.8-154		10/21/19 20:52	8270C		MS
Surrogate: 2-Fluorobiphenyl			60.5 %	16.9-156		10/21/19 20:52	8270C		MS
Surrogate: Terphenyl-d14			61.6 %	27-170		10/21/19 20:52	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S10

## 1910150-10 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	91.2			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<11.0	11.0	2.11	mg/kg dry	10	10/21/19 20:34	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	133	0.100	0.013	mg/L	1	10/18/19 18:35	EPA200.7		JDA
Conductivity	1050			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	32.4	0.100	0.019	mg/L	1	10/18/19 18:35	EPA200.7		JDA
pH	7.71			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	0.70			No Unit	1	10/18/19 18:35	Calculation		JDA
Sodium	34.9	1.00	0.367	mg/L	1	10/18/19 18:35	EPA200.7		JDA

**Total Metals by ICP**

Barium	140	5.00	0.049	mg/kg dry	100	10/22/19 11:50	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:50	6010B		JDA
Chromium	5.92	5.00	0.075	mg/kg dry	100	10/22/19 11:50	6010B		JDA
Copper	15.1	5.00	0.117	mg/kg dry	100	10/22/19 11:50	6010B		JDA
Lead	10.1	10.0	0.576	mg/kg dry	100	10/22/19 11:50	6010B		JDA
Nickel	7.79	5.00	0.213	mg/kg dry	100	10/22/19 11:50	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:49	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:50	6010B		JDA
Zinc	37.7	10.0	0.165	mg/kg dry	100	10/22/19 11:50	6010B		JDA

**Total Metals by ICPMS**

Arsenic	4.89	1.00	0.214	mg/kg dry	1000	10/22/19 12:12	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0439	0.0439	0.0183	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG
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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S10

## 1910150-10 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:25	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:12	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:12	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 16:12	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 16:12	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 16:12	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129 10/17/19 16:12 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 16:00	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 16:00	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 16:00	8015B		MS

Surrogate: 1-Chlorooctane 85.9 % 41-142 10/17/19 16:00 8015B MS

Surrogate: 1-Chlorooctadecane 77.4 % 37.6-147 10/17/19 16:00 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 21:18	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 21:18	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:18	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:18	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:18	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:18	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:18	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 21:18	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:18	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:18	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:18	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 21:18	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 21:18	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 21:18	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 21:18	8270C		MS

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**S10**

**1910150-10 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:18	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/21/19 21:18	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:18	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:18	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			58.3 %	10.8-154		10/21/19 21:18	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			59.4 %	16.9-156		10/21/19 21:18	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			57.0 %	27-170		10/21/19 21:18	8270C		MS

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Jenna Marie Emerick For Debbie Zufelt, Reports Manager

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S11

## 1910150-11 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	93.6			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<10.7	10.7	2.06	mg/kg dry	10	10/21/19 20:52	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	77.7	0.100	0.013	mg/L	1	10/18/19 18:38	EPA200.7		JDA
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Conductivity	727			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
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Magnesium	27.8	0.100	0.019	mg/L	1	10/18/19 18:38	EPA200.7		JDA
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pH	7.71			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
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SAR	0.65			No Unit	1	10/18/19 18:38	Calculation		JDA
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Sodium	26.3	1.00	0.367	mg/L	1	10/18/19 18:38	EPA200.7		JDA
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**Total Metals by ICP**

Barium	187	5.00	0.049	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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Chromium	7.48	5.00	0.075	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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Copper	22.9	5.00	0.117	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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Lead	13.2	10.0	0.576	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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Nickel	10.2	5.00	0.213	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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Zinc	47.5	10.0	0.165	mg/kg dry	100	10/22/19 11:54	6010B		JDA
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**Total Metals by ICPMS**

Arsenic	6.02	1.00	0.214	mg/kg dry	1000	10/22/19 12:16	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0427	0.0427	0.0178	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG
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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S11

## 1910150-11 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:30	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:32	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:32	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 16:32	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 16:32	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 16:32	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129 10/17/19 16:32 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 16:26	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 16:26	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 16:26	8015B		MS

Surrogate: 1-Chlorooctane 54.2 % 41-142 10/17/19 16:26 8015B MS

Surrogate: 1-Chlorooctadecane 47.6 % 37.6-147 10/17/19 16:26 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 21:45	8270C		MS
2-Methylnaphthalene*	0.008	0.040	0.008	mg/kg	40	10/21/19 21:45	8270C	J	MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:45	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:45	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:45	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:45	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:45	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 21:45	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:45	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:45	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:45	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 21:45	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 21:45	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 21:45	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 21:45	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**S11**

**1910150-11 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/21/19 21:45	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/21/19 21:45	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:45	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 21:45	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			59.8 %	10.8-154		10/21/19 21:45	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			61.1 %	16.9-156		10/21/19 21:45	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			64.1 %	27-170		10/21/19 21:45	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S12

## 1910150-12 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	96.0			%	1	10/18/19 15:40	EPA160.3/1684		VJL
<b>Soluble (DI Water Extraction)</b>									
Chloride	167	20.8	4.02	mg/kg dry	20	10/21/19 21:46	EPA300.0		JDA
<b>Saturated Paste Extraction</b>									
Calcium	117	0.500	0.064	mg/L	5	10/18/19 18:40	EPA200.7		JDA
Conductivity	2470			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	36.7	0.500	0.094	mg/L	5	10/18/19 18:40	EPA200.7		JDA
pH	7.77			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	6.01			No Unit	1	10/18/19 18:40	Calculation		JDA
Sodium	291	5.00	1.83	mg/L	5	10/18/19 18:40	EPA200.7		JDA
<b>Total Metals by ICP</b>									
Barium	149	5.00	0.049	mg/kg dry	100	10/22/19 12:09	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 12:09	6010B		JDA
Chromium	7.04	5.00	0.075	mg/kg dry	100	10/22/19 12:09	6010B		JDA
Copper	15.8	5.00	0.117	mg/kg dry	100	10/22/19 12:09	6010B		JDA
Lead	11.7	10.0	0.576	mg/kg dry	100	10/22/19 12:09	6010B		JDA
Nickel	9.25	5.00	0.213	mg/kg dry	100	10/22/19 12:09	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 12:08	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 12:09	6010B		JDA
Zinc	42.4	10.0	0.165	mg/kg dry	100	10/22/19 12:09	6010B		JDA
<b>Total Metals by ICPMS</b>									
Arsenic	6.93	1.00	0.214	mg/kg dry	1000	10/22/19 12:26	6020A		JDA
<b>Total Mercury by CVAA</b>									
Mercury	<0.0417	0.0417	0.0174	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S12

## 1910150-12 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:33	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:53	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:53	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 16:53	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 16:53	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 16:53	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129 10/17/19 16:53 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 16:51	8015B		MS
DRO >C10-C28*	13.7	10.0	1.56	mg/kg	1	10/17/19 16:51	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 16:51	8015B		MS

Surrogate: 1-Chlorooctane 94.3 % 41-142 10/17/19 16:51 8015B MS

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147 10/17/19 16:51 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	0.066	0.040	0.014	mg/kg	40	10/21/19 22:12	8270C		MS
2-Methylnaphthalene*	0.104	0.040	0.008	mg/kg	40	10/21/19 22:12	8270C		MS
1-Methylnaphthalene	0.075	0.040	0.007	mg/kg	40	10/21/19 22:12	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:12	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 22:12	8270C		MS
Fluorene*	0.019	0.040	0.006	mg/kg	40	10/21/19 22:12	8270C	J	MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 22:12	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 22:12	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:12	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:12	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 22:12	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 22:12	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 22:12	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 22:12	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 22:12	8270C		MS

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**S12**

**1910150-12 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/21/19 22:12	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/21/19 22:12	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:12	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:12	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			62.3 %	10.8-154		10/21/19 22:12	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			62.8 %	16.9-156		10/21/19 22:12	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			63.2 %	27-170		10/21/19 22:12	8270C		MS

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S13

## 1910150-13 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	96.7			%	1	10/18/19 15:40	EPA160.3/1684		VJL
<b>Soluble (DI Water Extraction)</b>									
Chloride	<10.3	10.3	1.99	mg/kg dry	10	10/21/19 22:04	EPA300.0		JDA
<b>Saturated Paste Extraction</b>									
Calcium	101	0.100	0.013	mg/L	1	10/18/19 18:43	EPA200.7		JDA
Conductivity	1020			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	36.3	0.100	0.019	mg/L	1	10/18/19 18:43	EPA200.7		JDA
pH	7.61			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	1.18			No Unit	1	10/18/19 18:43	Calculation		JDA
Sodium	54.4	1.00	0.367	mg/L	1	10/18/19 18:43	EPA200.7		JDA
<b>Total Metals by ICP</b>									
Barium	141	5.00	0.049	mg/kg dry	100	10/22/19 12:13	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 12:13	6010B		JDA
Chromium	7.78	5.00	0.075	mg/kg dry	100	10/22/19 12:13	6010B		JDA
Copper	18.7	5.00	0.117	mg/kg dry	100	10/22/19 12:13	6010B		JDA
Lead	<10.0	10.0	0.576	mg/kg dry	100	10/22/19 12:13	6010B		JDA
Nickel	9.72	5.00	0.213	mg/kg dry	100	10/22/19 12:13	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 12:13	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 12:13	6010B		JDA
Zinc	40.2	10.0	0.165	mg/kg dry	100	10/22/19 12:13	6010B		JDA
<b>Total Metals by ICPMS</b>									
Arsenic	7.79	1.00	0.214	mg/kg dry	1000	10/22/19 12:29	6020A		JDA
<b>Total Mercury by CVAA</b>									
Mercury	<0.0413	0.0413	0.0172	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S13

## 1910150-13 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:36	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 17:14	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 17:14	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 17:14	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 17:14	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 17:14	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129 10/17/19 17:14 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 17:15	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 17:15	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 17:15	8015B		MS

Surrogate: 1-Chlorooctane 82.1 % 41-142 10/17/19 17:15 8015B MS

Surrogate: 1-Chlorooctadecane 72.7 % 37.6-147 10/17/19 17:15 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 22:39	8270C		MS
2-Methylnaphthalene*	0.013	0.040	0.008	mg/kg	40	10/21/19 22:39	8270C	J	MS
1-Methylnaphthalene	0.012	0.040	0.007	mg/kg	40	10/21/19 22:39	8270C	J	MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:39	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 22:39	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:39	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 22:39	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 22:39	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:39	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:39	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 22:39	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 22:39	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 22:39	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 22:39	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 22:39	8270C		MS

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**S13**

**1910150-13 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/21/19 22:39	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/21/19 22:39	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:39	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 22:39	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			53.7 %	10.8-154		10/21/19 22:39	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			53.6 %	16.9-156		10/21/19 22:39	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			55.5 %	27-170		10/21/19 22:39	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S14

## 1910150-14 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	95.4			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<10.5	10.5	2.02	mg/kg dry	10	10/21/19 22:58	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	189	0.500	0.064	mg/L	5	10/18/19 18:46	EPA200.7		JDA
Conductivity	2060			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	94.7	0.500	0.094	mg/L	5	10/18/19 18:46	EPA200.7		JDA
pH	7.57			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	1.75			No Unit	1	10/18/19 18:46	Calculation		JDA
Sodium	118	5.00	1.83	mg/L	5	10/18/19 18:46	EPA200.7		JDA

**Total Metals by ICP**

Barium	222	5.00	0.049	mg/kg dry	100	10/22/19 12:24	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 12:24	6010B		JDA
Chromium	7.83	5.00	0.075	mg/kg dry	100	10/22/19 12:24	6010B		JDA
Copper	32.7	5.00	0.117	mg/kg dry	100	10/22/19 12:24	6010B		JDA
Lead	12.5	10.0	0.576	mg/kg dry	100	10/22/19 12:24	6010B		JDA
Nickel	12.5	5.00	0.213	mg/kg dry	100	10/22/19 12:24	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 12:23	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 12:24	6010B		JDA
Zinc	58.9	10.0	0.165	mg/kg dry	100	10/22/19 12:24	6010B		JDA

**Total Metals by ICPMS**

Arsenic	9.28	1.00	0.214	mg/kg dry	1000	10/22/19 12:40	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0419	0.0419	0.0175	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG
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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S14

## 1910150-14 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:39	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 17:34	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 17:34	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 17:34	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 17:34	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 17:34	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129 10/17/19 17:34 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 17:41	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 17:41	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 17:41	8015B		MS

Surrogate: 1-Chlorooctane 81.6 % 41-142 10/17/19 17:41 8015B MS

Surrogate: 1-Chlorooctadecane 71.5 % 37.6-147 10/17/19 17:41 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 23:06	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 23:06	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:06	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:06	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:06	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:06	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:06	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 23:06	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:06	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:06	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:06	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 23:06	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 23:06	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 23:06	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 23:06	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**S14**

**1910150-14 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:06	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/21/19 23:06	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:06	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:06	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			65.2 %	10.8-154		10/21/19 23:06	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			66.3 %	16.9-156		10/21/19 23:06	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			71.9 %	27-170		10/21/19 23:06	8270C		MS

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S15

## 1910150-15 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	94.2			%	1	10/18/19 15:40	EPA160.3/1684		VJL
<b>Soluble (DI Water Extraction)</b>									
Chloride	<21.2	21.2	4.09	mg/kg dry	20	10/21/19 23:16	EPA300.0		JDA
<b>Saturated Paste Extraction</b>									
Calcium	61.0	0.100	0.013	mg/L	1	10/18/19 18:48	EPA200.7		JDA
Conductivity	889			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	30.5	0.100	0.019	mg/L	1	10/18/19 18:48	EPA200.7		JDA
pH	7.70			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	1.91			No Unit	1	10/18/19 18:48	Calculation		JDA
Sodium	73.0	1.00	0.367	mg/L	1	10/18/19 18:48	EPA200.7		JDA
<b>Total Metals by ICP</b>									
Barium	209	5.00	0.049	mg/kg dry	100	10/22/19 12:28	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 12:28	6010B		JDA
Chromium	8.34	5.00	0.075	mg/kg dry	100	10/22/19 12:28	6010B		JDA
Copper	20.7	5.00	0.117	mg/kg dry	100	10/22/19 12:28	6010B		JDA
Lead	<10.0	10.0	0.576	mg/kg dry	100	10/22/19 12:28	6010B		JDA
Nickel	13.4	5.00	0.213	mg/kg dry	100	10/22/19 12:28	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 12:28	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 12:28	6010B		JDA
Zinc	49.5	10.0	0.165	mg/kg dry	100	10/22/19 12:28	6010B		JDA
<b>Total Metals by ICPMS</b>									
Arsenic	9.59	1.00	0.214	mg/kg dry	1000	10/22/19 12:43	6020A		JDA
<b>Total Mercury by CVAA</b>									
Mercury	<0.0425	0.0425	0.0177	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S15

## 1910150-15 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:41	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 17:55	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 17:55	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 17:55	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 17:55	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 17:55	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129 10/17/19 17:55 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 18:06	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 18:06	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 18:06	8015B		MS

