

C/007/0013
Task ID #4801
Received 2/17/15



Lila Canyon Project
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East Carbon, Utah 84520
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Utah Division of Oil, Gas & Mining
Utah Coal Program
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

March 2, 2015

Attn: Daron Haddock
Permit Supervisor

Re: Lila Canyon Mine
2014 Annual Report

Dear Mr. Haddock,

Attached you will find the 2014 Annual Report for the Lila Canyon Mine.

If you have any questions, or need any additional information regarding this submittal, please contact me directly at 435-888-4000.

Sincerely,

A handwritten signature in blue ink that reads "David Hibbs". The signature is written in a cursive, flowing style.

David Hibbs
UtahAmerican Energy, Inc.
President/Chief Engineer

UtahAmerican Energy, Inc.



794 N. "C" Canyon Road, P. O. Box 910, East Carbon, Utah 84520

Phone: (435) 888-4000

Fax: (435) 888-4002

Mr. Steve Rigby,
Bureau of Land Management
Price Field Office
125 South 600 West
Price, Utah 84501

March 29, 2010

RE: Public Notice of Proposed Mining

Dear Mr. Rigby;

R645-301-525.700 requires that the operator notify all owners and occupants of surface property of proposed mining. This letter is to notify the BLM of UtahAmerican Energy's intent to commence mining at the Lila Canyon Mine.

As you are aware from the review process that all surface areas subject to subsidence above the Lila Canyon proposed works is owned by the BLM.

Specific areas and timing for mining can be found on the BLM approved R2P2. The subsidence control plan associated with mining at lila Canyon can be examined either at the DOGM offices in Price, SLC, or at the mine site.

If you have any questions please give me a call.

Sincerely;

A handwritten signature in black ink that reads "R. Jay Marshall".

R. Jay Marshall P.E.
Chief Engineer/Project Manager
Lila Canyon Mine

2014

Annual Report

General Information

Print Form

Submit by Email

Reset Form

Annual Report

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified in the cover letter. During a complete inspection an inspector will check and verify the information.

GENERAL INFORMATION

Company Name	<input type="text" value="Utah American Energy"/>	Mine Name	<input type="text" value="Lila Canyon Mine"/>
Permit Number	<input type="text" value="C/007/0013"/>	Permit expiration Date	<input type="text"/>
Operator Name	<input type="text"/>	Phone Number	<input type="text"/>
Mailing Address	<input type="text"/>	Email	<input type="text"/>
City	<input type="text"/>		
State	<input type="text"/>	Zip Code	<input type="text"/>

DOGGM File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	<input type="text"/>
Refuse Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	<input type="text"/>
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Ponds #1 and #2 annual certification are included.
Other:	<input type="text"/>	<input type="text"/>

OPERATOR COMMENTS

REVIEWER COMMENTS

Met Requirements Did Not meet Requirements

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: RAPTOR SURVEY

Objective: Identify and monitor all raptors and nests.

Frequency: Annually

Status: Ongoing since 2005. The map must coincide with the data set and the data set must be discernible. The follow up survey data, if any, must also be submitted.

Reports: Annual Reports

Citation: MRP, Part B, Section 322.220, page 10, Section 330, page 20, Section 358.100 page 38

Operator Comments

The 2014 annual Raptor Survey is being submitted for insertion into the Confidential Binder, and will not be included in the Annual Report.

Reviewer Comments Met Requirements Did Not Meet Requirements

Title: COLORADO RIVER ENDANGERED FISH RECOVERY PROGRAM

Objective: Report water depletion for the CO River Endangered Fish Recovery Program

Frequency: Annually

Status: Ongoing

Reports: Annual

Citation: MRP, Section 322.220, page 11

Operator Comments

The Water Depletion Calculations for the Colorado River Endangered Fish Recovery Program is included

Reviewer Comments Met Requirements Did Not Meet Requirements

Title: VEGETATION TEST PLOT

Objective: To test if summer seeding will increase establishment of the warm season species.

Frequency: Annually for three years

Status: Year one sampling occurred in 2011. Sampling due in 2014.

Reports: Annual report

Citation: MRP, Part B, Section 341.300, page 26. Section 354, page 28

Operator Comments

Due to Occular Estimation report completed by EIS in 2012, no further vegetation testing is required.

Reviewer Comments Met Requirements Did Not Meet Requirements

Title: RAIN GAUGES

Objective: Establish on site climatological database

Frequency: No less than monthly from May 1 to October 30, monthly when feasible during the remaining months.

Status: To be implemented within 30 days of Board's approval of the Stipulation for Dismissal.

Reports: Data will be downloaded quarterly and included in the Annual Report.

Citation: Conditions to the Permit, Attachment A, Special Conditions (December 21, 2007).

Operator Comments

The Rain Gauge Report is attached.

Reviewer Comments Met Requirements Did Not Meet Requirements

Title: MAINTAIN RECORDS OF SOIL SALVAGE

Objective: Records of soil salvage will be maintained and included in the annual report. A soil specialist will oversee the soil removal. Soil pedestals will be left to verify soil removal depths.

Frequency: During phase 1 and 2 construction, the soils specialist will record topsoil salvaged and placed in the topsoil stockpile and number of acres salvaged.

Status: Ongoing, Topsoil salvage will resume in 2012.

Reports: Provide an update to the number of acres salvaged and volumes salvaged in the Annual report "Topsoil Movement and Construction Record" and include a map of salvaged and undisturbed acreage.

Citation: R645-301-232.500 and R645-301-232.100 and N10045 abatement.

Operator Comments

Included in report

Reviewer Comments Met Requirements Did Not Meet Requirements

Title: SUBSOIL USED FOR CONSTRUCTION FILL

Objective: To record location of subsoil placement for use in reclamation. The location of subsoil with suitable reclamation characteristics will be mapped for ease of recovery and replacement during reclamation.

Frequency: During construction

Status: Ongoing

Reports: Annual report, Submit As built maps showing where subsoil materials have been used as fill material.

Citation: MRP, Section 232.500, Section 241, and Section 242.100.

Operator Comments

The Subsoil location will be tracked when it is relocated, and the project is complete.

Reviewer Comments Met Requirements

Did Not Meet Requirements

Title: MEXICAN SPOTTED OWL

Objective: Conduct two-year calling survey at least two years but no more than four years prior to undermining identified habitat. Results will be submitted to USFWS, DWR, and the Division immediately following each nighttime survey. If owls are observed, the agencies will immediately coordinate to determine appropriate measures.

Frequency: Dependent on habitat and mine plan

Status: Please keep confidential map 5-3 updated with correct mine workings to indicate when mining will occur under MSO habitat.

Reports: Submit final reports in annual report.

Citation: MRP, Part B, Section 333, page 17.

Operator Comments

Map Confidential 5-3 shows the current estimated timing mining will take place under the MSO habitat.

Reviewer Comments Met Requirements

Did Not Meet Requirements

Title: REACTIVATION OF OPERATIONAL MONITORING OF SURFACE WATER SAMPLING LOCATIONS

Objective: Quarterly sampling to initiate at least two years prior to resuming underground mining activities on sites L-6-G, L-7-G, L-8-G, L-9-G, L-10-G, L-11-G, L-12-G, L-13-S, L-14-S, L-15-S, L-18-S, L-19-S, L-20-S, IPA-1, IPA-2, IPA-3

Frequency: Notify Division once, quarterly sampling

Status: Monitoring suspended as of October 2011, Division awaiting reactivation notification.

Reports: Annual Report, notify Division if/when mining is to occur.

Citation: MRP, Part B, Section 731.222, table 7-3

Operator Comments

the division will be notified once quarterly sampling resumes.

Reviewer Comments Met Requirements Did Not Meet Requirements

Title: GENEVA MINE/ LILA CANYON FAN PORTAL BARRICADES

Objective: Inspect the Geneva Mine fan portal Barricades annually and report findings to Division and BLM.

Frequency: annually

Status: Ongoing

Reports: Annual Report.

Citation: MRP, Part B, Chapter 5, Section 529, page 54 and 55

Operator Comments

A report showing the annual inspection of the old Geneva Mine/Lila Canyon Fan Portal Barricades is Included.

Reviewer Comments Met Requirements Did Not Meet Requirements

FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: SUBSOIL USE IN RECLAMATION

Objective: Subsoils found to be contaminated with oil, grease, or salts through visual evaluation will be hauled to a landfill site.

Frequency: Once

Status: Ongoing

Reports: None

Citation: MRP, part B, Section 232.500

Title: APPLICATION OF INNOCULUM

Objective: An inoculum will be applied to the reclaimed soil surface to re-establish bacteria, mycorrhiza and mycelium in the soil. At the time of permitting, the exact product to be applied to the soil is not defined, however, the Division expects that the best technology available at the time of reclamation will be employed, as per R645-301-333.

Frequency: During Reclamation

Status: Ongoing

Reports: Division consultation

Citation: MRP, Part B, Section 241.

Title: TWO MONITORING WELLS TO BE ESTABLISHED IN FUTURE BOREHOLES

Objective: Monitor water levels and water quality within the permit and adjacent areas.

Frequency: If wells are established.

Status: To be done when and if additional holes are bored from the surface to the coal seam.

Reports: Water quality and quantity data will be included in the quarterly hydrology reports. The MRP (and CHIA) to be updated as needed.

Citation: Conditions to the Permit, attachment A, special conditions (December 21, 2007).

Title: LILA CANYON MINE SALVAGE OF CRYPTOGRAMS ON TOPSOIL PILE PRIOR TO RECLAMATION.

Objective: Salvaged cryptogams will be added to the wood fiber mulch and hydrosprayed on the surface of the reclaimed site.

Frequency: Immediately after seeding of the reclaimed site.

Status: During reclamation of the Lila Canyon Mine.

Reports: Success of cryptogamic establishment will be evaluated (by Division and Permittee) prior to collection from topsoil stockpile.

Citation: MRP, Part B, Section 232.100, and Section 234.230

Title: VEGETATION MONITORING

Objective: Submit color infrared photography. Submit and implement a mitigation plan, if results indicate impact from mining operations.

Frequency: Prior to any mining, and every 5 years after.

Status: Ongoing. Baseline submitted in 2011. Next round of photos are due in 2016. A comparison between 2016 and 2011 photos will be required in 2016.

Reports: Annual Report

Citation: MRP, Part B, Section 332, page 14.

OPERATOR COMMENTS (OPTIONAL)

REVIEWER COMMENTS

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

Reviewer Comments

MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Annual subsidence map	Not Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine Map	Included at end of report.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Comments Met Requirements Did Not Meet Requirements

Mine maps need to include 5 year projections of mining

2014

Annual Report

Sediment Information

Permit Number	ACT/007/013	Report Date	November 13 th , 2014
Mine Name	Lila Canyon		
Company Name	UtahAmerican Energy, Inc.		
Impoundment Identification	Impoundment Name	Sediment Pond #2 Small	
	Impoundment Number	Pond #2	
	UPDES Permit Number	NA	
	MSHA ID Number	NA	

IMPOUNDMENT INSPECTION

Inspection Date	November 13 th 2014		
Inspected By	Karin Odendahl		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4 th Quarter and Annual		

1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No appearance of instability, structural weakness, or any other hazardous condition was observed at the time of inspection. New culvert diverting road water into pond is in place and functioning as designed.

Pond will probably need to be cleaned come spring.

Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p style="padding-left: 40px;">Sediment Elevations:</p> <p style="padding-left: 80px;">60% 5837.3'</p> <p style="padding-left: 80px;">100% 5838.4'</p> <p style="padding-left: 40px;">Approximate sediment elevation is 5836.</p>
	<p>3. Principle and emergency spillway elevations.</p> <p style="padding-left: 40px;">Principle 5824'</p> <p style="padding-left: 40px;">Emergency 5843'</p>

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Pond has a small amount of water draining from culverts, however not enough to pool.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No changes. Pond is mainly dry. Sediment marker is visible.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature:



Date:

11.13.14

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	XXXXX	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	XXXXX	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	XXXXX	

COMMENTS AND OTHER INFORMATION

NONE

Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: R. Jay Marshall
 (Full Name and Title)
 Signature: R. Jay Marshall Date: 11/14/14
 P.E. Number & State: 152606 Utah

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of	
Permit Number	ACT/007/013	Report Date	November 13 th 2014
Mine Name	Lila Canyon		
Company Name	UtahAmerican Energy, Inc.		
Impoundment Identification	Impoundment Name	Sediment Pond #1 Large	
	Impoundment Number	Pond #1	
	UPDES Permit Number	UTG 040024	
	MSHA ID Number	NA	
IMPOUNDMENT INSPECTION			
Inspection Date	November 13 th , 2014		
Inspected By	Karin Odendahl		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4 th Quarter & Annual Inspection		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No appearance of instability, structural weakness, or any other hazardous condition was observed at the time of inspection.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment Elevations:</p> <p style="padding-left: 40px;">60% 5838.9'</p> <p style="padding-left: 40px;">100% 5843.0'</p> <p style="padding-left: 40px;">Current sediment level 5834'</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p style="padding-left: 40px;">Principle 5841'</p> <p style="padding-left: 40px;">Emergency 5840'</p>		

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

Pond is dry, no discharge.

5. **Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No Changes. Pond is dry. Sediment marker is visible.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: _____

Date: _____



11.13.14

CERTIFIED REPORT

IMPOUNDMENT EVALUATION (If NO, explain under Comments)

YES

NO

1. Is impoundment designed and constructed in accordance with the approved plan?

XXXXX

2. Is impoundment free of instability, structural weakness, or any other hazardous condition?

XXXXX

3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?

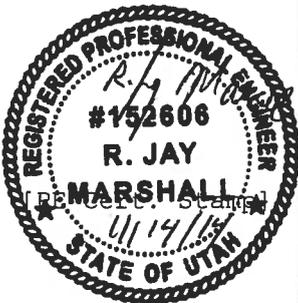
XXXXX

COMMENTS AND OTHER INFORMATION

NONE

Certification Statement:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



By: Jay Marshall
(Full Name and Title)

Signature: R. Jay Marshall Date: 11/14/14

P.E. Number & State: 152606 Utah

2014

Annual Report

Raptor Survey

(Included in Confidential File)

2014

Annual Report

Colorado River
Endangered Fish
Recovery Program

2014

Annual Report

Rain Gauge

Information

**Lila Canyon Mine
East Carbon, UTAH**

2014 Rain Gauge Data Evaluation

Prepared For:

UtahAmerica Energy Inc.
794 C Canyon Road
East Carbon, UT 84520
435.888.4007 Tel

Prepared by:

HydroPlot

HydroPlot
1843 E. Blaine Ave.
Salt Lake City, Utah 84108
801.608.2414 Tel

January 2015

INTRODUCTION:

The purpose of this study was to address DOGM baseline data requirements and to specifically:

- o Describe the rain gauge data collection for the lower elevation areas within the Lila Canyon Mine Permit Area.
- o Evaluate data and recommend future sampling activities.

In response to a DOGM stipulation, UEI installed the rain gauges in the mine area. Once that purpose was met, the equipment purpose was shifted to collecting data for the mine facilities area.

RAIN GAUGES

The rain gauge for the lower elevation area is located to the south of the mine facilities area. The locations of the rain gauges were determined by a Delorme Earthmate PN-20 GPS unit and are shown on Plate 1 and the coordinates and elevations are presented in Table 1.

METHODS: The rain gauge is a tipping bucket type rain gauge with a data logger. The data are collected in 0.01" increments with a resolution of 0.01 inches per second. Readings are taken only when precipitation is recorded. The data are stored in the data logger memory until the data are downloaded. There is sufficient memory in the data loggers to store more than a year of data before a download is required.

Attempts were made to download the data during the quarterly sampling periods; however, due to scheduling issues, these periods are sometimes longer than a normal 3-month quarter. The summary tables adjust these data to the various quarters or years as appropriate.

RESULTS: Tables 2 and 3 present the rainfall data for the 4th period of 2013 and three periods of 2014 at the lower rain gauge, respectively.

EVALUATION: The breakdown of the rainfall for each of the quarters for the various gauges is:

Station ID	2013 4th	2014 1st	2014 2nd	2014 3rd	Annual
Lower	0.69"	0.41"	0.44"	N/A	1.54"*

*Not a complete record

There was an anomaly during this period of data collection. Data from the latter part of the 2nd quarter and all of the 3rd quarter were inadvertently lost due to a malfunction of the data logger. UEI has replaced the datalogger to ensure high quality data for future periods.

The 2013-14 data, while not a complete record, plus the data from the 2008 - 2013 reports, demonstrate the types of rainfall that are common in the mine permit area. There are three types of precipitation events recorded: short duration small isolated storms, short duration, high intensity storms, and longer frontal type storms.