Surrogate: 1-Chlorooctane 85.2 % 41-142 10/17/19 18:06 8015B MS

Surrogate: 1-Chlorooctadecane 75.1 % 37.6-147 10/17/19 18:06 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/21/19 23:33	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 23:33	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:33	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:33	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:33	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:33	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:33	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 23:33	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:33	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:33	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:33	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/21/19 23:33	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 23:33	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/21/19 23:33	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/21/19 23:33	8270C		MS

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**S15**

**1910150-15 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/21/19 23:33	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/21/19 23:33	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:33	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/21/19 23:33	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			81.7 %	10.8-154		10/21/19 23:33	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			88.4 %	16.9-156		10/21/19 23:33	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			85.3 %	27-170		10/21/19 23:33	8270C		MS

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Jenna Marie Emerick For Debbie Zufelt, Reports Manager

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www.GreenAnalytical.com

Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S16

## 1910150-16 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	93.8			%	1	10/18/19 15:40	EPA160.3/1684		VJL
<b>Soluble (DI Water Extraction)</b>									
Chloride	<10.7	10.7	2.06	mg/kg dry	10	10/21/19 23:34	EPA300.0		JDA
<b>Saturated Paste Extraction</b>									
Calcium	89.9	0.100	0.013	mg/L	1	10/18/19 18:51	EPA200.7		JDA
Conductivity	937			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	26.3	0.100	0.019	mg/L	1	10/18/19 18:51	EPA200.7		JDA
pH	7.62			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	1.39			No Unit	1	10/18/19 18:51	Calculation		JDA
Sodium	58.1	1.00	0.367	mg/L	1	10/18/19 18:51	EPA200.7		JDA
<b>Total Metals by ICP</b>									
Barium	211	5.00	0.049	mg/kg dry	100	10/22/19 12:33	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 12:33	6010B		JDA
Chromium	9.44	5.00	0.075	mg/kg dry	100	10/22/19 12:33	6010B		JDA
Copper	19.5	5.00	0.117	mg/kg dry	100	10/22/19 12:33	6010B		JDA
Lead	11.4	10.0	0.576	mg/kg dry	100	10/22/19 12:33	6010B		JDA
Nickel	9.93	5.00	0.213	mg/kg dry	100	10/22/19 12:33	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 12:32	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 12:33	6010B		JDA
Zinc	39.3	10.0	0.165	mg/kg dry	100	10/22/19 12:33	6010B		JDA
<b>Total Metals by ICPMS</b>									
Arsenic	6.97	1.00	0.214	mg/kg dry	1000	10/22/19 12:46	6020A		JDA
<b>Total Mercury by CVAA</b>									
Mercury	<0.0427	0.0427	0.0178	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S16

## 1910150-16 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:44	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 18:16	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 18:16	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 18:16	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 18:16	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 18:16	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129 10/17/19 18:16 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 18:30	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 18:30	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 18:30	8015B		MS

Surrogate: 1-Chlorooctane 77.3 % 41-142 10/17/19 18:30 8015B MS

Surrogate: 1-Chlorooctadecane 69.2 % 37.6-147 10/17/19 18:30 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/22/19 00:00	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 00:00	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/22/19 00:00	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 00:00	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 00:00	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 00:00	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 00:00	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 00:00	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/22/19 00:00	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 00:00	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 00:00	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 00:00	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 00:00	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/22/19 00:00	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 00:00	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**S16**

**1910150-16 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/22/19 00:00	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/22/19 00:00	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/22/19 00:00	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/22/19 00:00	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			72.7 %	10.8-154		10/22/19 00:00	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			81.4 %	16.9-156		10/22/19 00:00	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			78.2 %	27-170		10/22/19 00:00	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S17

## 1910150-17 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	91.8			%	1	10/18/19 15:40	EPA160.3/1684		VJL
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**Soluble (DI Water Extraction)**

Chloride	<10.9	10.9	2.10	mg/kg dry	10	10/21/19 23:52	EPA300.0		JDA
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**Saturated Paste Extraction**

Calcium	101	0.100	0.013	mg/L	1	10/18/19 18:59	EPA200.7		JDA
Conductivity	1040			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	33.9	0.100	0.019	mg/L	1	10/18/19 18:59	EPA200.7		JDA
pH	7.70			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	1.47			No Unit	1	10/18/19 18:59	Calculation		JDA
Sodium	66.7	1.00	0.367	mg/L	1	10/18/19 18:59	EPA200.7		JDA

**Total Metals by ICP**

Barium	89.6	5.00	0.049	mg/kg dry	100	10/22/19 12:37	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 12:38	6010B		JDA
Chromium	5.95	5.00	0.075	mg/kg dry	100	10/22/19 12:37	6010B		JDA
Copper	10.7	5.00	0.117	mg/kg dry	100	10/22/19 12:37	6010B		JDA
Lead	<10.0	10.0	0.576	mg/kg dry	100	10/22/19 12:38	6010B		JDA
Nickel	5.45	5.00	0.213	mg/kg dry	100	10/22/19 12:38	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 12:37	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 12:37	6010B		JDA
Zinc	34.8	10.0	0.165	mg/kg dry	100	10/22/19 12:38	6010B		JDA

**Total Metals by ICPMS**

Arsenic	5.62	1.00	0.214	mg/kg dry	1000	10/22/19 12:50	6020A		JDA
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**Total Mercury by CVAA**

Mercury	<0.0436	0.0436	0.0182	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG
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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S17

## 1910150-17 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:47	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 18:36	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 18:36	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 18:36	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 18:36	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 18:36	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129 10/17/19 18:36 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 18:55	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 18:55	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 18:55	8015B		MS

Surrogate: 1-Chlorooctane 79.0 % 41-142 10/17/19 18:55 8015B MS

Surrogate: 1-Chlorooctadecane 69.9 % 37.6-147 10/17/19 18:55 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/22/19 14:03	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 14:03	8270C		MS
1-Methylnaphthalene	0.019	0.040	0.007	mg/kg	40	10/22/19 14:03	8270C	J	MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:03	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:03	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:03	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:03	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 14:03	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:03	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:03	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:03	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 14:03	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:03	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/22/19 14:03	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:03	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

S17

1910150-17 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:03	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:03	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:03	8270C		MS
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:03	8270C		MS
Surrogate: Nitrobenzene-d5			78.2 %	10.8-154		10/22/19 14:03	8270C		MS
Surrogate: 2-Fluorobiphenyl			87.4 %	16.9-156		10/22/19 14:03	8270C		MS
Surrogate: Terphenyl-d14			86.6 %	27-170		10/22/19 14:03	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S18

## 1910150-18 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	97.0			%	1	10/18/19 15:40	EPA160.3/1684		VJL
<b>Soluble (DI Water Extraction)</b>									
Chloride	<10.3	10.3	1.99	mg/kg dry	10	10/22/19 00:10	EPA300.0		JDA
<b>Saturated Paste Extraction</b>									
Calcium	109	0.100	0.013	mg/L	1	10/18/19 19:02	EPA200.7		JDA
Conductivity	1010			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	31.2	0.100	0.019	mg/L	1	10/18/19 19:02	EPA200.7		JDA
pH	7.71			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	1.03			No Unit	1	10/18/19 19:02	Calculation		JDA
Sodium	47.4	1.00	0.367	mg/L	1	10/18/19 19:02	EPA200.7		JDA
<b>Total Metals by ICP</b>									
Barium	109	5.00	0.049	mg/kg dry	100	10/22/19 12:42	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 12:42	6010B		JDA
Chromium	8.73	5.00	0.075	mg/kg dry	100	10/22/19 12:42	6010B		JDA
Copper	18.0	5.00	0.117	mg/kg dry	100	10/22/19 12:42	6010B		JDA
Lead	11.7	10.0	0.576	mg/kg dry	100	10/22/19 12:42	6010B		JDA
Nickel	7.72	5.00	0.213	mg/kg dry	100	10/22/19 12:42	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 12:42	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 12:42	6010B		JDA
Zinc	47.1	10.0	0.165	mg/kg dry	100	10/22/19 12:42	6010B		JDA
<b>Total Metals by ICPMS</b>									
Arsenic	4.50	1.00	0.214	mg/kg dry	1000	10/22/19 12:53	6020A		JDA
<b>Total Mercury by CVAA</b>									
Mercury	<0.0412	0.0412	0.0172	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

## S18

## 1910150-18 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:55	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:28	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:28	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 16:28	8021B		BF
Total Xylenes*	<b>0.221</b>	0.150	0.010	mg/kg	50	10/17/19 16:28	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 16:28	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129 10/17/19 16:28 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 19:19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 19:19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 19:19	8015B		MS

Surrogate: 1-Chlorooctane 89.4 % 41-142 10/17/19 19:19 8015B MS

Surrogate: 1-Chlorooctadecane 78.7 % 37.6-147 10/17/19 19:19 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<b>0.095</b>	0.040	0.014	mg/kg	40	10/22/19 14:30	8270C		MS
2-Methylnaphthalene*	<b>0.124</b>	0.040	0.008	mg/kg	40	10/22/19 14:30	8270C		MS
1-Methylnaphthalene	<b>0.073</b>	0.040	0.007	mg/kg	40	10/22/19 14:30	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:30	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:30	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:30	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:30	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 14:30	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:30	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:30	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:30	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 14:30	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:30	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/22/19 14:30	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:30	8270C		MS

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401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**S18**

**1910150-18 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:30	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:30	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:30	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:30	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			65.4 %	10.8-154		10/22/19 14:30	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			69.0 %	16.9-156		10/22/19 14:30	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			65.1 %	27-170		10/22/19 14:30	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**Background****1910150-19 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
% Dry Solids	98.2			%	1	10/18/19 15:40	EPA160.3/1684		VJL
<b>Soluble (DI Water Extraction)</b>									
Chloride	<10.2	10.2	1.96	mg/kg dry	10	10/22/19 00:28	EPA300.0		JDA
<b>Saturated Paste Extraction</b>									
Calcium	51.8	0.100	0.013	mg/L	1	10/18/19 19:04	EPA200.7		JDA
Conductivity	358			umho/cm @ 25.0°C	1	10/18/19 15:30	ASA#9 10-3.3		FGH
Magnesium	5.76	0.100	0.019	mg/L	1	10/18/19 19:05	EPA200.7		JDA
pH	7.37			pH Units	1	10/18/19 13:20	ASA#9 12-2.6		VJL
SAR	0.19			No Unit	1	10/18/19 19:04	Calculation		JDA
Sodium	5.40	1.00	0.367	mg/L	1	10/18/19 19:04	EPA200.7		JDA
<b>Total Metals by ICP</b>									
Barium	158	5.00	0.049	mg/kg dry	100	10/22/19 12:47	6010B		JDA
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	10/22/19 12:47	6010B		JDA
Chromium	5.62	5.00	0.075	mg/kg dry	100	10/22/19 12:47	6010B		JDA
Copper	13.4	5.00	0.117	mg/kg dry	100	10/22/19 12:47	6010B		JDA
Lead	11.0	10.0	0.576	mg/kg dry	100	10/22/19 12:47	6010B		JDA
Nickel	6.95	5.00	0.213	mg/kg dry	100	10/22/19 12:47	6010B		JDA
Selenium	<20.0	20.0	1.42	mg/kg dry	100	10/22/19 12:46	6010B		JDA
Silver	<1.00	1.00	0.191	mg/kg dry	100	10/22/19 12:47	6010B		JDA
Zinc	37.0	10.0	0.165	mg/kg dry	100	10/22/19 12:47	6010B		JDA
<b>Total Metals by ICPMS</b>									
Arsenic	3.20	1.00	0.214	mg/kg dry	1000	10/22/19 12:57	6020A		JDA
<b>Total Mercury by CVAA</b>									
Mercury	<0.0408	0.0408	0.0170	mg/kg dry	200	10/18/19 13:06	EPA7471		LLG

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**Background****1910150-19 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	10/18/19 17:58	EPA200.7		JDA
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**Subcontracted -- Cardinal Laboratories****Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:49	8021B		BF
Toluene*	<0.050	0.050	0.002	mg/kg	50	10/17/19 16:49	8021B		BF
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	10/17/19 16:49	8021B		BF
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	10/17/19 16:49	8021B		BF
Total BTEX	<0.300	0.300	0.018	mg/kg	50	10/17/19 16:49	8021B		BF

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129 10/17/19 16:49 8021B BF

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	10/17/19 14:21	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	10/17/19 14:21	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	10/17/19 14:21	8015B		MS

Surrogate: 1-Chlorooctane 88.4 % 41-142 10/17/19 14:21 8015B MS

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147 10/17/19 14:21 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	10/22/19 14:57	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 14:57	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:57	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:57	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:57	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:57	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:57	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 14:57	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:57	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:57	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:57	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	10/22/19 14:57	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:57	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	10/22/19 14:57	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:57	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**Background**

**1910150-19 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories**

**Polynuclear Aromatic Compounds by GC/MS**

<b>Benzo[a]pyrene*</b>	<0.007	0.040	0.007	mg/kg	40	10/22/19 14:57	8270C		MS
<b>Indeno[1,2,3-cd]pyrene*</b>	<0.010	0.040	0.010	mg/kg	40	10/22/19 14:57	8270C		MS
<b>Dibenz[a,h]anthracene*</b>	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:57	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.006	0.040	0.006	mg/kg	40	10/22/19 14:57	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			79.9 %	10.8-154		10/22/19 14:57	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			88.1 %	16.9-156		10/22/19 14:57	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			85.7 %	27-170		10/22/19 14:57	8270C		MS

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B910207 - General Prep - Wet Chem</b>										
<b>Duplicate (B910207-DUP1)</b>		<b>Source: 1910150-01</b>		Prepared & Analyzed: 10/18/19						
% Dry Solids	92.8		%		92.4			0.371	20	
<b>Duplicate (B910207-DUP2)</b>		<b>Source: 1910150-11</b>		Prepared & Analyzed: 10/18/19						
% Dry Solids	94.5		%		93.6			0.984	20	

**Soluble (DI Water Extraction) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B910197 - General Prep - Wet Chem</b>										
<b>Blank (B910197-BLK1)</b>		Prepared: 10/18/19 Analyzed: 10/21/19								
Chloride	ND	1.00	mg/kg wet							
<b>LCS (B910197-BS1)</b>		Prepared: 10/18/19 Analyzed: 10/21/19								
Chloride	248	10.0	mg/kg wet	250		99.2	90-110			
<b>LCS Dup (B910197-BSD1)</b>		Prepared: 10/18/19 Analyzed: 10/21/19								
Chloride	247	10.0	mg/kg wet	250		98.6	90-110	0.578	20	

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**Saturated Paste Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B910203 - Paste Extract**

<b>Duplicate (B910203-DUP1)</b>		<b>Source: 1910150-02</b>		Prepared & Analyzed: 10/18/19						
pH	7.60		pH Units		7.65			0.656	20	

<b>Duplicate (B910203-DUP2)</b>		<b>Source: 1910150-19</b>		Prepared & Analyzed: 10/18/19						
pH	7.47		pH Units		7.37			1.35	20	