The rainfall types occurring in the area were described as a combination of short duration, high intensity thunderstorms and gentle frontal storms. These are the same types of storms that were recorded in the data collected. The only difference was the additional identification of short duration small isolated storms. These storms were generally less than 0.1 inches in depth and less than 60 minutes in duration. Therefore, the precipitation regime occurring in the mine permit area is now fully documented and matches that described in the PAP.

CONCLUSIONS AND RECOMMENDATIONS:

The data presented in the 2008 - 2014 summaries demonstrate that the data from the rain gauges and the crest staff gauges presents the typical rainfall-runoff conditions for the mine permit area. The conditions described by these data are consistent with the descriptions presented in the PAP for the Lila Canyon Mine.

TABLE 1
Lila Canyon - Water Monitoring Coordinate Data

Site	Latitude	Longitude	Stateplane N (feet)	Stateplane E (feet)	Elevation (ft.)	# of satellites	Error margin (+/-)	Flow Rat	Cond.	Temp	pH
IPA #1	39° 25.514' N	110° 18.439' W	399946.05	2336903.63	7049	6	22				
IPA #2	39° 25.088' N	110° 19.144' W	397316.3	2333618.88	6872	6	17				
IPA #3	39° 24.488' N	110° 18.718' W	393701.03	2335672.92	6820	7	17				
L-01-S	39° 25.6457' N	110° 20.8662' W	400595.57	2325467.03	5826	8	19				
L-02-S	39° 25.5230' N	110° 20.7040' W	399860.709	2326240.081	5934	8	19				
L-07-G	39° 26.450' N	110° 18.223' W	405640.88	2337844.49	7354	5	19				
L-08-G	39° 25.717' N	110° 17.621' W	401229.84	2340737.86	7049	5	45				
L-09-G	39° 24.958' N	110° 17.952' W	396601.96	2339241.56	7036	6	18				
L-11-G	39° 26.618' N	110° 19.781' W	406563.58	2330498.28	7220	4	35				
L-12-G	39° 24.143' N	110° 18.038' W	391649.72	2338902.98	6762	6	29				
L-13-S	39° 24.831' N	110° 19.032' W	395763.35	2334166.82	6820	6	18				
L-14-S	39° 23.960' N	110° 18.472' W	390511.64	2336874	6678	8	19				
L-16-G	39° 24.2498' N	110° 19.5893' W	392201.033	2331589.099	5792	8	19				
L-17-G	39° 24.2957' N	110° 19.4968' W	392485.352	2332021.029	5896	8	19				
L-18-S	39° 23.9966' N	110° 20.1881' W	390627.335	2328789.29	5513	8	19				
L-19-S	39° 24.228' N	110° 19.094' W	392099.45	2333923.26	6700	5	18				
L-20-S	39° 26.314' N	110° 18.916' W	404771.98	2334593.76	7153	9	15				

RAIN GAUGES - APRIL 2008 & AUGUST 2008

RG-1	39° 25.5620' N	110° 20.8216' W	400090.286	2325683.408	5946	8	19				
RG-2	39° 25.1101' N	110° 19.1383' W	397450.92	2333644.12	6875	8	19				

SPRING & SEEP - APRIL 2008

JS-1	39° 24.2052' N	110° 19.7143' W	391922.606	2331004.009	5793	8	19	damp	-	-	-
JS-2	39° 24.3467' N	110° 19.5807' W	392789.721	2331621.879	5932	8	19	0.01	+4000	54.3	9.03
TS-1	39° 24.2667' N	110° 19.5851' W	392303.871	2331607.531	5873	8	19	0.01	+4000	40.2	8.68
TS-2	39° 24.2848' N	110° 19.5101' W	392418.37	2331959.268	6005	8	19	damp	-	-	-
TS-3	39° 24.2899' N	110° 19.5168' W	392448.911	2331927.311	5992	8	19	damp	-	-	-

CREST GAUGES - AUGUST 2008

Lila CG1	39° 25.6006' N	110° 21.0658' W	400309.785	2324530.799	5739	8	19				
Lila CG2	39° 26.7540' N	110° 18.7754' W	407451.416	2335220.175	7303	8	19				
Lila CG3	39° 26.3110' N	110° 18.8839' W	404755.876	2334745.274	7233	8	19				
Lila CG4	39° 25.4918' N	110° 18.8207' W	399787.62	2335108.598	6968	8	19				
Lila CG5	39° 23.9398' N	110° 18.4462' W	390390.749	2336997.324	6675	8	19				
Lila CG6	39° 24.8083' N	110° 18.9742' W	395629.264	2334440.693	6809	8	19				
Lila CG7	39° 23.9969' N	110° 18.9549' W	390705.618	2334596.861	6656	8	19				

Table 2

Lila Canyon Raingauge Data

Lower Site 2013

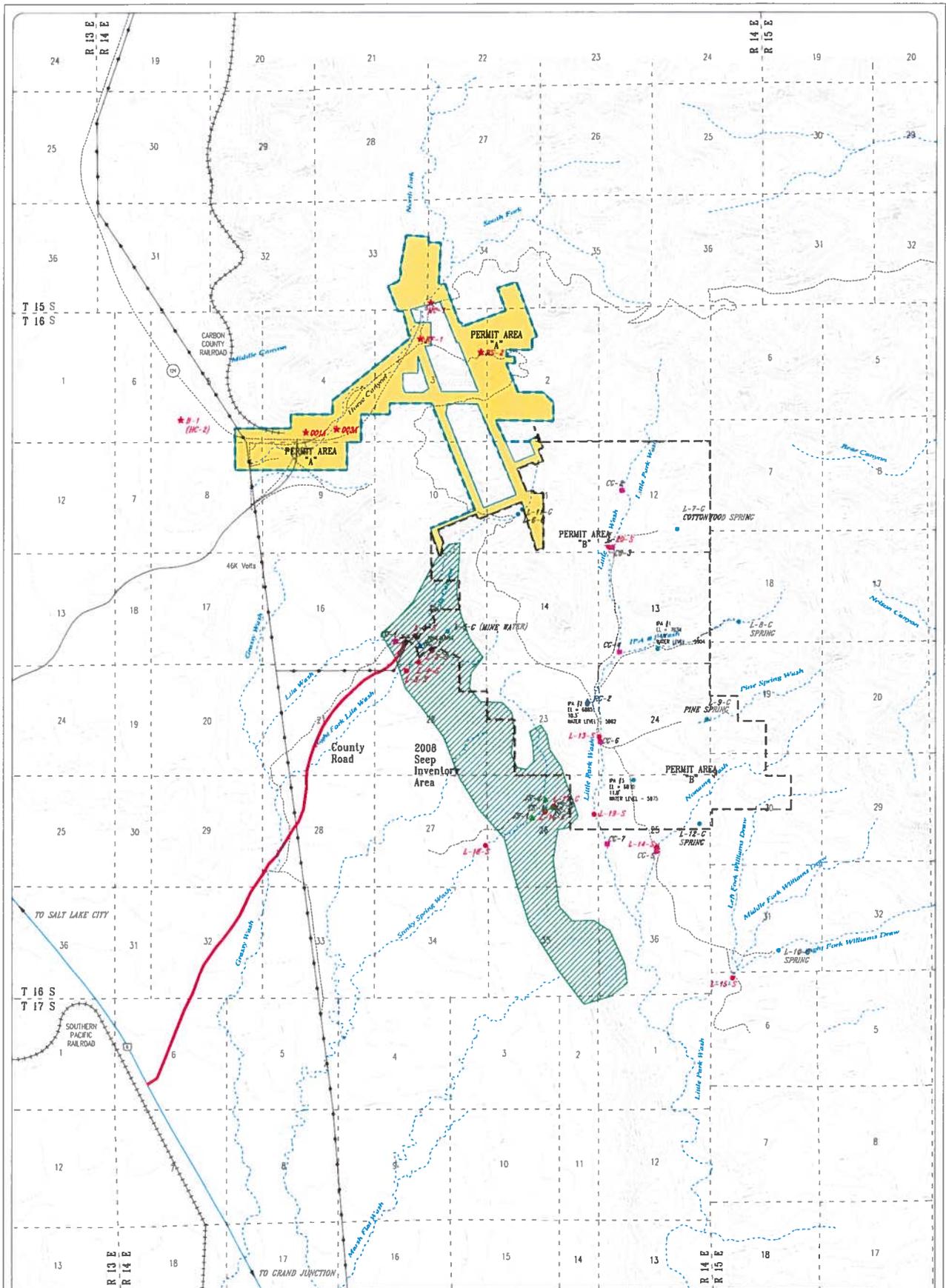
Date	Duration	Depth (in)
10/28/2013	6 Min	0.02
10/29/2013	10.5 Hrs	0.37
11/20/2013	9 Min	0.01
11/21/2013	23 Min	0.02
11/23/2013	1.6 Hrs	0.03
11/24/2013	26 Min	0.06
11/25/2013	4 Min	0.02
12/3/2013	4.2 Hrs	0.02
12/8/2013	3 Hrs	0.02
12/11/2013	1.7 Hrs	0.06
12/19/2013	1.2 Hrs	0.06