**Batch B910204 - Paste Extract**

<b>Duplicate (B910204-DUP1)</b>		<b>Source: 1910150-02</b>		Prepared & Analyzed: 10/18/19						
Conductivity	800		umho/cm @ 25.0°C		810			1.24	20	

<b>Duplicate (B910204-DUP2)</b>		<b>Source: 1910150-19</b>		Prepared & Analyzed: 10/18/19						
Conductivity	366		umho/cm @ 25.0°C		358			2.21	20	

**Batch B910205 - Paste Extract**

<b>Blank (B910205-BLK1)</b>		Prepared & Analyzed: 10/18/19								
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							

<b>Duplicate (B910205-DUP1)</b>		<b>Source: 1910150-02</b>		Prepared & Analyzed: 10/18/19						
Calcium	98.2	0.100	mg/L		82.0			18.1	20	
Magnesium	31.0	0.100	mg/L		25.8			18.3	20	
SAR	0.94		No Unit		0.98			4.17	20	
Sodium	41.7	1.00	mg/L		39.8			4.82	20	

<b>Duplicate (B910205-DUP2)</b>		<b>Source: 1910150-19</b>		Prepared & Analyzed: 10/18/19						
Calcium	54.7	0.100	mg/L		51.8			5.47	20	
Magnesium	6.42	0.100	mg/L		5.76			10.7	20	
SAR	0.18		No Unit		0.19			5.41	20	
Sodium	5.23	1.00	mg/L		5.40			3.27	20	

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Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**Total Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B910199 - EPA 3050**

**Blank (B910199-BLK1)**

Prepared: 10/18/19 Analyzed: 10/22/19

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Copper	ND	5.00	mg/kg dry							
Lead	ND	10.0	mg/kg dry							
Nickel	ND	5.00	mg/kg dry							
Selenium	ND	20.0	mg/kg dry							
Silver	ND	1.00	mg/kg dry							
Zinc	ND	10.0	mg/kg dry							

**LCS (B910199-BS1)**

Prepared: 10/18/19 Analyzed: 10/22/19

Barium	186	5.00	mg/kg dry	200		93.2	80-120			
Cadmium	170	5.00	mg/kg dry	200		85.1	80-120			
Chromium	188	5.00	mg/kg dry	200		94.0	80-120			
Copper	380	5.00	mg/kg dry	400		95.1	80-120			
Lead	172	10.0	mg/kg dry	200		86.1	80-120			
Nickel	175	5.00	mg/kg dry	200		87.7	80-120			
Selenium	740	20.0	mg/kg dry	800		92.5	80-120			
Silver	8.91	1.00	mg/kg dry	10.0		89.1	80-120			
Zinc	163	10.0	mg/kg dry	200		81.3	80-120			

**LCS Dup (B910199-BSD1)**

Prepared: 10/18/19 Analyzed: 10/22/19

Barium	184	5.00	mg/kg dry	200		92.2	80-120	1.12	20	
Cadmium	167	5.00	mg/kg dry	200		83.6	80-120	1.74	20	
Chromium	186	5.00	mg/kg dry	200		92.9	80-120	1.18	20	
Copper	387	5.00	mg/kg dry	400		96.7	80-120	1.65	20	
Lead	170	10.0	mg/kg dry	200		84.9	80-120	1.30	20	
Nickel	173	5.00	mg/kg dry	200		86.5	80-120	1.36	20	
Selenium	739	20.0	mg/kg dry	800		92.3	80-120	0.151	20	
Silver	8.73	1.00	mg/kg dry	10.0		87.3	80-120	2.06	20	
Zinc	160	10.0	mg/kg dry	200		80.0	80-120	1.56	20	

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**Total Metals by ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B910200 - EPA 3050M**

**Blank (B910200-BLK1)**

Prepared: 10/18/19 Analyzed: 10/22/19

Arsenic ND 0.100 mg/kg dry

**LCS (B910200-BS1)**

Prepared: 10/18/19 Analyzed: 10/22/19

Arsenic 5.46 0.100 mg/kg dry 5.00 109 80-120

**LCS Dup (B910200-BSD1)**

Prepared: 10/18/19 Analyzed: 10/22/19

Arsenic 5.32 0.100 mg/kg dry 5.00 106 80-120 2.66 20

**Total Mercury by CVAA - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B910182 - EPA 7471**

**Blank (B910182-BLK1)**

Prepared: 10/16/19 Analyzed: 10/18/19

Mercury ND 0.0002 mg/kg wet

**LCS (B910182-BS1)**

Prepared: 10/16/19 Analyzed: 10/18/19

Mercury 0.0050 0.0002 mg/kg wet 0.00500 99.9 85-115

**LCS Dup (B910182-BSD1)**

Prepared: 10/16/19 Analyzed: 10/18/19

Mercury 0.0051 0.0002 mg/kg wet 0.00500 101 85-115 1.53 20

**Batch B910183 - EPA 7471**

**Blank (B910183-BLK1)**

Prepared: 10/16/19 Analyzed: 10/18/19

Mercury ND 0.0002 mg/kg wet

**LCS (B910183-BS1)**

Prepared: 10/16/19 Analyzed: 10/18/19

Mercury 0.0050 0.0002 mg/kg wet 0.00500 100 85-115

**LCS Dup (B910183-BSD1)**

Prepared: 10/16/19 Analyzed: 10/18/19

Mercury 0.0050 0.0002 mg/kg wet 0.00500 99.8 85-115 0.180 20

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Souder Miller & Associates 401 West Broadway Farmington NM, 87410	Project: Table 910 Project Name / Number: Ute Mountain Ute J#1 Project Manager: Ashley Maxwell	Reported: 10/22/19 17:25
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**Hot Water Extractable - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B910206 - Hot Water Soluble Metals Extract**

**Blank (B910206-BLK1)**

Prepared & Analyzed: 10/18/19

Boron	ND	0.600	mg/L							
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**Duplicate (B910206-DUP1)**

Source: 1910150-01 Prepared & Analyzed: 10/18/19

Boron	0.912	1.20	mg/L		0.974			6.56	200	
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**Duplicate (B910206-DUP2)**

Source: 1910150-10 Prepared & Analyzed: 10/18/19

Boron	0.708	1.20	mg/L		0.739			4.37	200	
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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9101702 - Volatiles

##### Blank (9101702-BLK1)

Prepared &amp; Analyzed: 10/17/19

Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100		104	73.3-129			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

##### LCS (9101702-BS1)

Prepared &amp; Analyzed: 10/17/19

Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100		102	73.3-129			
Benzene	1.63	0.050	mg/kg	2.00		81.3	72.2-131			
Ethylbenzene	1.61	0.050	mg/kg	2.00		80.7	68.9-126			
Toluene	1.67	0.050	mg/kg	2.00		83.3	71.7-126			
Total Xylenes	4.89	0.150	mg/kg	6.00		81.5	71.4-125			

##### LCS Dup (9101702-BSD1)

Prepared &amp; Analyzed: 10/17/19

Surrogate: 4-Bromofluorobenzene (PID)	0.0992		mg/kg	0.100		99.2	73.3-129			
Benzene	1.56	0.050	mg/kg	2.00		77.8	72.2-131	4.43	6.91	
Ethylbenzene	1.56	0.050	mg/kg	2.00		78.2	68.9-126	3.07	7.88	
Toluene	1.61	0.050	mg/kg	2.00		80.4	71.7-126	3.54	7.12	
Total Xylenes	4.77	0.150	mg/kg	6.00		79.5	71.4-125	2.55	7.46	

#### Batch 9101703 - Volatiles

##### Blank (9101703-BLK1)

Prepared &amp; Analyzed: 10/17/19

Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.8	73.3-129			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

##### LCS (9101703-BS1)

Prepared &amp; Analyzed: 10/17/19

Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.3	73.3-129			
Benzene	1.59	0.050	mg/kg	2.00		79.3	72.2-131			
Ethylbenzene	1.61	0.050	mg/kg	2.00		80.3	68.9-126			
Toluene	1.58	0.050	mg/kg	2.00		78.8	71.7-126			
Total Xylenes	4.82	0.150	mg/kg	6.00		80.4	71.4-125			

##### LCS Dup (9101703-BSD1)

Prepared &amp; Analyzed: 10/17/19

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

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**Volatile Organic Compounds by EPA Method 8021 - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9101703 - Volatiles (Continued)**

**LCS Dup (9101703-BS1) (Continued)**

Prepared & Analyzed: 10/17/19

Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500		97.2	73.3-129			
Benzene	1.60	0.050	mg/kg	2.00		80.0	72.2-131	0.819	6.91	
Ethylbenzene	1.62	0.050	mg/kg	2.00		81.1	68.9-126	0.941	7.88	
Toluene	1.59	0.050	mg/kg	2.00		79.6	71.7-126	1.02	7.12	
Total Xylenes	4.85	0.150	mg/kg	6.00		80.9	71.4-125	0.635	7.46	

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

### Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9101608 - General Prep - Organics

##### Blank (9101608-BLK1)

Prepared &amp; Analyzed: 10/16/19

Surrogate: 1-Chlorooctadecane	59.8		mg/kg	50.0		120	37.6-147			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	41-142			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

##### LCS (9101608-BS1)

Prepared &amp; Analyzed: 10/16/19

Surrogate: 1-Chlorooctadecane	60.1		mg/kg	50.0		120	37.6-147			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	41-142			
DRO >C10-C28	219	10.0	mg/kg	200		110	72.9-138			
GRO C6-C10	207	10.0	mg/kg	200		103	76.5-133			
Total TPH C6-C28	426	10.0	mg/kg	400		106	78-132			

##### LCS Dup (9101608-BSD1)

Prepared &amp; Analyzed: 10/16/19

Surrogate: 1-Chlorooctadecane	60.6		mg/kg	50.0		121	37.6-147			
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	41-142			
DRO >C10-C28	215	10.0	mg/kg	200		108	72.9-138	1.90	20.6	
GRO C6-C10	213	10.0	mg/kg	200		107	76.5-133	3.13	20.6	
Total TPH C6-C28	428	10.0	mg/kg	400		107	78-132	0.573	18	

#### Batch 9101709 - General Prep - Organics

##### Blank (9101709-BLK1)

Prepared &amp; Analyzed: 10/17/19

Surrogate: 1-Chlorooctadecane	54.9		mg/kg	50.0		110	37.6-147			
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	41-142			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

##### LCS (9101709-BS1)

Prepared &amp; Analyzed: 10/17/19

Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0		113	37.6-147			
Surrogate: 1-Chlorooctane	61.3		mg/kg	50.0		123	41-142			
DRO >C10-C28	214	10.0	mg/kg	200		107	72.9-138			
GRO C6-C10	214	10.0	mg/kg	200		107	76.5-133			
Total TPH C6-C28	428	10.0	mg/kg	400		107	78-132			

##### LCS Dup (9101709-BSD1)

Prepared &amp; Analyzed: 10/17/19

Surrogate: 1-Chlorooctadecane	58.5		mg/kg	50.0		117	37.6-147			
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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**Petroleum Hydrocarbons by GC FID - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 9101709 - General Prep - Organics (Continued)**

**LCS Dup (9101709-BSD1) (Continued)**

Prepared &amp; Analyzed: 10/17/19

Surrogate: 1-Chlorooctane	63.1		mg/kg	50.0		126	41-142			
DRO >C10-C28	214	10.0	mg/kg	200		107	72.9-138	0.219	20.6	
GRO C6-C10	219	10.0	mg/kg	200		109	76.5-133	2.23	20.6	
Total TPH C6-C28	433	10.0	mg/kg	400		108	78-132	1.01	18	

**Batch 9101710 - General Prep - Organics**

**Blank (9101710-BLK1)**

Prepared &amp; Analyzed: 10/17/19

Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	37.6-147			
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	41-142			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

**LCS (9101710-BS1)**

Prepared &amp; Analyzed: 10/17/19

Surrogate: 1-Chlorooctadecane	60.4		mg/kg	50.0		121	37.6-147			
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	41-142			
DRO >C10-C28	217	10.0	mg/kg	200		109	72.9-138			
GRO C6-C10	213	10.0	mg/kg	200		107	76.5-133			
Total TPH C6-C28	430	10.0	mg/kg	400		108	78-132			

**LCS Dup (9101710-BSD1)**

Prepared &amp; Analyzed: 10/17/19

Surrogate: 1-Chlorooctadecane	58.8		mg/kg	50.0		118	37.6-147			
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	41-142			
DRO >C10-C28	207	10.0	mg/kg	200		103	72.9-138	4.96	20.6	
GRO C6-C10	213	10.0	mg/kg	200		107	76.5-133	0.0685	20.6	
Total TPH C6-C28	420	10.0	mg/kg	400		105	78-132	2.51	18	

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Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

### Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9101715 - SW846-3510

#### Blank (9101715-BLK1)

Prepared: 10/17/19 Analyzed: 10/21/19

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.26		mg/kg	2.00		62.9	16.9-156			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	1.19		mg/kg	2.00		59.5	10.8-154			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.29		mg/kg	2.00		64.5	27-170			

#### LCS (9101715-BS1)

Prepared: 10/17/19 Analyzed: 10/21/19

1-Methylnaphthalene	0.259	0.040	mg/kg	0.400		64.8	60-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.23		mg/kg	2.00		61.4	16.9-156			
2-Methylnaphthalene	0.259	0.040	mg/kg	0.400		64.7	36.1-121			
Acenaphthene	0.251	0.040	mg/kg	0.400		62.7	33.9-127			
Acenaphthylene	0.251	0.040	mg/kg	0.400		62.8	34-126			
Anthracene	0.262	0.040	mg/kg	0.400		65.6	39.4-124			
Benzo[a]anthracene	0.248	0.040	mg/kg	0.400		62.1	40.6-124			
Benzo[a]pyrene	0.270	0.040	mg/kg	0.400		67.5	38.3-127			
Benzo[b]fluoranthene	0.244	0.040	mg/kg	0.400		60.9	34.4-130			
Benzo[g,h,i]perylene	0.300	0.040	mg/kg	0.400		75.0	29.9-134			
Benzo[k]fluoranthene	0.250	0.040	mg/kg	0.400		62.5	35.5-135			
Carbazole	0.260	0.040	mg/kg	0.400		65.1	31.9-133			
Chrysene	0.254	0.040	mg/kg	0.400		63.5	41.3-126			
Dibenz[a,h]anthracene	0.288	0.040	mg/kg	0.400		72.0	35-132			
Fluoranthene	0.246	0.040	mg/kg	0.400		61.6	37.2-123			

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: Table 910  
Project Name / Number: Ute Mountain Ute J#1  
Project Manager: Ashley Maxwell

Reported:  
10/22/19 17:25

**Polynuclear Aromatic Compounds by GC/MS - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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**Batch 9101715 - SW846-3510 (Continued)**

**LCS (9101715-BS1) (Continued)**

Prepared: 10/17/19 Analyzed: 10/21/19

Fluorene	0.249	0.040	mg/kg	0.400		62.2	35.4-127			
Indeno[1,2,3-cd]pyrene	0.298	0.040	mg/kg	0.400		74.4	33.7-132			
Naphthalene	0.262	0.040	mg/kg	0.400		65.5	28.3-127			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.18</i>		mg/kg	<i>2.00</i>		<i>58.8</i>	<i>10.8-154</i>			
Phenanthrene	0.260	0.040	mg/kg	0.400		65.1	40.2-125			
Pyrene	0.283	0.040	mg/kg	0.400		70.6	34.3-133			
<i>Surrogate: Terphenyl-d14</i>	<i>1.34</i>		mg/kg	<i>2.00</i>		<i>67.2</i>	<i>27-170</i>			

**LCS Dup (9101715-BSD1)**

Prepared: 10/17/19 Analyzed: 10/21/19

1-Methylnaphthalene	0.266	0.040	mg/kg	0.400		66.5	60-140	2.67	30	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.26</i>		mg/kg	<i>2.00</i>		<i>63.2</i>	<i>16.9-156</i>			
2-Methylnaphthalene	0.266	0.040	mg/kg	0.400		66.4	36.1-121	2.61	15.9	
Acenaphthene	0.252	0.040	mg/kg	0.400		62.9	33.9-127	0.350	13.1	
Acenaphthylene	0.247	0.040	mg/kg	0.400		61.8	34-126	1.68	14.2	
Anthracene	0.261	0.040	mg/kg	0.400		65.2	39.4-124	0.585	16.3	
Benzo[a]anthracene	0.245	0.040	mg/kg	0.400		61.3	40.6-124	1.28	9.66	
Benzo[a]pyrene	0.274	0.040	mg/kg	0.400		68.6	38.3-127	1.57	11.8	
Benzo[b]fluoranthene	0.260	0.040	mg/kg	0.400		65.0	34.4-130	6.46	25.2	
Benzo[g,h,i]perylene	0.289	0.040	mg/kg	0.400		72.3	29.9-134	3.73	19	
Benzo[k]fluoranthene	0.253	0.040	mg/kg	0.400		63.2	35.5-135	1.25	27.3	
Carbazole	0.259	0.040	mg/kg	0.400		64.8	31.9-133	0.439	20.8	
Chrysene	0.248	0.040	mg/kg	0.400		62.1	41.3-126	2.22	10.6	
Dibenz[a,h]anthracene	0.286	0.040	mg/kg	0.400		71.4	35-132	0.795	15	
Fluoranthene	0.251	0.040	mg/kg	0.400		62.9	37.2-123	2.01	18.3	
Fluorene	0.258	0.040	mg/kg	0.400		64.4	35.4-127	3.44	14.5	
Indeno[1,2,3-cd]pyrene	0.292	0.040	mg/kg	0.400		73.0	33.7-132	1.97	14.9	
Naphthalene	0.266	0.040	mg/kg	0.400		66.6	28.3-127	1.70	11.3	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.18</i>		mg/kg	<i>2.00</i>		<i>58.8</i>	<i>10.8-154</i>			
Phenanthrene	0.260	0.040	mg/kg	0.400		65.1	40.2-125	0.0115	13.7	
Pyrene	0.265	0.040	mg/kg	0.400		66.2	34.3-133	6.45	22.4	
<i>Surrogate: Terphenyl-d14</i>	<i>1.31</i>		mg/kg	<i>2.00</i>		<i>65.7</i>	<i>27-170</i>			

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Souder Miller & Associates 401 West Broadway Farmington NM, 87410	Project: Table 910 Project Name / Number: Ute Mountain Ute J#1 Project Manager: Ashley Maxwell	Reported: 10/22/19 17:25
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Notes and Definitions

- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4220 service@greenanalytical.com or dzufelt@greenanalytical.com
Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

pg 2 of 2

Company or Client: Sauder Miller & Associates
Address: 401 W Broadway
City: Farmington State: NM Zip: 87401
Phone #: 505 325 7535
Contact Person: Ashley Maxwell
Email Report to: ashley.maxwell@saudermiller.com
Project Name(optional): Ute Mountain Ute J#1
Bill to (if different):
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Email:

Table with columns: For Lab Use, Sample Name or Location, Collected (Date, Time), Matrix (GROUNDWATER, SURFACEWATER, WASTEWATER, PRODUCEDWATER, SOIL, DRINKING WATER, OTHER), # of containers. Includes handwritten entries for samples S11-S19 and Background.

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Relinquished By: [Signature] Date: 10/14/19 Time: 1240 Received By: [Signature]
Relinquished By: [Signature] Date: 10/14/19 Time: 1055 Received By: Kangaroo Express
Relinquished By: Kangaroo Express Date: 10/15/19 Time: 0900 Received By: [Signature]
Temperature at Receipt: 17.20 CHECKED BY: [Signature]

\* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

**Standards for Spill Clean-up and Reclamation**  
**Ute Mountain Ute Tribe**  
**2018**

Note: Samples must be collected by a qualified professional and samples analyzed by a qualified laboratory (EPA certification recommended). At a minimum sufficient quality assurance/quality control data should be provided with analyses. These should be sent to Scott Clow, Environmental Programs Director, PO Box 448, Towaoc, CO 81334, or delivered to 520 Sunset Blvd. Towaoc, CO during regular business hours of 8 am to 4:30 pm, Monday through Friday. Other contact information: (970) 564-5432; FAX (970) 565-2651; cellular phone (970) 570-3546.

The Ute Mountain Ute Environmental Programs Department can do sampling on behalf of the Operator/Leasee with the understanding that analytical costs will be reimbursed to the Tribe.

**Pollutant Concentrations in Soil and Water**

CONCENTRATION LEVELS Contaminant of Concern	Concentrations
<b>Organic Compounds in Soil</b>	
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg
Benzene	0.17 mg/kg <sup>2</sup>
Toluene	85 mg/kg <sup>2</sup>
Ethylbenzene	100 mg/kg <sup>2</sup>
Xylenes (total)	175 mg/kg <sup>2</sup>
Acenaphthene	1,000 mg/kg <sup>2</sup>
Anthracene	1,000 mg/kg <sup>2</sup>
Benzo(A)anthracene	0.22 mg/kg <sup>2</sup>
Benzo(B)fluoranthene	0.22 mg/kg <sup>2</sup>
Benzo(K)fluoranthene	2.2 mg/kg <sup>2</sup>
Benzo(A)pyrene	0.022 mg/kg <sup>2</sup>
Chrysene	22 mg/kg <sup>2</sup>
Dibenzo(A,H)anthracene	0.022 mg/kg <sup>2</sup>
Fluoranthene	1,000 mg/kg <sup>2</sup>
Fluorene	1,000 mg/kg <sup>2</sup>
Indeno(1,2,3,C,D)pyrene	0.22 mg/kg <sup>2</sup>
Napthalene	23 mg/kg <sup>2</sup>

Pyrene	1,000 mg/kg <sub>2</sub>
<b>Organic Compounds in Ground Water</b>	
Benzene	<5 µg/l <sub>3</sub>
Toluene	<560 µg/l <sub>3</sub>
Ethylbenzene	<700 µg/l <sub>3</sub>
Xylenes (Total)	<1,400 µg/l <sub>3,4</sub>
<b>Inorganics in Soils</b>	
Electrical Conductivity (EC)	< 1.1x background
Sodium Adsorption Ratio (SAR)	<12 <sub>5</sub>
pH	6-9
<b>Inorganics in Ground Water</b>	
Total Dissolved Solids (TDS)	<1.25 x background <sub>3</sub>
Chlorides	<1.25 x background <sub>3</sub>
Sulfates	<1.25 x background <sub>3</sub>
<b>Metals in Soils</b>	
Arsenic	0.39 mg/kg <sub>2</sub>
Barium (LDNR True Total Barium)	15,000 mg/kg <sub>2</sub>
Boron (Hot Water Soluble)	2 mg/l <sub>3</sub>
Cadmium	70 mg/kg <sub>3,6</sub>
Chromium (III)	120,000 mg/kg <sub>2</sub>
Chromium (VI)	23 mg/kg <sub>2,6</sub>
Copper	3,100 mg/kg <sub>2</sub>
Lead (inorganic)	400 mg/kg <sub>2</sub>
Mercury	23 mg/kg <sub>2</sub>
Nickel (soluble salts)	1,600 mg/kg <sub>2,6</sub>
Selenium	390 mg/kg <sub>2,6</sub>
Silver	390 mg/kg <sub>2</sub>
Zinc	23,000 mg/kg <sub>2,6</sub>
<b>Liquid Hydrocarbons in Soils and Ground Water</b>	
Liquid hydrocarbons including condensate and oil	Below detection level

Chloride	1.0 mg/l	1.0 mg/l
Sulfate	1.0 mg/l	1.0 mg/l
Calcium	1.0 mg/l	1.0 mg/l
Magnesium	1.0 mg/l	1.0 mg/l
Iron	1.0 mg/l	1.0 mg/l
Manganese	1.0 mg/l	1.0 mg/l
Zinc	1.0 mg/l	1.0 mg/l
Copper	1.0 mg/l	1.0 mg/l
Nickel	1.0 mg/l	1.0 mg/l
Lead	1.0 mg/l	1.0 mg/l
Chromium	1.0 mg/l	1.0 mg/l
Mercury	1.0 mg/l	1.0 mg/l
Barium	1.0 mg/l	1.0 mg/l
Fluoride	1.0 mg/l	1.0 mg/l
Strontium	1.0 mg/l	1.0 mg/l
Vanadium	1.0 mg/l	1.0 mg/l
Antimony	1.0 mg/l	1.0 mg/l
Thallium	1.0 mg/l	1.0 mg/l
Chlorine	1.0 mg/l	1.0 mg/l
Bromine	1.0 mg/l	1.0 mg/l
Iodine	1.0 mg/l	1.0 mg/l
Phosphorus	1.0 mg/l	1.0 mg/l
Silicon	1.0 mg/l	1.0 mg/l
Selenium	1.0 mg/l	1.0 mg/l
Vanadium	1.0 mg/l	1.0 mg/l
Antimony	1.0 mg/l	1.0 mg/l
Thallium	1.0 mg/l	1.0 mg/l



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October 18, 2019

Debbie Zufelt

Green Analytical Laboratories

75 Suttle Street

Durango, CO 81303

RE: Table 910

Enclosed are the results of analyses for samples received by the laboratory on 10/16/19 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-01 (S1) (H903513-01)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.63	81.3	2.00	4.43	
Toluene*	<0.050	0.050	10/17/2019	ND	1.67	83.3	2.00	3.54	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.7	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.89	81.5	6.00	2.55	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	207	103	200	3.13	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	219	110	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-02 (S2) (H903513-02)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2019	ND	1.63	81.3	2.00	4.43		
Toluene*	<0.050	0.050	10/17/2019	ND	1.67	83.3	2.00	3.54		
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.7	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.89	81.5	6.00	2.55		
Total BTEX	<0.300	0.300	10/17/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	207	103	200	3.13		
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	219	110	200	1.90		
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND						

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-03 (S3) (H903513-03)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.63	81.3	2.00	4.43	
<b>Toluene*</b>	<b>0.086</b>	0.050	10/17/2019	ND	1.67	83.3	2.00	3.54	
<b>Ethylbenzene*</b>	<b>0.068</b>	0.050	10/17/2019	ND	1.61	80.7	2.00	3.07	
<b>Total Xylenes*</b>	<b>0.818</b>	0.150	10/17/2019	ND	4.89	81.5	6.00	2.55	
<b>Total BTEX</b>	<b>0.972</b>	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	207	103	200	3.13	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	219	110	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-04 (S4) (H903513-04)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.63	81.3	2.00	4.43	
Toluene*	<0.050	0.050	10/17/2019	ND	1.67	83.3	2.00	3.54	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.7	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.89	81.5	6.00	2.55	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	207	103	200	3.13	
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	219	110	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-05 (S5) (H903513-05)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2019	ND	1.63	81.3	2.00	4.43		
Toluene*	<0.050	0.050	10/17/2019	ND	1.67	83.3	2.00	3.54		
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.7	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.89	81.5	6.00	2.55		
Total BTEX	<0.300	0.300	10/17/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/16/2019	ND	207	103	200	3.13		
DRO >C10-C28*	<10.0	10.0	10/16/2019	ND	219	110	200	1.90		
EXT DRO >C28-C36	<10.0	10.0	10/16/2019	ND						

Surrogate: 1-Chlorooctane 76.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147

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 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-06 (S6) (H903513-06)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819	
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

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 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-07 (S7) (H903513-07)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819	
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 74.8 % 37.6-147

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 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-08 (S8) (H903513-08)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819	
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 90.5 % 37.6-147

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Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-09 (S9) (H903513-09)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819	
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941	
<b>Total Xylenes*</b>	<b>0.254</b>	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 74.8 % 41-142

Surrogate: 1-Chlorooctadecane 68.0 % 37.6-147

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Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-10 (S10) (H903513-10)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819		
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941		
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635		
Total BTEX	<0.300	0.300	10/17/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23		
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219		
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 77.4 % 37.6-147

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Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-11 (S11) (H903513-11)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819		
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941		
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635		
Total BTEX	<0.300	0.300	10/17/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23		
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219		
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 54.2 % 41-142

Surrogate: 1-Chlorooctadecane 47.6 % 37.6-147

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 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-12 (S12) (H903513-12)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819		
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941		
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635		
Total BTEX	<0.300	0.300	10/17/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23		
<b>DRO &gt;C10-C28*</b>	<b>13.7</b>	10.0	10/17/2019	ND	214	107	200	0.219		
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-13 (S13) (H903513-13)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819		
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941		
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635		
Total BTEX	<0.300	0.300	10/17/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23		
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219		
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 72.7 % 37.6-147

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 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-14 (S14) (H903513-14)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819	
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 81.6 % 41-142

Surrogate: 1-Chlorooctadecane 71.5 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-15 (S15) (H903513-15)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819		
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941		
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635		
Total BTEX	<0.300	0.300	10/17/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23		
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219		
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 85.2 % 41-142

Surrogate: 1-Chlorooctadecane 75.1 % 37.6-147

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**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received: 10/16/2019  
 Reported: 10/18/2019  
 Project Name: Table 910  
 Project Number: 1910150  
 Project Location: NOT GIVEN

Sampling Date: 10/14/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 1910150-16 (S16) (H903513-16)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819	
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 77.3 % 41-142

Surrogate: 1-Chlorooctadecane 69.2 % 37.6-147

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**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-17 (S17) (H903513-17)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.3	2.00	0.819	
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.3	2.00	0.941	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.4	6.00	0.635	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 69.9 % 37.6-147

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**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-18 (S18) (H903513-18)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.63	81.3	2.00	4.43	
Toluene*	<0.050	0.050	10/17/2019	ND	1.67	83.3	2.00	3.54	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.7	2.00	3.07	
<b>Total Xylenes*</b>	<b>0.221</b>	0.150	10/17/2019	ND	4.89	81.5	6.00	2.55	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	214	107	200	2.23	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	214	107	200	0.219	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 78.7 % 37.6-147

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**Analytical Results For:**

Green Analytical Laboratories  
 Debbie Zufelt  
 75 Suttle Street  
 Durango CO, 81303  
 Fax To: (970) 247-4227