Table 3

Lila Canyon Raingauge Data

Lower Site 2014

Date	Duration	Depth (in)
1/12/2014	39 min	0.01
1/31/2014	35 min	0.13
2/9/2014	40 min	0.01
2/10/2014	4.6 Hours	0.14
2/27/2014	0.75 Hours	0.02
2/28/2014	1.1 Hours	0.04
3/7/2014	1.2 Hours	0.04
3/26/2014	3 min	0.01
3/30/2014	5 min	0.01
4/2/2014	7 Hours	0.04
4/3/2014	8 min	0.01
4/13/2014	16.5 Hours	0.26
4/26/2014	15.75 Hours	0.13
No additional records for 2014		



LEGEND:

PERMIT AREA "A" (LILA CANYON) [Yellow shaded area]

WATER MONITORING:

- HORSE CANYON MONITORING: [Red star symbol]
- LILA CANYON SURFACE MONITORING: [Red star symbol]
- LILA CANYON UNDERWATER MONITORING: [Red star symbol]
- LILA CANYON DEEP GULCH MONITORING: [Red star symbol]
- LILA CANYON SEEP LOCATIONS: [Red star symbol]
- LILA CANYON RUN GAUGE LOCATIONS: [Blue triangle symbol]

REVISION DATE:

REV	DATE	BY	CHK	DESCRIPTION
01	July 2008	DL	DL	Initial
02	September 2008	DL	DL	August 2008
03	March 2009	DL	DL	
04	August 2009	DL	DL	
05	December 2009	DL	DL	
06	July 2011	DL	DL	
07	September 2012	DL	DL	
08	November 2008	DL	DL	



LILA CANYON MINE

WATER MONITORING LOCATIONS

DATE: MAY 2008 DRAWN BY: BLACKHAWK ENG.

SCALE: AS SHOWN SHEET # 1

ATTACHMENT A

Annual Data Summary for the Lower Rain Gauge

Lower Gauge Data

Plot Title: lila lower 4q-13

#	Date Time, GMT-06:00	2013s (1.0), Units (LGR S/N: 11370)		
1	10/22/2013 13:02	1		
2	10/28/2013 23:49	2		
3	10/28/2013 23:55	3	0.02	0:06
4	10/29/2013 0:03	4		
5	10/29/2013 0:08	5		
6	10/29/2013 0:25	6		
7	10/29/2013 0:33	7		
8	10/29/2013 1:16	8		
9	10/29/2013 2:17	9		
10	10/29/2013 2:26	10		
11	10/29/2013 2:31	11		
12	10/29/2013 2:37	12		
13	10/29/2013 2:41	13		
14	10/29/2013 2:50	14		
15	10/29/2013 3:08	15		
16	10/29/2013 3:14	16		
17	10/29/2013 3:28	17		
18	10/29/2013 3:41	18		
19	10/29/2013 3:45	19		
20	10/29/2013 3:50	20		
21	10/29/2013 3:57	21		
22	10/29/2013 4:03	22		
23	10/29/2013 4:10	23		
24	10/29/2013 4:20	24		
25	10/29/2013 4:29	25		
26	10/29/2013 4:38	26		
27	10/29/2013 4:44	27		
28	10/29/2013 4:48	28		
29	10/29/2013 4:53	29		
30	10/29/2013 6:02	30		
31	10/29/2013 6:12	31		
32	10/29/2013 6:30	32		
33	10/29/2013 6:47	33		
34	10/29/2013 7:24	34		
35	10/29/2013 8:16	35		
36	10/29/2013 8:52	36		
37	10/29/2013 9:20	37		
38	10/29/2013 9:41	38		
39	10/29/2013 10:33	39		
40	10/29/2013 10:46	40	0.37	10:42
41	11/20/2013 19:29	41	0.01	0:09
42	11/21/2013 14:47	42		
43	11/21/2013 19:53	43	0.02	0:23
44	11/23/2013 18:31	44		
45	11/23/2013 19:36	45		

46	11/23/2013 20:12	46	0.03	1:41
47	11/24/2013 11:56	47		
48	11/24/2013 12:03	48		
49	11/24/2013 12:03	49		
50	11/24/2013 12:11	50		
51	11/24/2013 12:18	51		
52	11/24/2013 12:22	52	0.06	0:26
53	11/25/2013 11:41	53		
54	11/25/2013 11:45	54	0.02	0:04
55	12/3/2013 13:28	55		
56	12/3/2013 17:45	56	0.02	4:16
57	12/8/2013 12:11	57		
58	12/8/2013 15:08	58	0.02	2:57
59	12/11/2013 14:17	59		
60	12/11/2013 14:19	60		
61	12/11/2013 14:41	61		
62	12/11/2013 14:50	62		
63	12/11/2013 15:44	63		
64	12/11/2013 16:00	64	0.06	1:43
65	12/19/2013 11:29	65		
66	12/19/2013 11:39	66		
67	12/19/2013 11:46	67		
68	12/19/2013 12:08	68		
69	12/19/2013 12:15	69		
70	12/19/2013 12:48	70	0.06	1:18

Plot Title: lila lower 1q-14

#	Date Time, GMT-06:00	2014s (1.0), Units (LGR S/N: 11370)		
1	1/12/2014 12:33	1		
2	1/12/2014 13:13	2	0.01	0:39
3	1/31/2014 14:15	3		
4	1/31/2014 14:17	4		
5	1/31/2014 14:18	5		
6	1/31/2014 14:19	6		
7	1/31/2014 14:21	7		
8	1/31/2014 14:22	8		
9	1/31/2014 14:25	9		
10	1/31/2014 14:26	10		
11	1/31/2014 14:29	11		
12	1/31/2014 14:32	12		
13	1/31/2014 14:36	13		
14	1/31/2014 14:40	14		
15	1/31/2014 14:50	15	0.13	0:35
16	2/9/2014 15:31	16	0.01	0:40
17	2/10/2014 4:20	17		
18	2/10/2014 4:33	18		
19	2/10/2014 4:44	19		
20	2/10/2014 5:38	20		
21	2/10/2014 5:52	21		
22	2/10/2014 6:10	22		
23	2/10/2014 6:18	23		
24	2/10/2014 6:45	24		
25	2/10/2014 7:58	25		
26	2/10/2014 7:58	26		
27	2/10/2014 8:15	27		
28	2/10/2014 8:34	28		
29	2/10/2014 8:45	29		
30	2/10/2014 9:01	30	0.14	4:40
31	2/27/2014 14:24	31		
32	2/27/2014 15:10	32	0.02	0:45
33	2/28/2014 22:49	33		
34	2/28/2014 23:18	34		
35	2/28/2014 23:29	35		
36	2/28/2014 23:57	36	0.04	1:08
37	3/7/2014 0:54	37		
38	3/7/2014 0:58	38		
39	3/7/2014 1:03	39		
40	3/7/2014 1:11	40	0.04	1:14
41	3/26/2014 17:54	41	0.01	0:03
42	3/30/2014 15:45	42	0.01	0:05