Received:	10/16/2019	Sampling Date:	10/14/2019
Reported:	10/18/2019	Sampling Type:	Soil
Project Name:	Table 910	Sampling Condition:	Cool & Intact
Project Number:	1910150	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: 1910150-19 (Background) (H903513-19)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.63	81.3	2.00	4.43	
Toluene*	<0.050	0.050	10/17/2019	ND	1.67	83.3	2.00	3.54	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.61	80.7	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.89	81.5	6.00	2.55	
Total BTEX	<0.300	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	213	107	200	0.0685	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	217	109	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

service@greenanalytical.com or dzuffelt@greenanalytical.com  
 75 Suttle St Durango, CO 81303  
 (970) 247-4220  
 Fax: (970) 247-4227

pg 10f2

Company Name (if Applicable): **GREEN ANALYTICAL**  
 Contact Person: **Debbie Zuffelt**  
 Address: **75 Suttle St**  
 City: **Durango** State: **CO** Zip: **81303**  
 Phone #: **970-247-4220**  
 Email: **dzuffelt@greenanalytical.com**  
 Project Name (optional): **Southern, Wilson, & Assoc.**  
 Project Number (optional): **6419-407**  
 Sampler Name (Print): **Ashley Maxwell**  
 Collected: **10/14/19**  
 Matrix (check one):  SOIL  
 GROUNDWATER  
 SURFACEWATER  
 WASTEWATER  
 PRODUCEDWATER  
 DRINKING WATER  
 OTHER:  No preservation (general)  
 HNO<sub>3</sub>  
 HCl  
 H<sub>2</sub>SO<sub>4</sub>  
 Other:  Other:  
 # of containers:  1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 P.O. #:  Bill to (if different):  
 ANALYSIS REQUEST

Sample Name or Location	Date	Time	For Lab Use
	10/14/19	0942	H903513
		0945	-02
		0947	-03
		0948	-04
		0949	-05
		0950	-06
		0951	-07
		0952	-08
		0953	-09
		0954	-10
		0955	59
		0956	510

10 9 8 7 6 5 4 3 2 1

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Received By: **10/15/19** Time: **1600**  
 Received By: **10-16-19** Time: **10:00**  
 Received By: **Jamara Reddy**  
 Delivered By: (Circle One) **FedEx - Kangaroo - Other:**  
 Sampler - UPS  
 Temperature at receipt: **2.9°C**  
 CHECKED BY: **#97 collected 3.3c TO**  
 ADDITIONAL REMARKS: **Busk added to all 10/17/19**  
 PAH down to MDL  
 Report to State? (Circle) **No**  
 † GAL cannot always accept verbal changes. Please fax or email written change requests.  
 \* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name (if Applicable): GREEN ANALYTICAL  
Contact Person: Debbie Zuffelt  
Address: 75 Suttle St  
City: Durango State: CO zip: 81303  
Phone #: 970-247-4220  
Email: dzuffelt@greenanalytical.com  
Project Name (optional): Souda, Miller, & Assoc.  
Project Number (optional): 9419-403  
Sampler Name (Print): Ashury Maxwell

Form fields for company and project information including fields for Name, Address, City, State, Zip, Phone, Email, Project Name, Project Number, Sampler Name, and Matrix type (Groundwater, Surfacewater, Wastewater, Producedwater, Soil, Drinking Water, Other).

Table with columns for Sample Name or Location, Date, and Matrix type. Includes handwritten entries for 'Background' and 'Time' samples.

Form for delivery and receipt information including fields for Delivered By, Relinquished By, Date, Time, and Signature. Includes handwritten notes and signatures.

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75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
www.greenanalytical.com

22 November 2019

Ashley Maxwell  
Souder Miller & Associates  
401 West Broadway  
Farmington, NM 87410  
RE: As, EC

Enclosed are the results of analyses for samples received by the laboratory on 11/15/19 13:25.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Debbie Zufelt". The signature is written in a cursive, flowing style.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at

<http://greenanalytical.com/certifications/>

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Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: As, EC  
Project Name / Number: Ute Mountain J #1  
Project Manager: Ashley Maxwell

Reported:  
11/22/19 13:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Background #2 2'	1911182-01	Solid	11/15/19 10:27	11/15/19 13:25	
Background #3 3'	1911182-02	Solid	11/15/19 10:35	11/15/19 13:25	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

Released to Imaging: 5/19/2022 10:11:19 AM

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Souder Miller & Associates 401 West Broadway Farmington NM, 87410	Project: As, EC Project Name / Number: Ute Mountain J #1 Project Manager: Ashley Maxwell	<b>Reported:</b> 11/22/19 13:52
---	--	------------------------------------

**Background #2 2'**

**1911182-01 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Conductivity	1120			umho/cm @ 25.0°C	1	11/20/19 14:15	ASA#9 10-3.3		VJL
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**Total Metals by ICPMS**

Arsenic	14.1	1.00	0.214	mg/kg dry	1000	11/22/19 13:01	6020A		AES
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Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Souder Miller & Associates 401 West Broadway Farmington NM, 87410	Project: As, EC Project Name / Number: Ute Mountain J #1 Project Manager: Ashley Maxwell	<b>Reported:</b> 11/22/19 13:52
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**Background #3 3'**

**1911182-02 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Conductivity	410			umho/cm @ 25.0°C	1	11/20/19 14:15	ASA#9 10-3.3		VJL
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**Total Metals by ICPMS**

Arsenic	11.1	1.00	0.214	mg/kg dry	1000	11/22/19 13:05	6020A		AES
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Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Souder Miller & Associates  
401 West Broadway  
Farmington NM, 87410

Project: As, EC  
Project Name / Number: Ute Mountain J #1  
Project Manager: Ashley Maxwell

Reported:  
11/22/19 13:52

**Saturated Paste Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B911190 - Paste Extract**

<b>Duplicate (B911190-DUP1)</b>	<b>Source: 1911173-01</b>		Prepared: 11/19/19		Analyzed: 11/20/19					
Conductivity	333		umho/cm @ 25.0°C		344			3.25	20	

**Total Metals by ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B911224 - EPA 3050M**

**Blank (B911224-BLK1)** Prepared: 11/21/19 Analyzed: 11/22/19

Arsenic ND 0.100 mg/kg dry

**LCS (B911224-BS1)** Prepared: 11/21/19 Analyzed: 11/22/19

Arsenic 4.96 0.100 mg/kg dry 5.00 99.3 80-120

**LCS Dup (B911224-BSD1)** Prepared: 11/21/19 Analyzed: 11/22/19

Arsenic 5.01 0.100 mg/kg dry 5.00 100 80-120 0.907 20

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Debbie Zufelt, Reports Manager

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Project: As, EC  
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Project Manager: Ashley Maxwell

Reported:  
11/22/19 13:52

Notes and Definitions

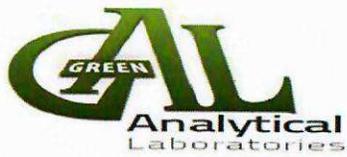
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

Released to Imaging: 5/19/2022 10:11:19 AM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4220
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

Company or Client: SMA
Address: 401 W Broadway
City: Farmington State: NM Zip: 87401
Phone #: 505 825 7535
Contact Person: Ashley Maxwell
Email Report to: ashley.maxwell@scaidermiller.com
Project Name(optional): Life Mountain J #1
Bill to (if different):
ANALYSIS REQUEST

Table with columns: For Lab Use, Sample Name or Location, Collected (Date, Time), Matrix (GROUNDWATER, SURFACEWATER, WASTEWATER, PRODUCEDWATER, SOIL, DRINKING WATER, OTHER), # of containers (No preservation, HNO3, HCl, H2SO4, Other), and Analysis Request columns. Includes handwritten entries for Background #2 and #3.

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion.

Relinquished By: [Signature] Date: 11/15/19 Time: 1:25 Received By: Christine Clark
Relinquished By: CC Date: 11-16-19 Time: 1:22 Received By: Delanie Zufert
ADDITIONAL REMARKS: Report to State? (Circle) Yes No
Updated to PUSH on 11/20/19 per A.M.
17.3 C on 11/20/19
CHECKED BY: CC

\* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

APPENDIX E  
APPROVED ENGINEERED  
RECLAMATION  
AND  
REVEGETATION PLAN  
AND CORRESPONDENCE

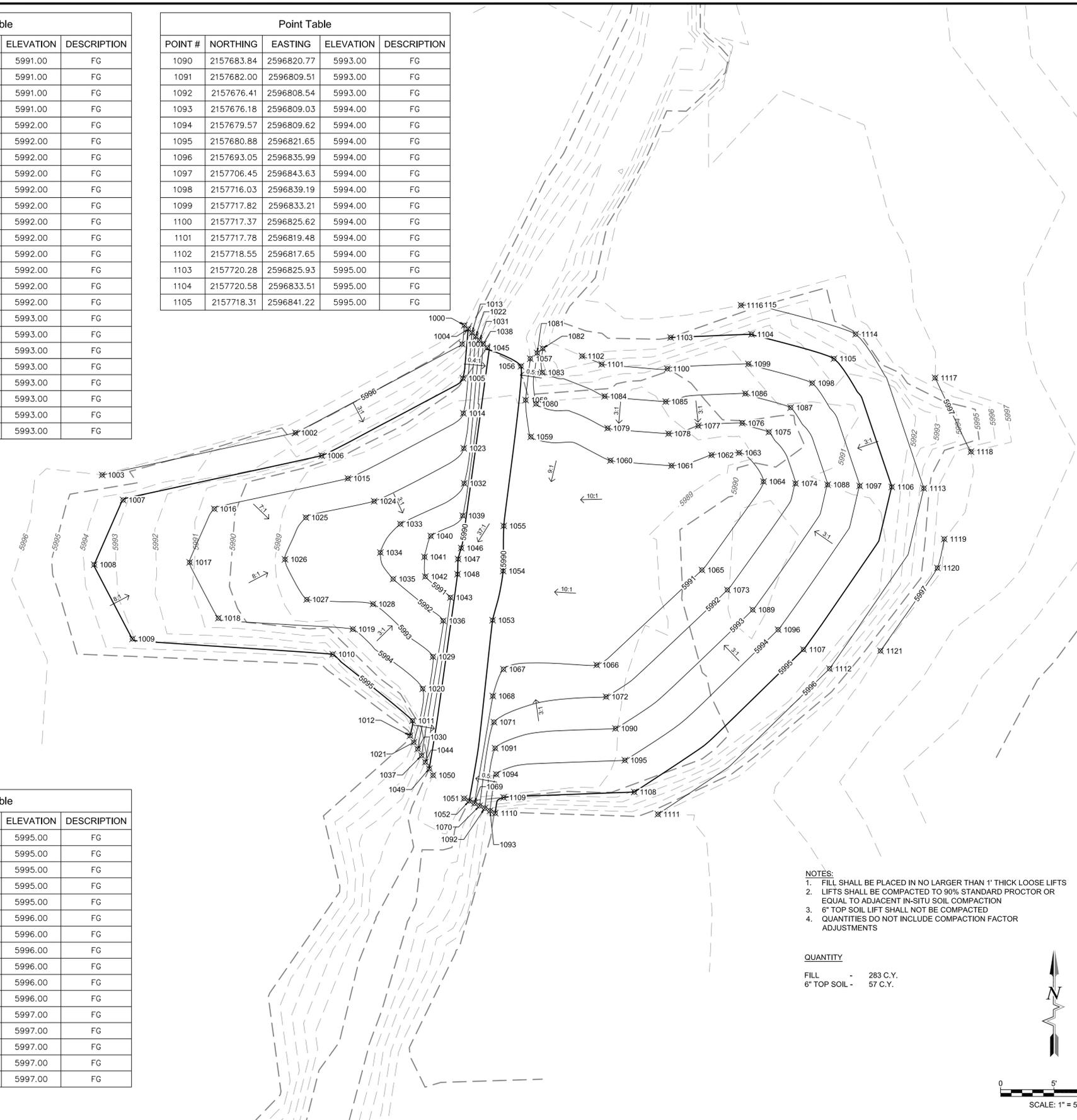


Point Table				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	2157721.42	2596806.63	5996.00	FG
1001	2157719.67	2596806.42	5996.00	FG
1002	2157711.40	2596790.82	5996.00	FG
1003	2157707.47	2596772.74	5996.00	FG
1004	2157721.07	2596806.98	5995.00	FG
1005	2157716.48	2596806.49	5995.00	FG
1006	2157709.27	2596793.28	5995.00	FG
1007	2157705.14	2596774.69	5995.00	FG
1008	2157699.11	2596771.99	5995.00	FG
1009	2157692.19	2596775.57	5995.00	FG
1010	2157690.76	2596794.31	5995.00	FG
1011	2157684.56	2596801.77	5995.00	FG
1012	2157683.17	2596801.54	5995.00	FG
1013	2157720.73	2596807.34	5994.00	FG
1014	2157713.22	2596806.53	5994.00	FG
1015	2157707.15	2596795.73	5994.00	FG
1016	2157704.31	2596783.23	5994.01	FG
1017	2157699.33	2596780.92	5994.00	FG
1018	2157694.13	2596783.61	5994.01	FG
1019	2157693.10	2596796.19	5994.00	FG
1020	2157687.54	2596802.73	5994.00	FG
1021	2157682.55	2596801.90	5994.00	FG
1022	2157720.38	2596807.69	5993.00	FG
1023	2157709.95	2596806.57	5993.00	FG
1024	2157705.03	2596798.19	5993.00	FG
1025	2157703.50	2596791.80	5993.01	FG
1026	2157699.60	2596789.84	5993.00	FG
1027	2157695.86	2596791.88	5993.00	FG
1028	2157695.44	2596798.08	5993.00	FG
1029	2157690.52	2596803.69	5993.00	FG
1030	2157681.94	2596802.26	5993.00	FG
1031	2157720.03	2596808.05	5992.00	FG
1032	2157706.69	2596806.61	5992.00	FG
1033	2157702.90	2596800.64	5992.00	FG
1034	2157700.24	2596798.77	5992.00	FG
1035	2157697.78	2596799.97	5992.00	FG
1036	2157693.88	2596804.65	5992.00	FG
1037	2157681.32	2596802.62	5992.00	FG
1038	2157719.68	2596808.40	5991.00	FG
1039	2157703.67	2596806.47	5991.00	FG
1040	2157701.78	2596803.49	5991.00	FG
1041	2157699.83	2596802.90	5991.00	FG
1042	2157698.00	2596802.98	5991.00	FG
1043	2157696.05	2596805.32	5991.00	FG
1044	2157680.71	2596802.98	5991.00	FG
1045	2157719.32	2596808.77	5989.97	FG
1046	2157700.66	2596806.33	5990.00	FG
1047	2157699.63	2596806.04	5990.00	FG
1048	2157698.22	2596805.99	5990.00	FG
1049	2157680.10	2596803.34	5990.00	FG
1050	2157679.48	2596803.70	5989.00	FG
1051	2157677.32	2596806.60	5989.00	FG
1052	2157677.09	2596807.08	5990.00	FG
1053	2157693.93	2596809.27	5990.00	FG
1054	2157698.52	2596810.26	5990.00	FG
1055	2157702.72	2596810.32	5990.00	FG
1056	2157717.61	2596811.93	5990.00	FG
1057	2157718.31	2596812.80	5991.00	FG
1058	2157714.45	2596812.36	5991.00	FG
1059	2157711.03	2596812.84	5991.00	FG
1060	2157708.82	2596820.30	5991.00	FG
1061	2157708.33	2596826.01	5991.00	FG
1062	2157709.33	2596829.76	5991.00	FG
1063	2157709.54	2596832.34	5991.00	FG
1064	2157706.85	2596834.63	5991.00	FG
1065	2157698.61	2596828.87	5991.00	FG