Plot Title: lila lower 2q-14

#	Date Time, GMT-06:00	2014s (1.0), Units (LGR S/N: 11370)		
1	4/2/2014 12:33	1		
2	4/2/2014 12:37	2		
3	4/2/2014 12:39	3		
4	4/2/2014 12:41	4		
5	4/2/2014 19:35	5	0.04	7:01
6	4/3/2014 9:38	6	0.01	0:08
7	4/13/2014 4:37	7		
8	4/13/2014 4:41	8		
9	4/13/2014 4:46	9		
10	4/13/2014 4:48	10		
11	4/13/2014 4:51	11		
12	4/13/2014 4:53	12		
13	4/13/2014 4:56	13		
14	4/13/2014 4:57	14		
15	4/13/2014 5:01	15		
16	4/13/2014 5:03	16		
17	4/13/2014 5:08	17		
18	4/13/2014 5:10	18		
19	4/13/2014 5:13	19		
20	4/13/2014 5:17	20		
21	4/13/2014 5:21	21		
22	4/13/2014 5:23	22		
23	4/13/2014 5:27	23		
24	4/13/2014 5:29	24		
25	4/13/2014 5:31	25		
26	4/13/2014 5:34	26		
27	4/13/2014 5:37	27		
28	4/13/2014 5:40	28		
29	4/13/2014 5:44	29		
30	4/13/2014 5:53	30		
31	4/13/2014 6:02	31		
32	4/13/2014 6:08	32		
33	4/13/2014 21:07	33	0.26	16:30
34	4/26/2014 10:01	34		
35	4/26/2014 10:01	35		
36	4/26/2014 12:20	36		
37	4/26/2014 12:23	37		
38	4/26/2014 12:26	38		
39	4/26/2014 12:28	39		
40	4/26/2014 12:32	40		
41	4/26/2014 12:34	41		
42	4/26/2014 12:37	42		
43	4/26/2014 12:38	43		
44	4/26/2014 12:41	44		
45	4/26/2014 12:45	45		

46
47

4/26/2014 12:48
4/26/2014 12:51

46
47

0.13 15:44

**Lila Canyon Mine
East Carbon, UTAH**

2014 Upper Rain Gauge Data Evaluation

Prepared For:

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February 2015

INTRODUCTION:

The purpose of this study was to address DOGM baseline data requirements and to specifically:

- o Describe the rain gauge data collection for the upper elevation areas within the Lila Canyon Mine Permit Area.
- o Evaluate data and recommend future sampling activities.

In response to a DOGM stipulation, UEI installed the rain gauges in the mine area. Once that purpose was met, the equipment purpose was shifted to collecting data for future mining areas.

RAIN GAUGES

The rain gauge for the upper elevation area is located to the southeast of the mine facilities area within the Little Park Wash drainage area. The locations of the rain gauges were determined by a Delorme Earthmate PN-20 GPS unit and are shown on Plate 1 and the coordinates and elevations are presented in Table 1.

METHODS: The rain gauge is a tipping bucket type rain gauge with a data logger. The data are collected in 0.01" increments with a resolution of 0.01 inches per second. Readings are taken only when precipitation is recorded. The data are stored in the data logger memory until the data are downloaded. There is sufficient memory in the data loggers to store more than a year of data before a download is required.

Attempts were made to download the data during the quarterly sampling periods; however, due to scheduling issues, these periods are sometimes longer than a normal 3-month quarter. The summary tables adjust these data to the various quarters or years as appropriate.

RESULTS: Tables 2 and 3 present the rainfall data for the 4th period of 2013 and three periods of 2014 at the upper rain gauge, respectively.

EVALUATION: The breakdown of the rainfall for each of the quarters for the various gauges is:

Station ID	2013 4th	2014 1st	2014 2nd	2014 3rd	Annual
Upper	2.09"	1.09"	1.83"	0.22*	5.23"*

*Not a complete record

There was an anomaly during this period of data collection. Data from the latter part of the 3rd quarter were inadvertently lost due to a malfunction of the data logger or connection cables. UEI has replaced the data logger and cables to ensure high quality data for future periods.

The 2013-14 data, while not a complete record, plus the data from the 2008 - 2013 reports, demonstrate the types of rainfall that are common in the mine permit area. There are three types of precipitation events recorded: short duration small isolated storms, short duration, high intensity storms, and longer frontal type storms.

The rainfall types occurring in the area were described as a combination of short duration, high intensity thunderstorms and gentle frontal storms. These are the same types of storms that were recorded in the data collected. The only difference was the additional identification of short duration small isolated storms. These storms were generally less than 0.1 inches in depth and less than 60 minutes in duration. Therefore, the precipitation regime occurring in the mine permit area is now fully documented and matches that described in the PAP.

CONCLUSIONS AND RECOMMENDATIONS:

The data presented in the 2008 - 2014 summaries demonstrate that the data from the rain gauges and the crest staff gauges presents the typical rainfall-runoff conditions for the mine permit area. The conditions described by these data are consistent with the descriptions presented in the PAP for the Lila Canyon Mine.