Point Table				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1066	2157689.76	2596819.02	5991.00	FG
1067	2157689.37	2596810.29	5991.00	FG
1068	2157686.87	2596809.30	5991.00	FG
1069	2157676.86	2596807.57	5991.00	FG
1070	2157676.63	2596808.06	5992.00	FG
1071	2157684.43	2596809.40	5992.00	FG
1072	2157686.80	2596819.89	5992.00	FG
1073	2157696.76	2596831.24	5992.00	FG
1074	2157706.68	2596837.62	5992.00	FG
1075	2157711.46	2596835.13	5992.00	FG
1076	2157712.30	2596832.63	5992.00	FG
1077	2157712.06	2596828.52	5992.00	FG
1078	2157711.32	2596825.74	5992.00	FG
1079	2157711.83	2596820.04	5992.00	FG
1080	2157714.10	2596813.34	5992.00	FG
1081	2157718.83	2596813.45	5992.00	FG
1082	2157719.26	2596813.97	5993.00	FG
1083	2157717.02	2596813.92	5993.00	FG
1084	2157714.81	2596819.76	5993.00	FG
1085	2157714.31	2596825.47	5993.00	FG
1086	2157715.06	2596832.92	5993.00	FG
1087	2157713.75	2596837.16	5993.00	FG
1088	2157706.56	2596840.63	5993.00	FG
1089	2157694.91	2596833.62	5993.00	FG

Point Table				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1090	2157683.84	2596820.77	5993.00	FG
1091	2157682.00	2596809.51	5993.00	FG
1092	2157676.41	2596808.54	5993.00	FG
1093	2157676.18	2596809.03	5994.00	FG
1094	2157679.57	2596809.62	5994.00	FG
1095	2157680.88	2596821.65	5994.00	FG
1096	2157693.05	2596835.99	5994.00	FG
1097	2157706.45	2596843.63	5994.00	FG
1098	2157716.03	2596839.19	5994.00	FG
1099	2157717.82	2596833.21	5994.00	FG
1100	2157717.37	2596825.62	5994.00	FG
1101	2157717.78	2596819.48	5994.00	FG
1102	2157718.55	2596817.65	5994.00	FG
1103	2157720.28	2596825.93	5995.00	FG
1104	2157720.58	2596833.51	5995.00	FG
1105	2157718.31	2596841.22	5995.00	FG

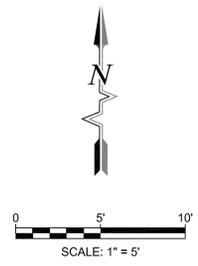
Point Table				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1106	2157706.35	2596846.63	5995.00	FG
1107	2157691.20	2596838.37	5995.00	FG
1108	2157677.92	2596822.53	5995.00	FG
1109	2157677.41	2596810.31	5995.00	FG
1110	2157675.95	2596809.52	5995.00	FG
1111	2157675.85	2596824.74	5996.00	FG
1112	2157689.41	2596840.80	5996.00	FG
1113	2157706.22	2596849.63	5996.00	FG
1114	2157720.59	2596843.25	5996.00	FG
1115	2157723.34	2596833.78	5996.00	FG
1116	2157723.29	2596832.52	5996.00	FG
1117	2157716.52	2596850.69	5997.00	FG
1118	2157709.64	2596854.04	5997.00	FG
1119	2157701.49	2596851.54	5997.00	FG
1120	2157698.80	2596850.90	5997.00	FG
1121	2157691.08	2596845.58	5997.00	FG



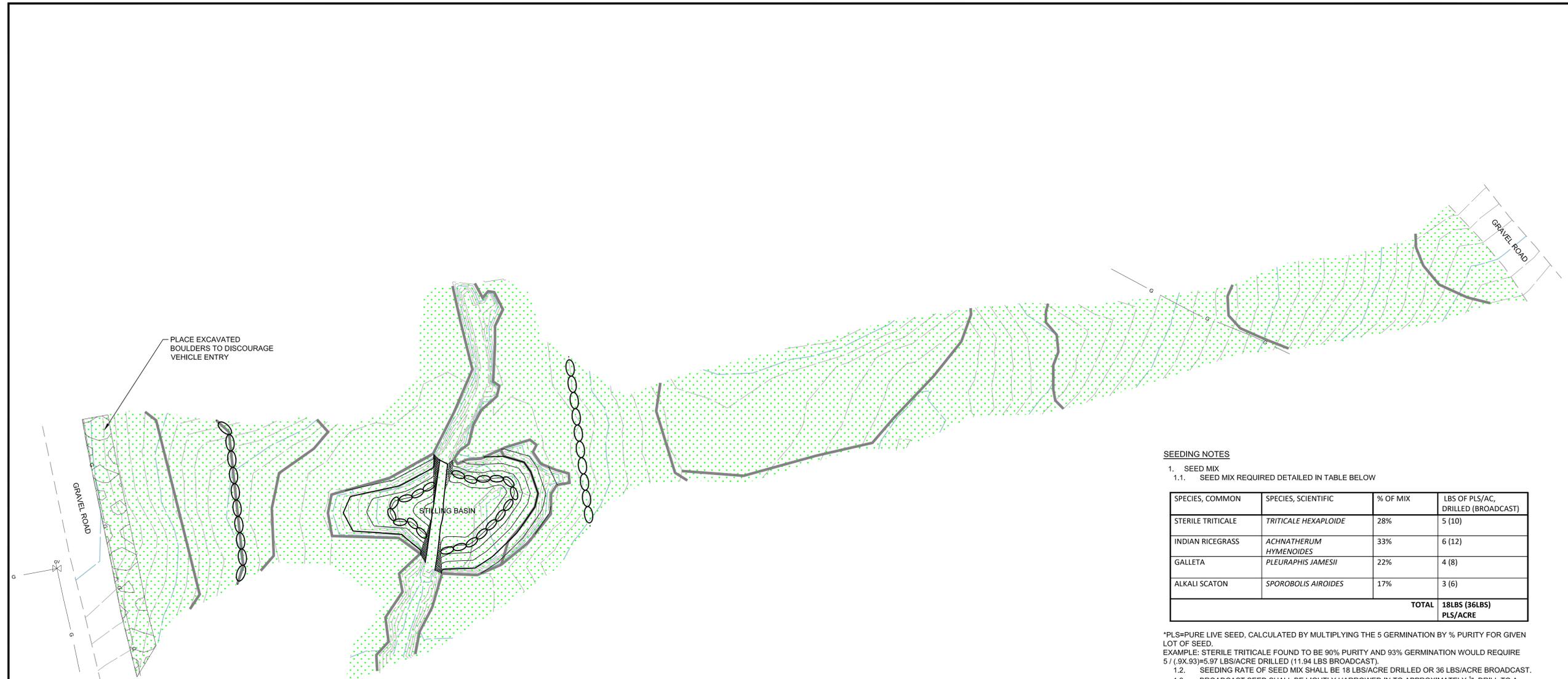
- NOTES:**
1. FILL SHALL BE PLACED IN NO LARGER THAN 1' THICK LOOSE LIFTS
  2. LIFTS SHALL BE COMPACTED TO 90% STANDARD PROCTOR OR EQUAL TO ADJACENT IN-SITU SOIL COMPACTION
  3. 6" TOP SOIL LIFT SHALL NOT BE COMPACTED
  4. QUANTITIES DO NOT INCLUDE COMPACTION FACTOR ADJUSTMENTS

**QUANTITY**

FILL	-	283 C.Y.
6" TOP SOIL	-	57 C.Y.



By	CHKD
Description	
Rev #	Date
<p><b>SOUDER, MILLER &amp; ASSOCIATES</b>          Engineering • Environmental • Geomatics          Serving the Southwest &amp; Rocky Mountains          401 West Broadway Avenue          Farmington, NM 87401          Phone (505) 325-3335 Toll-Free (800) 519-0098 Fax (505) 324-0045          www.soudermiller.com</p>	
<p>ENTERPRISE FIELD SERVICES, LLC          FARMINGTON, NM</p>	
<p><b>UTE MOUNTAIN #1 PIPELINE RELEASE          REHABILITATION AND RESEEDING PLAN          GRADING PLAN</b></p>	
<p>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p>	
Designed	Drawn
DWMJR	DJB
Checked	HDM
Date:	December 2019
Scale:	Horiz: 1" = 5' Vert: N/A
Project No:	5127965
Sheet:	C-101

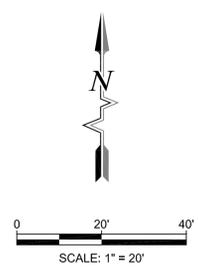


**NOTES:**  
SEE SHEET C-103 FOR EROSION CONTROL DETAILS

**BASIS OF BEARINGS**  
REFERENCE FRAME: NAD1983 (2011)  
ZONE: MODIFIED STATE PLANE, NEW MEXICO WEST  
VERTICAL DATUM: NAVD88 (COMPLETED USING GEOID 12B)  
GRID TO GROUND SCALE FACTOR: 1.0003498127  
ORIGIN OF SCALE:  
N = 2157637.708  
E = 2596602.079  
ELEVATIONS USED FOR SCALE:  
6020.668'  
CONVERGENCE: -0.26001667  
ALL DISTANCES ARE GROUND DISTANCES

**LEGEND**

	NATURAL GAS DOGLEG
	CONTOUR, 1 FT INTERVALS
	NATURAL GAS LINE
	FIBER ROLL
	STRAWBALE
	SEEDING
	BOULDERS
	SLOPE PROTECTION



**SEEDING NOTES**

1. SEED MIX
  - 1.1. SEED MIX REQUIRED DETAILED IN TABLE BELOW

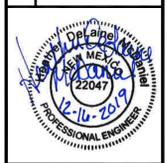
SPECIES, COMMON	SPECIES, SCIENTIFIC	% OF MIX	LBS OF PLS/AC, DRILLED (BROADCAST)
STERILE TRITICALE	<i>TRITICALE HEXAPLOIDE</i>	28%	5 (10)
INDIAN RICEGRASS	<i>ACHNATHERUM HYMENOIDES</i>	33%	6 (12)
GALLETA	<i>PLEURAPHIS JAMESII</i>	22%	4 (8)
ALKALI SCATON	<i>SPOROBOLIS AIROIDES</i>	17%	3 (6)
<b>TOTAL</b>			<b>18LBS (36LBS) PLS/ACRE</b>

- \*PLS=PURE LIVE SEED, CALCULATED BY MULTIPLYING THE 5 GERMINATION BY % PURITY FOR GIVEN LOT OF SEED.  
EXAMPLE: STERILE TRITICALE FOUND TO BE 90% PURITY AND 93% GERMINATION WOULD REQUIRE 5 / (.9X.93)=5.97 LBS/ACRE DRILLED (11.94 LBS BROADCAST).
- 1.2. SEEDING RATE OF SEED MIX SHALL BE 18 LBS/ACRE DRILLED OR 36 LBS/ACRE BROADCAST.
  - 1.3. BROADCAST SEED SHALL BE LIGHTLY HARROWED IN TO APPROXIMATELY 1/4". DRILL TO A DEPTH 1/2".
  - 1.4. DO NOT SOW IN SEED IMMEDIATELY FOLLOWING RAIN, REAL DRY SOIL, OR IN WINDS OVER 12MPH.
  - 1.5. DO NOT SEED MORE IN ONE DAY THAN CAN BE MULCHED THAT SAME DAY.
  - 1.6. IMMEDIATELY FOLLOWING SEEDING AND DRAGGING, APPLY MULCH AND APPLY WATER WITH A FINE SPRAY UNTIL 4" OF SOIL HAVE BEEN SATURATED.
  - 1.7. DATES OF SEEDING ARE RECOMMENDED TO CORRESPOND TO A HIGH PROBABILITY OF RECEIVING EFFECTIVE PRECIPITATION (60% CHANCE OF RECEIVING 0.6-1.0 INCHES WITHIN A 3 WEEK PERIOD). ALTERNATIVELY, THE SEEDED AREA CAN BE WATERED 3 WEEKS AFTER PLANTING TO ACHIEVE THE SAME EFFECTIVE RAINFALL.
  2. SOIL
    - 2.1. ALL SOIL SHALL BE FREE OF CONTAMINATION
    - 2.2. MAINTAIN CONTOURS AND ENSURE GRADE CHANGES ARE GRADUAL PER PLAN.
    - 2.3. FILL OPERATIONS AND TOPSOIL SHALL NOT BE MIXED WITH SAGEBRUSH DEBRIS WHICH MAY IMPEDE SEED GERMINATION.
    - 2.4. SOIL IN THE TOP 6" SHALL BE TOPSOIL TO PROVIDE A SEEDBED FOR VEGETATION.
    - 2.5. THE TOPSOIL SHALL BE GRADED PER PLAN, RAKED IN SMOOTH, AND NOT COMPACTED.
  3. MULCH
    - 3.1. MULCHING MATERIAL SHALL BE DRY OAT OR WHEAT STRAW, FREE FROM WEEDS AND FOREIGN MATTER DETRIMENTAL TO PLANT LIFE.
    - 3.2. 50% BY WEIGHT OF THE MULCH SHALL BE 10" OR LONGER.
    - 3.3. HAY OR CHOPPED CORN STALKS ARE NOT ACCEPTABLE.
    - 3.4. MULCH SHALL BE CRIMPED IN WITH A CRIMPER OR BY HAND. ALTERNATIVELY A TACKIFIER MAY BE USED.
    - 3.5. APPLY MULCH AT A RATE OF 2 TONS PER ACRE.
    - 3.6. APPLY WATER WITH A FINE SPRAY UNTIL 4" OF SOIL HAVE BEEN SATURATED.
  4. SEED PROTECTION
    - 4.1. ANY SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH EROSION FABRIC INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
    - 4.2. ROLL SECTIONS SHALL BE ANCHORED A MINIMUM OF 6" ON THE TOP WITH 12" OVERLAP AT SEAMS. SECURE EDGES WITH NON-TREATED WOODEN STAKES EVERY 36".
    - 4.3. TEMPORARY BMPs SHALL BE INSTALLED PER PLAN IN ACCORDANCE WITH THE DETAILS TO PROTECT THE REVEGETATION EFFORT.
  5. MAINTENANCE
    - 5.1. IMMEDIATELY RESEED AREAS SHOWING BARE SPOTS.
    - 5.2. AFTER THE FIRST FULL SEASON OF GROWTH (NOT THE FIRST YEAR) THE COVER SHOULD BE SUBSTANTIALLY ESTABLISHED. RESEED IF SUBSTANTIAL ESTABLISHMENT HASNT OCCURRED.
    - 5.3. REPAIR WASHOUTS OR GULLIES.
    - 5.4. PROTECT SEEDED AREAS WITH WARNING SIGNS DURING MAINTENANCE PERIOD.
    - 5.5. MAINTENANCE PERIOD SHALL BE IN ACCORDANCE WITH BLM STANDARDS.