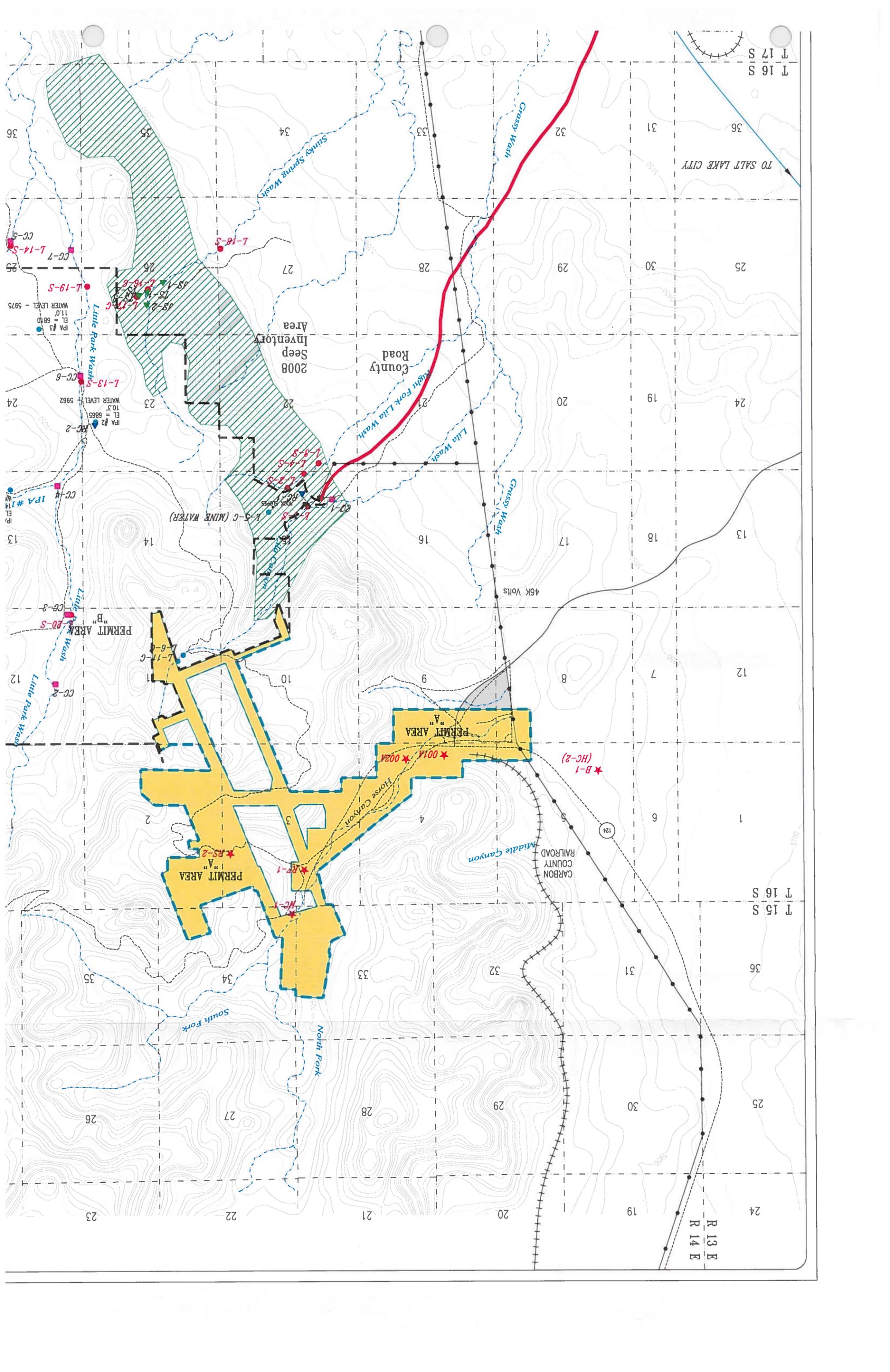


TABLE 1
Lila Canyon - Water Monitoring Coordinate Data

Site	Latitude	Longitude	Stateplane N (feet)	Stateplane E (feet)	Elevation (ft.)	# of satellites	Error margin (+/-)	Flow Rat	Cond.	Temp	pH
IPA #1	39° 25.514' N	110° 18.439' W	399946.05	2336903.63	7049	6	22				
IPA #2	39° 25.088' N	110° 19.144' W	397316.3	2333618.88	6872	6	17				
IPA #3	39° 24.488' N	110° 18.718' W	393701.03	2335672.92	6820	7	17				
L-01-S	39° 25.6457' N	110° 20.8662' W	400595.57	2325467.03	5826	8	19				
L-02-S	39° 25.5230' N	110° 20.7040' W	399860.709	2326240.081	5934	8	19				
L-07-G	39° 26.450' N	110° 18.223' W	405640.88	2337844.49	7354	5	19				
L-08-G	39° 25.717' N	110° 17.621' W	401229.84	2340737.86	7049	5	45				
L-09-G	39° 24.958' N	110° 17.952' W	396601.96	2339241.56	7036	6	18				
L-11-G	39° 26.618' N	110° 19.781' W	406563.58	2330498.28	7220	4	35				
L-12-G	39° 24.143' N	110° 18.038' W	391649.72	2338902.98	6762	6	29				
L-13-S	39° 24.831' N	110° 19.032' W	395763.35	2334166.82	6820	6	18				
L-14-S	39° 23.960' N	110° 18.472' W	390511.64	2336874	6678	8	19				
L-16-G	39° 24.2498' N	110° 19.5893' W	392201.033	2331589.099	5792	8	19				
L-17-G	39° 24.2957' N	110° 19.4968' W	392485.352	2332021.029	5896	8	19				
L-18-S	39° 23.9966' N	110° 20.1881' W	390627.335	2328789.29	5513	8	19				
L-19-S	39° 24.228' N	110° 19.094' W	392099.45	2333923.26	6700	5	18				
L-20-S	39° 26.314' N	110° 18.916' W	404771.98	2334593.76	7153	9	15				

RAIN GAUGES - APRIL 2008 & AUGUST 2008

RG-1	39° 25.5620' N	110° 20.8216' W	400090.286	2325683.408	5946	8	19				
RG-2	39° 25.1101' N	110° 19.1383' W	397450.92	2333644.12	6875	8	19				

SPRING & SEEP - APRIL 2008

JS-1	39° 24.2052' N	110° 19.7143' W	391922.606	2331004.009	5793	8	19	damp	-	-	-
JS-2	39° 24.3467' N	110° 19.5807' W	392789.721	2331621.879	5932	8	19	0.01	+4000	54.3	9.03
TS-1	39° 24.2667' N	110° 19.5851' W	392303.871	2331607.531	5873	8	19	0.01	+4000	40.2	8.68
TS-2	39° 24.2848' N	110° 19.5101' W	392418.37	2331959.268	6005	8	19	damp	-	-	-
TS-3	39° 24.2899' N	110° 19.5168' W	392448.911	2331927.311	5992	8	19	damp	-	-	-

CREST GAUGES - AUGUST 2008

Lila CG1	39° 25.6006' N	110° 21.0658' W	400309.785	2324530.799	5739	8	19				
Lila CG2	39° 26.7540' N	110° 18.7754' W	407451.416	2335220.175	7303	8	19				
Lila CG3	39° 26.3110' N	110° 18.8839' W	404755.876	2334745.274	7233	8	19				
Lila CG4	39° 25.4918' N	110° 18.8207' W	399787.62	2335108.598	6968	8	19				
Lila CG5	39° 23.9398' N	110° 18.4462' W	390390.749	2336997.324	6675	8	19				
Lila CG6	39° 24.8083' N	110° 18.9742' W	395629.264	2334440.693	6809	8	19				
Lila CG7	39° 23.9969' N	110° 18.9549' W	390705.618	2334596.861	6656	8	19				

Table 2

Lila Canyon Raingauge Data

Upper Site 2013

Date	Duration	Depth (in)
10/3/2013	3.5 Hrs	0.05
10/4/2013	6 Min	0.01
10/5/2013	9 Min	0.01
10/10/2013	17.5 Hrs	0.76
10/14/2013	2.25 Hrs	0.08
10/29/2013	11.5 Hrs	0.6
10/30/2013	5 Min	0.02
11/5/2013	29 Min	0.04
11/20/2013	3 Hrs	0.04
11/21/2013	10 Hrs	0.14
11/23/2013	4.25 Hrs	0.05
11/24/2013	10.5 Hrs	0.09
11/25/2013	3 Min	0.01
12/12/2013	4.2 Hrs	0.02
12/19/2013	3 Hrs	0.02

Table 3**Lila Canyon Raingauge Data****Upper Site 2014**

Date	Duration	Depth (in)
1/12/2014	1 min	0.01
1/31/2014	55 min	0.21
2/4/2014	2.5 Hours	0.03
2/7/2014	15 min	0.02
2/9/2014	12 min	0.01
2/10/2014	55 min	0.31
2/27/2014	7.5 Hours	0.18
2/28/2014	45 min	0.06
3/1/2014	6 Hours	0.13
3/7/2014	55 min	0.1
3/26/2014	4 Hours	0.02
3/30/2014	5 min	0.01
4/2/2014	18 min	0.08
4/3/2014	16 min	0.02
4/13/2014	13.25 Hours	0.36
4/26/2014	9.25 Hours	0.69
5/7/2014	27 min	0.04
5/10/2014	1.5 Hours	0.11
5/11/2014	26 min	0.09
5/23/2014	12.3 Hours	0.22
5/24/2014	11 min	0.01
5/25/2014	40 min	0.19
5/26/2014	9 min	0.01
5/31/2014	4 min	0.01
7/6/2014	8 min	0.03
7/7/2014	1.1 Hours	0.03
7/9/2014	1.6 Hours	0.05
7/10/2014	45 min	0.03
7/11/2014	3 min	0.06
7/14/2014	3 min	0.02
No additional records for 2014		

ATTACHMENT A

Annual Data Summary for the Lower Rain Gauge

Lower Gauge Data

Plot Title: lila upper 13

#	Date Time, GMT-06:00	Events (1.0), Units (LGR S/N: 11362)		
1	10/3/2013 11:32	0		
2	10/3/2013 11:32	1		
3	10/3/2013 13:02	2		
4	10/3/2013 13:14	3		
5	10/3/2013 13:44	4		
6	10/3/2013 15:00	5	0.05	3:28
7	10/4/2013 17:13	6	0.01	0:06
8	10/5/2013 9:57	7	0.01	0:09
9	10/10/2013 3:23	8		
10	10/10/2013 3:35	9		
11	10/10/2013 3:43	10		
12	10/10/2013 4:03	11		
13	10/10/2013 4:57	12		
14	10/10/2013 5:04	13		
15	10/10/2013 5:07	14		
16	10/10/2013 5:08	15		
17	10/10/2013 5:08	16		
18	10/10/2013 5:09	17		
19	10/10/2013 5:09	18		
20	10/10/2013 5:10	19		
21	10/10/2013 5:10	20		
22	10/10/2013 5:10	21		
23	10/10/2013 5:11	22		
24	10/10/2013 5:12	23		
25	10/10/2013 5:13	24		
26	10/10/2013 5:13	25		
27	10/10/2013 5:14	26		
28	10/10/2013 5:15	27		
29	10/10/2013 5:16	28		
30	10/10/2013 5:18	29		
31	10/10/2013 5:21	30		
32	10/10/2013 5:24	31		
33	10/10/2013 5:27	32		
34	10/10/2013 5:30	33		
35	10/10/2013 5:33	34		
36	10/10/2013 5:36	35		
37	10/10/2013 5:39	36		
38	10/10/2013 5:42	37		
39	10/10/2013 5:46	38		
40	10/10/2013 5:49	39		
41	10/10/2013 5:51	40		
42	10/10/2013 5:55	41		
43	10/10/2013 6:01	42		
44	10/10/2013 6:42	43		
45	10/10/2013 6:54	44		