Rev #	Date	Description	By

**SMA**  
SOUDEY, MILLER & ASSOCIATES  
Engineering • Environmental • Geomatics  
Serving the Southwest & Rocky Mountains  
401 West Broadway Avenue  
Farmington, NM 87401  
Phone (505) 325-7335 Toll-Free (800) 519-0098 Fax (505) 326-0045  
www.soudermiller.com

ENTERPRISE FIELD SERVICES, LLC  
FARMINGTON, NM  
**UTE MOUNTAIN #1 PIPELINE RELEASE REHABILITATION AND RESEEDING PLAN EROSION CONTROL PLAN**



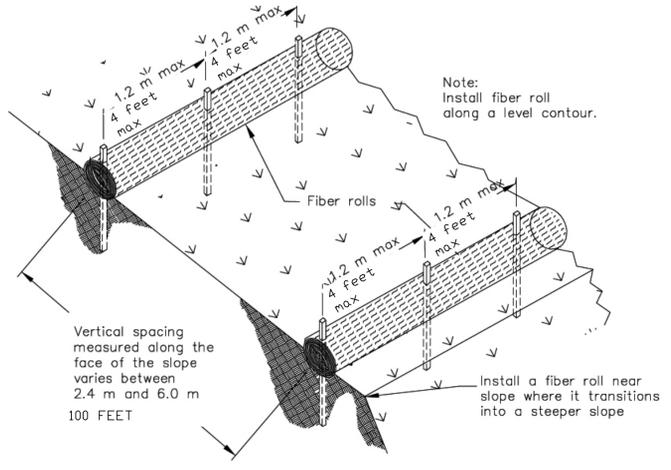
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed DWM/JR	Drawn DJB	Checked HDM
--------------------	--------------	----------------

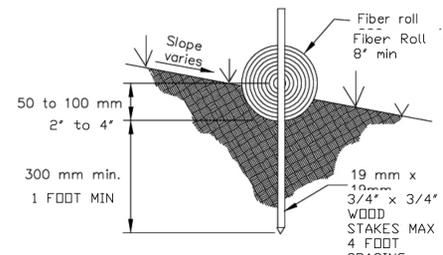
Date: December 2019  
Scale: Horiz: 1" = 20'  
Vert: N/A

Project No: 5127965

Sheet: C-102

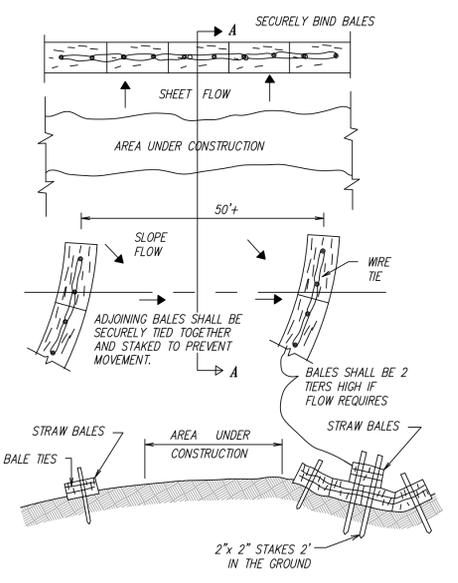


TYPICAL FIBER ROLL INSTALLATION  
N.T.S.

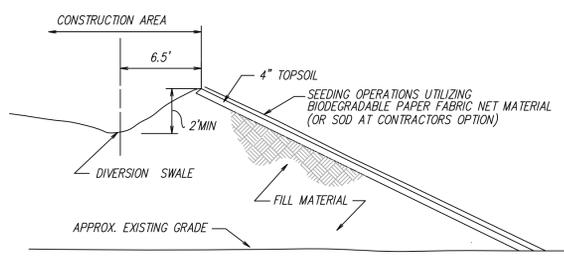


ENTRENCHMENT DETAIL  
N.T.S.

1 TEMPORARY FIBRE ROLL DETAIL  
NOT TO SCALE



SECTION A-A  
2 STRAW BALE SEDIMENT BARRIER  
NOT TO SCALE



3 SLOPE PROTECTION  
NOT TO SCALE

Rev #	Date	Description	By	CHKD

**SMA**  
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Engineering • Environmental • Geomatics  
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Phone (505) 325-7335 Toll-Free (800) 519-0098 Fax (505) 324-0045  
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ENTERPRISE FIELD SERVICES, LLC  
FARMINGTON, NM  
UTE MOUNTAIN #1 PIPELINE RELEASE  
REHABILITATION AND RESEEDING PLAN  
EROSION CONTROL DETAILS



THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
DWMJR	DJB	HDM

Date: December 2019  
Scale: Horiz: AS NOTED  
Vert: N/A

Project No: 5127965

Sheet: C-103

**From:** [Long, Thomas](#)  
**To:** ["sclow@utemountain.org"](mailto:sclow@utemountain.org)  
**Cc:** [Stone, Brian](#)  
**Subject:** FW: Ute Mountain J #1 - UL K Section 1 T31N R14W; 36.928810, -108.26548  
**Date:** Wednesday, January 22, 2020 12:15:00 PM  
**Attachments:** [NW20-Response Operations for Oil and Hazardous Substances \(1\).pdf](#)

---

Scott,

Will the Tribe be waiving additional water quality management measure since Enterprise has remediated/mitigated the impacts from the pipeline release?

Thomas J. Long  
Senior Environmental Scientist  
Enterprise Products Company  
614 Reilly Ave.  
Farmington, New Mexico 87401  
505-599-2286 (office)  
505-215-4727 (Cell)  
[tjlong@eprod.com](mailto:tjlong@eprod.com)

-----Original Message-----

From: Medley, Wyatt T CIV USARMY CESP (USA) <[Wyatt.T.Medley@usace.army.mil](mailto:Wyatt.T.Medley@usace.army.mil)>  
Sent: Wednesday, January 22, 2020 10:35 AM  
To: Long, Thomas <[tjlong@eprod.com](mailto:tjlong@eprod.com)>  
Cc: Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>; 'sclow@utemountain.org' <[sclow@utemountain.org](mailto:sclow@utemountain.org)>  
Subject: RE: Ute Mountain J #1 - UL K Section 1 T31N R14W; 36.928810, -108.26548

Thomas,

Thank you for returning my phone call and for providing the additional information. This work will meet the requirements of Nationwide Permit (NWP) 20 Response Operations for Oil or Hazardous Substances. This permit currently does not require notification to the Corps so no further information or an application is required at this time. Please be advised that Enterprise is still required to follow all of the General Conditions (GC) associated with NWP 20 and GC #25 requires 401 Water Quality Certification from the Ute Mountain Ute Tribe.

Please let me know if you have any questions,

Wyatt Medley  
U.S. Army Corps of Engineers  
Regulatory Specialist  
1970 East 3rd Avenue, Suite 109  
Durango, CO 81301  
Office: 970.259.1764  
Cell: 970.471.0213

-----Original Message-----

From: Long, Thomas [<mailto:tjlong@eprod.com>]  
Sent: Tuesday, January 21, 2020 1:58 PM  
To: Medley, Wyatt T CIV USARMY CESP (USA) <[Wyatt.T.Medley@usace.army.mil](mailto:Wyatt.T.Medley@usace.army.mil)>  
Cc: Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>; 'sclow@utemountain.org' <[sclow@utemountain.org](mailto:sclow@utemountain.org)>  
Subject: [Non-DoD Source] FW: Ute Mountain J #1 - UL K Section 1 T31N R14W; 36.928810, -108.26548

Wyatt,

Please find the attached executed C-138 COW from Envirotech Land Farm. It looks like we remove a total of 730 cubic yards of impacted soil during the remediation activities.

Thomas J. Long  
Senior Environmental Scientist  
Enterprise Products Company  
614 Reilly Ave.  
Farmington, New Mexico 87401  
505-599-2286 (office)  
505-215-4727 (Cell)  
tjlong@eprod.com

-----Original Message-----

From: Long, Thomas  
Sent: Tuesday, January 21, 2020 10:05 AM  
To: 'Medley, Wyatt T CIV USARMY CESP (USA)' <Wyatt.T.Medley@usace.army.mil>  
Cc: Stone, Brian <bmstone@eprod.com>; Scott Clow <sclow@utemountain.org>  
Subject: RE: Ute Mountain J #1 - UL K Section 1 T31N R14W; 36.928810, -108.26548

Wyatt,

The only work that has been performed is the remediation work associated with the 8-21-2019 pipeline release. I have attached emails with additional attachments within each email. I have not submitted the final corrective action report to NMOCD or Ute Mountain Tribe as that the reclamation is required to be completed. Sample results from all events indicate the soil has been remediated to Ute Mountain Ute and NMOCD standards. The excavation is currently open and no other work has been performed, as that I have been waiting for approval to proceed or other permitting requirements.

Thomas J. Long  
Senior Environmental Scientist  
Enterprise Products Company  
614 Reilly Ave.  
Farmington, New Mexico 87401  
505-599-2286 (office)  
505-215-4727 (Cell)  
tjlong@eprod.com

-----Original Message-----

From: Medley, Wyatt T CIV USARMY CESP (USA) <Wyatt.T.Medley@usace.army.mil>  
Sent: Tuesday, January 21, 2020 8:32 AM  
To: Long, Thomas <tjlong@eprod.com>  
Cc: Stone, Brian <bmstone@eprod.com>; Scott Clow <sclow@utemountain.org>  
Subject: RE: Ute Mountain J #1 - UL K Section 1 T31N R14W; 36.928810, -108.26548

Thomas,

I just need to hear about what work has been done up to this point. Send me a description of the excavation work to

include any maps or plans that were followed, the area of impact to the channel, and a statement regarding the purpose of why the work was done. From what it sounds like so far, this work will likely meet the stipulations of Nationwide Permit 3 for Maintenance, but I would like to confirm that with the information that I've requested.

Thanks,

Wyatt Medley  
U.S. Army Corps of Engineers  
Regulatory Specialist  
1970 East 3rd Avenue, Suite 109  
Durango, CO 81301  
Office: 970.259.1764  
Cell: 970.471.0213

-----Original Message-----

From: Long, Thomas [<mailto:tjlong@eprod.com>]  
Sent: Monday, January 20, 2020 7:31 AM  
To: Medley, Wyatt T CIV USARMY CESP (USA) <Wyatt.T.Medley@usace.army.mil>  
Cc: Stone, Brian <bmstone@eprod.com>; Scott Clow <sclow@utemountain.org>  
Subject: [Non-DoD Source] RE: Ute Mountain J #1 - UL K Section 1 T31N R14W; 36.928810, -108.26548

Wyatt,

I have no message from you on 10-10-2020. Our phone system is new and not all the bugs have been worked out. I apologize. What information may I help you with?

Thomas J. Long  
Senior Environmental Scientist  
Enterprise Products Company  
614 Reilly Ave.  
Farmington, New Mexico 87401  
505-599-2286 (office)  
505-215-4727 (Cell)  
[tjlong@eprod.com](mailto:tjlong@eprod.com)

-----Original Message-----

From: Medley, Wyatt T CIV USARMY CESP (USA) <Wyatt.T.Medley@usace.army.mil>  
Sent: Friday, January 17, 2020 12:16 PM  
To: Long, Thomas <[tjlong@eprod.com](mailto:tjlong@eprod.com)>  
Cc: Stone, Brian <bmstone@eprod.com>; Scott Clow <sclow@utemountain.org>  
Subject: RE: Ute Mountain J #1 - UL K Section 1 T31N R14W; 36.928810, -108.26548

Mr. Long,

Thank you for sending the restoration plan. I left you a voicemail on 1/10 asking for more information on the work that has already been completed. As soon as you get back to me with this info I can provide some guidance on permitting requirements.

Thanks,

Wyatt Medley  
U.S. Army Corps of Engineers  
Regulatory Specialist

1970 East 3rd Avenue, Suite 109  
Durango, CO 81301  
Office: 970.259.1764  
Cell: 970.471.0213

-----Original Message-----

From: Long, Thomas [<mailto:tjlong@eprod.com>]  
Sent: Thursday, January 9, 2020 9:34 AM  
To: Medley, Wyatt T CIV USARMY CESP (USA) <Wyatt.T.Medley@usace.army.mil>  
Cc: Stone, Brian <bmstone@eprod.com>; Scott Clow <sclow@utemountain.org>  
Subject: [Non-DoD Source] Ute Mountain J #1 - UL K Section 1 T31N R14W; 36.928810, -108.26548

Wyatt,

As requested I am coordinating with you to determine if additional ACOE permitting is required for backfilling and the reclamation efforts for the excavation associated with the Ute Mountain J#1 remediation project. I have attached the approved engineered reclamation plan for reference. Please let me know if any additional permitting is required. Thank you.

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com <<mailto:tjlong@eprod.com>>

From: Scott Clow <sclow@utemountain.org>  
Sent: Wednesday, January 8, 2020 4:34 PM  
To: Long, Thomas <tjlong@eprod.com>  
Cc: Colin Larrick <clarrick@utemountain.org>; Jardine, Jennifer <jjardine@blm.gov>; Medley, Wyatt T CIV USARMY CESP (USA) <Wyatt.T.Medley@usace.army.mil>  
Subject: RE: FW: [EXTERNAL] RE: J4-2

Hi Thomas,

Thanks for the channel and reclamation design work you sent. It looks good to us. We do require you to reach out to the ACOE and work through our regulatory mechanisms for 404 permitting and 401 certification on the project. Wyatt Medley is the ACOE contact to reach out to. His email is attached. It should probably be a Nationwide #3 for your clean-up, even after the fact. Copy us on your requests and we can officially certify it on our end in a timely manner.

The plan looks good.

Scott T. Clow

Environmental Programs Director

Ute Mountain Ute Tribe

970-564-5432

970-570-3546 (mobile)

P.O. Box 448

Towoac, CO 81334

From: Long, Thomas [<mailto:tjlong@eprod.com>]

Sent: Friday, December 20, 2019 8:59 AM

To: Scott Clow <[sclow@utemountain.org](mailto:sclow@utemountain.org)> <<mailto:sclow@utemountain.org>>

Cc: Colin Larrick <[clarrick@utemountain.org](mailto:clarrick@utemountain.org)> <<mailto:clarrick@utemountain.org>>; Gordon Hammond <[GHammond@utemountain.org](mailto:GHammond@utemountain.org)> <<mailto:GHammond@utemountain.org>>; Peter Ortego <[portego@utemountain.org](mailto:portego@utemountain.org)> <<mailto:portego@utemountain.org>>; Benally, Genevieve <[genevieve.benally@bia.gov](mailto:genevieve.benally@bia.gov)> <<mailto:genevieve.benally@bia.gov>>; Stephanie Tsosie <[stephanie.tsosie@bia.gov](mailto:stephanie.tsosie@bia.gov)> <<mailto:stephanie.tsosie@bia.gov>>; Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)> <<mailto:bmstone@eprod.com>>; Chris Krassin <[ckrassin@blm.gov](mailto:ckrassin@blm.gov)> <<mailto:ckrassin@blm.gov>>; jpecor@blm.com <<mailto:jpecor@blm.com>> <<mailto:jpecor@blm.com>>; Barbara Telecky <[btelecky@blm.gov](mailto:btelecky@blm.gov)> <<mailto:btelecky@blm.gov>>; Ashley Hitchell <[ahitchell@blm.gov](mailto:ahitchell@blm.gov)> <<mailto:ahitchell@blm.gov>>; Yazzie, Marie <[MYazzie@eprod.com](mailto:MYazzie@eprod.com)> <<mailto:MYazzie@eprod.com>>; Jardine, Jennifer <[jjardine@blm.gov](mailto:jjardine@blm.gov)> <<mailto:jjardine@blm.gov>>; McDowell, Jack <[JLMCDOWELL@eprod.com](mailto:JLMCDOWELL@eprod.com)> <<mailto:JLMCDOWELL@eprod.com>>

Subject: RE: FW: [EXTERNAL] RE: J4-2

Scott,

Please find the attached rehabilitation and reseeding plan for the Ute Mountain J#1 release site. Please let me know if this is acceptable. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com <<mailto:tjlong@eprod.com>>

From: Jardine, Jennifer <jjardine@blm.gov <<mailto:jjardine@blm.gov>>>  
Sent: Monday, November 25, 2019 1:22 PM  
To: Long, Thomas <tjlong@eprod.com <<mailto:tjlong@eprod.com>>>  
Cc: Scott Clow <sclow@utemountain.org <<mailto:sclow@utemountain.org>>>; Colin Larrick <clarrick@utemountain.org <<mailto:clarrick@utemountain.org>>>; Gordon Hammond <GHammond@utemountain.org <<mailto:GHammond@utemountain.org>>>; Peter Ortego <portego@utemountain.org <<mailto:portego@utemountain.org>>>; Benally, Genevieve <genevieve.benally@bia.gov <<mailto:genevieve.benally@bia.gov>>>; Stephanie Tsosie <stephanie.tsosie@bia.gov <<mailto:stephanie.tsosie@bia.gov>>>; Dean Fox <dean.fox@bia.gov <<mailto:dean.fox@bia.gov>>>; Stone, Brian <bmstone@eprod.com <<mailto:bmstone@eprod.com>>>; Chris Krassin <ckrassin@blm.gov <<mailto:ckrassin@blm.gov>>>; jpecor@blm.com <<mailto:jpecor@blm.com>> <jpecor@blm.gov <<mailto:jpecor@blm.gov>>>; Barbara Telecky <btelecky@blm.gov <<mailto:btelecky@blm.gov>>>; Ashley Hitchell <ahitchell@blm.gov <<mailto:ahitchell@blm.gov>>>; Yazzie, Marie <MYazzie@eprod.com <<mailto:MYazzie@eprod.com>>>  
Subject: Re: FW: [EXTERNAL] RE: J4-2

Hi Thomas,

We need to determine if this pipeline is a BIA issued ROW. If it is a ROW, then BLM is not involved. BLM works with BIA and the UMUT with on-lease actions. If it is an off-lease action (BIA ROW), then BLM has no authority.

Thanks,

Jen

On Mon, Nov 25, 2019 at 12:32 PM Long, Thomas <tjlong@eprod.com <<mailto:tjlong@eprod.com>>> wrote:

Jennifer,

Please find the attached site sketch and lab report for the Ute Mountain J#1 background sampling. It would appear that the background sampling for electrical conductivity and arsenic widely range. All background samples results for arsenic exceed the remediation standard. Are the electrical conductivity results acceptable now? I will submit engineering reclamation plan upon receipt and review. If you have any questions, please call or email.

Sincerely,

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com <<mailto:tjlong@eprod.com>>

From: Long, Thomas <tjlong@eprod.com <<mailto:tjlong@eprod.com>>>  
Sent: Friday, November 22, 2019 4:18 PM  
To: Jardine, Jennifer <jjardine@blm.gov <<mailto:jjardine@blm.gov>>>; Clelland, Sarah <SDCLELLAND@eprod.com <<mailto:SDCLELLAND@eprod.com>>>  
Cc: Scott Clow <sclow@utemountain.org <<mailto:sclow@utemountain.org>>>; Colin Larrick <clarrick@utemountain.org <<mailto:clarrick@utemountain.org>>>; Gordon Hammond <GHammond@utemountain.org <<mailto:GHammond@utemountain.org>>>; Peter Ortego <portego@utemountain.org <<mailto:portego@utemountain.org>>>; Benally, Genevieve <genevieve.benally@bia.gov <<mailto:genevieve.benally@bia.gov>>>; Stephanie Tsosie <stephanie.tsosie@bia.gov <<mailto:stephanie.tsosie@bia.gov>>>; Dean Fox <dean.fox@bia.gov <<mailto:dean.fox@bia.gov>>>; Stone, Brian <bmstone@eprod.com <<mailto:bmstone@eprod.com>>>; Chris Krassin <ckrassin@blm.gov <<mailto:ckrassin@blm.gov>>>; jpecor@blm.com <<mailto:jpecor@blm.com>>> <jpecor@blm.gov <<mailto:jpecor@blm.gov>>>; Barbara Telecky <btelecky@blm.gov <<mailto:btelecky@blm.gov>>>; Ashley Hitchell <ahitchell@blm.gov <<mailto:ahitchell@blm.gov>>>; Yazzie, Marie <MYazzie@eprod.com <<mailto:MYazzie@eprod.com>>>  
Subject: Re: [EXTERNAL] RE: J4-2

Jennifer,

Souder, Miller & Associates will have a draft engineered reclamation plan to me by December 2, 2019. The subsequent sampling results are due in today or Monday. Upon receipt of the results, I will forward them on to all parties on this email. Upon review of the reclamation plan, it will be submitted via a Sundry Notice. A final corrective action report will be developed per NMOCD regulation and submitted to all parties involved after reclamation is completed. If you have any other questions, please call or email.

Sincerely,

Tom Long

On Nov 22, 2019, at 3:14 PM, Jardine, Jennifer <jjardine@blm.gov <<mailto:jjardine@blm.gov>> > wrote:

Please submit the sampling results and reclamation plan to the BLM via a Sundry Notice. BLM, UMUT, and BIA can then review and either approve as is or apply conditions of approval (COA).

Thanks,

Jen

On Fri, Nov 8, 2019 at 3:42 PM Long, Thomas <tjlong@eprod.com <<mailto:tjlong@eprod.com>> > wrote:

Scott,

Please find the attached field notes and sampling map for the Ute Mountain J #1 excavation. As per our conversation earlier, Enterprise will have Souder, Miller & Associates (SMA) collect additional background samples approximately 30 feet upstream and downstream of the excavation and have the analyzed for electrical conductivity and arsenic. In addition, SMA will develop a reclamation plan for the excavated area for your review and approval. If you have any questions, please call or email.

Sincerely,

Thomas J. Long  
Senior Environmental Scientist  
Enterprise Products Company  
614 Reilly Ave.  
Farmington, New Mexico 87401

505-599-2286 (office)  
505-215-4727 (Cell)  
tjlong@eprod.com <<mailto:tjlong@eprod.com>>

-----Original Message-----

From: Scott Clow <[sclow@utemountain.org](mailto:sclow@utemountain.org) <<mailto:sclow@utemountain.org>> >  
Sent: Friday, November 8, 2019 10:45 AM  
To: Long, Thomas <[tjlong@eprod.com](mailto:tjlong@eprod.com) <<mailto:tjlong@eprod.com>> >  
Cc: Jardine, Jennifer <[jjardine@blm.gov](mailto:jjardine@blm.gov) <<mailto:jjardine@blm.gov>> >; Colin Larrick <[clarrick@utemountain.org](mailto:clarrick@utemountain.org) <<mailto:clarrick@utemountain.org>> >; Gordon Hammond <[GHammond@utemountain.org](mailto:GHammond@utemountain.org) <<mailto:GHammond@utemountain.org>> >; Peter Ortego <[portego@utemountain.org](mailto:portego@utemountain.org) <<mailto:portego@utemountain.org>> >; Benally, Genevieve <[genevieve.benally@bia.gov](mailto:genevieve.benally@bia.gov) <<mailto:genevieve.benally@bia.gov>> >; 'Stephanie Tsosie' <[stephanie.tsosie@bia.gov](mailto:stephanie.tsosie@bia.gov) <<mailto:stephanie.tsosie@bia.gov>> >; 'Dean Fox' <[dean.fox@bia.gov](mailto:dean.fox@bia.gov) <<mailto:dean.fox@bia.gov>> >  
Subject: FW: J4-2

Hi Thomas,

I went to the location on Wednesday afternoon. I have some follow-up questions.

Did you or can you send me a diagram of the sampling locations? The EC is high but I understand your rationale in stating that is may be higher than background due to the sampling location and depth of background in comparison to the hole in the ground. My recommendation is to sample upstream and downstream of the hole- in the arroyo- for comparison. Without a diagram of sample locations, I don't know where the background sample was taken or what the labels on the data summary indicate.

The arsenic on S1 is two orders of magnitude higher than background, so that won't pass as is. Let's look at a diagram as a next step. There is also a little bit of housekeeping- some stains and trash that need to get scooped up around your work.

Regarding the arroyo itself, we need a stream reconstruction plan. In hindsight you should have gotten an Army Corps. of Engineers 404 permit to dig in there, and a 401 certification from the Tribe also. It is in your best interest to coordinate with them even if it after the fact to avoid a Clean Water Act violation and enforcement by ACOE or the Tribe. That being said, we appreciate that you have removed contaminated material from the location in a timely responsible manner. So let's figure out how to wrap it up, rebuild the channel and get reclamation done.

Good work out there.

Scott T. Clow  
Environmental Programs Director  
Ute Mountain Ute Tribe  
970-564-5432  
970-570-3546 (mobile)  
P.O. Box 448  
Towoac, CO 81334

-----Original Message-----

From: Scott Clow [<mailto:scottyclow@icloud.com> <<mailto:scottyclow@icloud.com>> ]  
Sent: Friday, November 08, 2019 9:46 AM  
To: Scott Clow <[sclow@utemountain.org](mailto:sclow@utemountain.org) <<mailto:sclow@utemountain.org>> >  
Subject: J4-2

---

This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

--

Jen Jardine

Natural Resource Specialist

Tres Rios Field Office

161 Burnett Drive Unit #4

Durango, CO 81301

Cell: 970-880-0338

Office: 970-385-1242

--

Jen Jardine

Natural Resource Specialist

Tres Rios Field Office

161 Burnett Drive Unit #4

Durango, CO 81301

Cell: 970-880-0338

Office: 970-385-1242

APPENDIX F  
UTE MOUNTAIN UTE TRIBE  
STANDARDS FOR SPILL  
CLEAN-UP AND RECLAMATION  
(2018)

**Standards for Spill Clean-up and Reclamation**  
**Ute Mountain Ute Tribe**  
**2018**

Note: Samples must be collected by a qualified professional and samples analyzed by a qualified laboratory (EPA certification recommended). At a minimum sufficient quality assurance/quality control data should be provided with analyses. These should be sent to Scott Clow, Environmental Programs Director, PO Box 448, Towaoc, CO 81334, or delivered to 520 Sunset Blvd. Towaoc, CO during regular business hours of 8 am to 4:30 pm, Monday through Friday. Other contact information: (970) 564-5432; FAX (970) 565-2651; cellular phone (970) 570-3546.

The Ute Mountain Ute Environmental Programs Department can do sampling on behalf of the Operator/Leasee with the understanding that analytical costs will be reimbursed to the Tribe.

**Pollutant Concentrations in Soil and Water**

CONCENTRATION LEVELS Contaminant of Concern	Concentrations
<b>Organic Compounds in Soil</b>	
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg
Benzene	0.17 mg/kg <sup>2</sup>
Toluene	85 mg/kg <sup>2</sup>
Ethylbenzene	100 mg/kg <sup>2</sup>
Xylenes (total)	175 mg/kg <sup>2</sup>
Acenaphthene	1,000 mg/kg <sup>2</sup>
Anthracene	1,000 mg/kg <sup>2</sup>
Benzo(A)anthracene	0.22 mg/kg <sup>2</sup>
Benzo(B)fluoranthene	0.22 mg/kg <sup>2</sup>
Benzo(K)fluoranthene	2.2 mg/kg <sup>2</sup>
Benzo(A)pyrene	0.022 mg/kg <sup>2</sup>
Chrysene	22 mg/kg <sup>2</sup>
Dibenzo(A,H)anthracene	0.022 mg/kg <sup>2</sup>
Fluoranthene	1,000 mg/kg <sup>2</sup>
Fluorene	1,000 mg/kg <sup>2</sup>
Indeno(1,2,3,C,D)pyrene	0.22 mg/kg <sup>2</sup>
Napthalene	23 mg/kg <sup>2</sup>

Pyrene	1,000 mg/kg <sub>2</sub>
<b>Organic Compounds in Ground Water</b>	
Benzene	<5 µg/l <sub>3</sub>
Toluene	<560 µg/l <sub>3</sub>
Ethylbenzene	<700 µg/l <sub>3</sub>
Xylenes (Total)	<1,400 µg/l <sub>3,4</sub>
<b>Inorganics in Soils</b>	
Electrical Conductivity (EC)	< 1.1x background
Sodium Adsorption Ratio (SAR)	<12 <sub>5</sub>
pH	6-9
<b>Inorganics in Ground Water</b>	
Total Dissolved Solids (TDS)	<1.25 x background <sub>3</sub>
Chlorides	<1.25 x background <sub>3</sub>
Sulfates	<1.25 x background <sub>3</sub>
<b>Metals in Soils</b>	
Arsenic	0.39 mg/kg <sub>2</sub>
Barium (LDNR True Total Barium)	15,000 mg/kg <sub>2</sub>
Boron (Hot Water Soluble)	2 mg/l <sub>3</sub>
Cadmium	70 mg/kg <sub>3,6</sub>
Chromium (III)	120,000 mg/kg <sub>2</sub>
Chromium (VI)	23 mg/kg <sub>2,6</sub>
Copper	3,100 mg/kg <sub>2</sub>
Lead (inorganic)	400 mg/kg <sub>2</sub>
Mercury	23 mg/kg <sub>2</sub>
Nickel (soluble salts)	1,600 mg/kg <sub>2,6</sub>
Selenium	390 mg/kg <sub>2,6</sub>
Silver	390 mg/kg <sub>2</sub>
Zinc	23,000 mg/kg <sub>2,6</sub>
<b>Liquid Hydrocarbons in Soils and Ground Water</b>	
Liquid hydrocarbons including condensate and oil	Below detection level

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
 Action 10320

**CONDITIONS**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 10320
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
nvelez	None	5/19/2022