46	10/10/2013 6:57	45		
47	10/10/2013 7:00	46		
48	10/10/2013 7:03	47		
49	10/10/2013 7:06	48		
50	10/10/2013 7:12	49		
51	10/10/2013 8:14	50		
52	10/10/2013 15:02	51		
53	10/10/2013 15:06	52		
54	10/10/2013 15:09	53		
55	10/10/2013 15:12	54		
56	10/10/2013 15:14	55		
57	10/10/2013 15:19	56		
58	10/10/2013 15:26	57		
59	10/10/2013 15:42	58		
60	10/10/2013 15:51	59		
61	10/10/2013 15:55	60		
62	10/10/2013 15:58	61		
63	10/10/2013 16:03	62		
64	10/10/2013 16:06	63		
65	10/10/2013 16:11	64		
66	10/10/2013 16:15	65		
67	10/10/2013 16:20	66		
68	10/10/2013 16:27	67		
69	10/10/2013 16:35	68		
70	10/10/2013 16:39	69		
71	10/10/2013 16:46	70		
72	10/10/2013 16:54	71		
73	10/10/2013 16:59	72		
74	10/10/2013 17:03	73		
75	10/10/2013 17:08	74		
76	10/10/2013 17:12	75		
77	10/10/2013 17:17	76		
78	10/10/2013 17:22	77		
79	10/10/2013 17:28	78		
80	10/10/2013 17:34	79		
81	10/10/2013 17:41	80		
82	10/10/2013 17:47	81		
83	10/10/2013 17:57	82		
84	10/10/2013 20:58	83	0.76	17:34
85	10/14/2013 3:36	84		
86	10/14/2013 3:45	85		
87	10/14/2013 3:49	86		
88	10/14/2013 3:53	87		
89	10/14/2013 4:00	88		
90	10/14/2013 4:09	89		
91	10/14/2013 4:20	90		
92	10/14/2013 5:56	91	0.08	2:19

93	10/29/2013 1:08	92
94	10/29/2013 1:15	93
95	10/29/2013 1:21	94
96	10/29/2013 1:26	95
97	10/29/2013 1:42	96
98	10/29/2013 1:52	97
99	10/29/2013 1:58	98
100	10/29/2013 2:04	99
101	10/29/2013 2:09	100
102	10/29/2013 2:14	101
103	10/29/2013 2:20	102
104	10/29/2013 11:34	103
105	10/29/2013 11:36	104
106	10/29/2013 11:37	105
107	10/29/2013 11:38	106
108	10/29/2013 11:39	107
109	10/29/2013 11:40	108
110	10/29/2013 11:41	109
111	10/29/2013 11:43	110
112	10/29/2013 11:44	111
113	10/29/2013 11:45	112
114	10/29/2013 11:45	113
115	10/29/2013 11:46	114
116	10/29/2013 11:47	115
117	10/29/2013 11:48	116
118	10/29/2013 11:49	117
119	10/29/2013 11:51	118
120	10/29/2013 11:52	119
121	10/29/2013 11:53	120
122	10/29/2013 11:54	121
123	10/29/2013 11:55	122
124	10/29/2013 11:56	123
125	10/29/2013 11:57	124
126	10/29/2013 11:59	125
127	10/29/2013 12:00	126
128	10/29/2013 12:02	127
129	10/29/2013 12:04	128
130	10/29/2013 12:05	129
131	10/29/2013 12:08	130
132	10/29/2013 12:10	131
133	10/29/2013 12:12	132
134	10/29/2013 12:14	133
135	10/29/2013 12:15	134
136	10/29/2013 12:16	135
137	10/29/2013 12:18	136
138	10/29/2013 12:19	137
139	10/29/2013 12:20	138

140	10/29/2013 12:21	139		
141	10/29/2013 12:23	140		
142	10/29/2013 12:24	141		
143	10/29/2013 12:26	142		
144	10/29/2013 12:28	143		
145	10/29/2013 12:29	144		
146	10/29/2013 12:31	145		
147	10/29/2013 12:33	146		
148	10/29/2013 12:35	147		
149	10/29/2013 12:37	148		
150	10/29/2013 12:40	149		
151	10/29/2013 12:42	150		
152	10/29/2013 12:43	151	0.6	11:35
153	10/30/2013 10:00	152		
154	10/30/2013 10:06	153	0.02	0:05
155	11/5/2013 11:04	154		
156	11/5/2013 11:10	155		
157	11/5/2013 11:27	156		
158	11/5/2013 11:34	157	0.04	0:29
159	11/20/2013 19:24	158		
160	11/20/2013 19:42	159		
161	11/20/2013 20:36	160		
162	11/20/2013 22:30	161	0.04	3:06
163	11/21/2013 5:19	162		
164	11/21/2013 5:35	163		
165	11/21/2013 6:19	164		
166	11/21/2013 6:46	165		
167	11/21/2013 7:12	166		
168	11/21/2013 7:41	167		
169	11/21/2013 8:03	168		
170	11/21/2013 8:30	169		
171	11/21/2013 8:54	170		
172	11/21/2013 9:15	171		
173	11/21/2013 9:33	172		
174	11/21/2013 9:48	173		
175	11/21/2013 10:03	174		
176	11/21/2013 15:08	175	0.14	9:49
177	11/23/2013 18:25	176		
178	11/23/2013 19:11	177		
179	11/23/2013 19:42	178		
180	11/23/2013 21:11	179		
181	11/23/2013 22:43	180	0.05	4:17
182	11/24/2013 1:49	181		
183	11/24/2013 11:36	182		
184	11/24/2013 11:38	183		
185	11/24/2013 11:40	184		
186	11/24/2013 11:44	185		

187	11/24/2013 11:53	186		
188	11/24/2013 11:59	187		
189	11/24/2013 12:06	188		
190	11/24/2013 12:14	189	0.09	10:25
191	11/25/2013 11:19	190	0.01	0:03
192	12/12/2013 13:45	191		
193	12/12/2013 13:50	192		
194	12/12/2013 13:59	193		
195	12/12/2013 14:07	194		
196	12/12/2013 14:15	195		
197	12/12/2013 14:20	196		
198	12/12/2013 14:34	197		
199	12/12/2013 14:44	198		
200	12/12/2013 14:53	199		
201	12/12/2013 15:10	200		
202	12/12/2013 15:30	201	0.11	1:44
203	12/19/2013 10:40	202		
204	12/19/2013 11:52	203		
205	12/19/2013 11:53	204		
206	12/19/2013 11:58	205		
207	12/19/2013 12:06	206		
208	12/19/2013 12:12	207		
209	12/19/2013 12:17	208		
210	12/19/2013 12:26	209	0.08	1:46

2.09

Plot Title: lila upper 1-14

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213	1/31/2014 14:29	2		
214	1/31/2014 14:30	3		
215	1/31/2014 14:31	4		
216	1/31/2014 14:32	5		
217	1/31/2014 14:33	6		
218	1/31/2014 14:35	7		
219	1/31/2014 14:36	8		
220	1/31/2014 14:37	9		
221	1/31/2014 14:39	10		
222	1/31/2014 14:41	11		
223	1/31/2014 14:44	12		
224	1/31/2014 14:49	13		
225	1/31/2014 14:53	14		
226	1/31/2014 14:56	15		
227	1/31/2014 14:58	16		
228	1/31/2014 15:01	17		
229	1/31/2014 15:04	18		
230	1/31/2014 15:07	19		
231	1/31/2014 15:11	20		
232	1/31/2014 15:16	21		
233	1/31/2014 15:24	22	0.21	0:55
234	2/4/2014 10:39	23		
235	2/4/2014 11:43	24		
236	2/4/2014 13:06	25	0.03	2:27
237	2/7/2014 12:03	26		
238	2/7/2014 12:10	27	0.02	0:15
239	2/9/2014 15:34	28	0.01	0:12
240	2/10/2014 11:33	29		
241	2/10/2014 11:34	30		
242	2/10/2014 11:35	31		
243	2/10/2014 11:36	32		
244	2/10/2014 11:37	33		
245	2/10/2014 11:38	34		
246	2/10/2014 11:39	35		
247	2/10/2014 11:40	36		
248	2/10/2014 11:41	37		
249	2/10/2014 11:43	38		
250	2/10/2014 11:44	39		
251	2/10/2014 11:45	40		
252	2/10/2014 11:47	41		
253	2/10/2014 11:48	42		
254	2/10/2014 11:50	43		
255	2/10/2014 11:51	44		

256	2/10/2014 11:53	45		
257	2/10/2014 11:55	46		
258	2/10/2014 11:57	47		
259	2/10/2014 11:59	48		
260	2/10/2014 12:01	49		
261	2/10/2014 12:03	50		
262	2/10/2014 12:04	51		
263	2/10/2014 12:07	52		
264	2/10/2014 12:09	53		
265	2/10/2014 12:11	54		
266	2/10/2014 12:14	55		
267	2/10/2014 12:17	56		
268	2/10/2014 12:20	57		
269	2/10/2014 12:24	58		
270	2/10/2014 12:28	59	0.31	0:55
271	2/27/2014 14:23	60		
272	2/27/2014 14:27	61		
273	2/27/2014 14:32	62		
274	2/27/2014 14:37	63		
275	2/27/2014 14:42	64		
276	2/27/2014 14:47	65		
277	2/27/2014 15:11	66		
278	2/27/2014 15:30	67		
279	2/27/2014 15:40	68		
280	2/27/2014 15:46	69		
281	2/27/2014 15:51	70		
282	2/27/2014 15:58	71		
283	2/27/2014 16:03	72		
284	2/27/2014 16:07	73		
285	2/27/2014 16:13	74		
286	2/27/2014 16:18	75		
287	2/27/2014 16:35	76		
288	2/27/2014 21:53	77	0.18	7:30
289	2/28/2014 23:09	78		
290	2/28/2014 23:15	79		
291	2/28/2014 23:21	80		
292	2/28/2014 23:27	81		
293	2/28/2014 23:38	82		
294	2/28/2014 23:56	83	0.06	0:46
295	3/1/2014 0:01	84		
296	3/1/2014 0:07	85		
297	3/1/2014 0:11	86		
298	3/1/2014 0:16	87		
299	3/1/2014 0:22	88		
300	3/1/2014 0:31	89		
301	3/1/2014 1:19	90		
302	3/1/2014 1:55	91		

303	3/1/2014 3:33	92		
304	3/1/2014 4:17	93		
305	3/1/2014 5:49	94		
306	3/1/2014 5:58	95		
307	3/1/2014 6:03	96	0.13	6:02
308	3/7/2014 0:52	97		
309	3/7/2014 0:56	98		
310	3/7/2014 1:01	99		
311	3/7/2014 1:09	100		
312	3/7/2014 1:13	101		
313	3/7/2014 1:19	102		
314	3/7/2014 1:24	103		
315	3/7/2014 1:31	104		
316	3/7/2014 1:37	105		
317	3/7/2014 1:47	106	0.1	0:55
318	3/26/2014 17:56	107		
319	3/26/2014 21:48	108	0.02	3:51
320	3/30/2014 18:54	109	0.01	21:05
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Plot Title: lila upper 2-14

#	Date Time, GMT-06:00	Events (1.0), Units (LGR S/N: 11362)		
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324	4/2/2014 12:50	3		
325	4/2/2014 12:52	4		
326	4/2/2014 12:54	5		
327	4/2/2014 12:57	6		
328	4/2/2014 13:01	7		
329	4/2/2014 13:06	8	0.08	0:18
330	4/3/2014 9:39	9		
331	4/3/2014 9:55	10	0.02	0:16
332	4/13/2014 4:31	11		
333	4/13/2014 4:35	12		
334	4/13/2014 4:38	13		
335	4/13/2014 4:40	14		
336	4/13/2014 4:43	15		
337	4/13/2014 4:44	16		
338	4/13/2014 4:45	17		
339	4/13/2014 4:46	18		
340	4/13/2014 4:47	19		
341	4/13/2014 4:49	20		
342	4/13/2014 4:50	21		
343	4/13/2014 4:52	22		
344	4/13/2014 4:54	23		
345	4/13/2014 4:58	24		
346	4/13/2014 5:03	25		
347	4/13/2014 5:07	26		
348	4/13/2014 5:11	27		
349	4/13/2014 5:14	28		
350	4/13/2014 5:16	29		
351	4/13/2014 5:18	30		
352	4/13/2014 5:20	31		
353	4/13/2014 5:22	32		
354	4/13/2014 5:24	33		
355	4/13/2014 5:27	34		
356	4/13/2014 5:28	35		
357	4/13/2014 5:30	36		
358	4/13/2014 5:33	37		
359	4/13/2014 5:35	38		
360	4/13/2014 5:37	39		
361	4/13/2014 5:40	40		
362	4/13/2014 5:43	41		
363	4/13/2014 5:47	42		
364	4/13/2014 5:51	43		
365	4/13/2014 5:57	44		

366	4/13/2014 6:03	45		
367	4/13/2014 17:50	46	0.36	13:18
368	4/26/2014 9:48	47		
369	4/26/2014 9:54	48		
370	4/26/2014 12:01	49		
371	4/26/2014 12:04	50		
372	4/26/2014 12:10	51		
373	4/26/2014 12:16	52		
374	4/26/2014 12:19	53		
375	4/26/2014 12:22	54		
376	4/26/2014 12:23	55		
377	4/26/2014 13:08	56		
378	4/26/2014 14:35	57		
379	4/26/2014 14:36	58		
380	4/26/2014 14:37	59		
381	4/26/2014 14:38	60		
382	4/26/2014 14:39	61		
383	4/26/2014 14:39	62		
384	4/26/2014 14:40	63		
385	4/26/2014 14:42	64		
386	4/26/2014 14:43	65		
387	4/26/2014 14:44	66		
388	4/26/2014 14:45	67		
389	4/26/2014 14:46	68		
390	4/26/2014 14:47	69		
391	4/26/2014 14:48	70		
392	4/26/2014 14:49	71		
393	4/26/2014 14:49	72		
394	4/26/2014 14:50	73		
395	4/26/2014 14:51	74		
396	4/26/2014 14:53	75		
397	4/26/2014 14:55	76		
398	4/26/2014 14:57	77		
399	4/26/2014 14:58	78		
400	4/26/2014 16:06	79		
401	4/26/2014 16:44	80		
402	4/26/2014 17:43	81		
403	4/26/2014 17:44	82		
404	4/26/2014 17:45	83		
405	4/26/2014 17:47	84		
406	4/26/2014 17:48	85		
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408	4/26/2014 17:52	87		
409	4/26/2014 17:55	88		
410	4/26/2014 17:56	89		
411	4/26/2014 17:58	90		
412	4/26/2014 18:00	91		

413	4/26/2014 18:03	92		
414	4/26/2014 18:04	93		
415	4/26/2014 18:06	94		
416	4/26/2014 18:07	95		
417	4/26/2014 18:09	96		
418	4/26/2014 18:11	97		
419	4/26/2014 18:12	98		
420	4/26/2014 18:14	99		
421	4/26/2014 18:16	100		
422	4/26/2014 18:18	101		
423	4/26/2014 18:20	102		
424	4/26/2014 18:22	103		
425	4/26/2014 18:24	104		
426	4/26/2014 18:27	105		
427	4/26/2014 18:29	106		
428	4/26/2014 18:31	107		
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430	4/26/2014 18:37	109		
431	4/26/2014 18:40	110		
432	4/26/2014 18:43	111		
433	4/26/2014 18:49	112		
434	4/26/2014 18:52	113		
435	4/26/2014 18:57	114		
436	4/26/2014 19:03	115	0.69	9:15
437	5/7/2014 18:49	116		
438	5/7/2014 19:03	117		
439	5/7/2014 19:07	118		
440	5/7/2014 19:16	119	0.04	0:27
441	5/10/2014 22:11	120		
442	5/10/2014 22:21	121		
443	5/10/2014 22:41	122		
444	5/10/2014 22:55	123		
445	5/10/2014 23:02	124		
446	5/10/2014 23:05	125		
447	5/10/2014 23:08	126		
448	5/10/2014 23:16	127		
449	5/10/2014 23:24	128		
450	5/10/2014 23:32	129		
451	5/10/2014 23:39	130	0.11	1:28
452	5/11/2014 9:05	131		
453	5/11/2014 9:08	132		
454	5/11/2014 9:10	133		
455	5/11/2014 9:12	134		
456	5/11/2014 9:15	135		
457	5/11/2014 9:19	136		
458	5/11/2014 9:22	137		
459	5/11/2014 9:26	138		

460	5/11/2014 9:32	139	0.09	0:26
461	5/23/2014 8:08	140		
462	5/23/2014 8:17	141		
463	5/23/2014 8:21	142		
464	5/23/2014 8:23	143		
465	5/23/2014 8:26	144		
466	5/23/2014 8:32	145		
467	5/23/2014 8:38	146		
468	5/23/2014 8:47	147		
469	5/23/2014 9:06	148		
470	5/23/2014 9:15	149		
471	5/23/2014 10:10	150		
472	5/23/2014 10:29	151		
473	5/23/2014 19:34	152		
474	5/23/2014 19:45	153		
475	5/23/2014 19:52	154		
476	5/23/2014 19:58	155		
477	5/23/2014 20:07	156		
478	5/23/2014 20:11	157		
479	5/23/2014 20:14	158		
480	5/23/2014 20:17	159		
481	5/23/2014 20:23	160		
482	5/23/2014 20:31	161	0.22	12:22
483	5/24/2014 5:05	162	0.01	0:11
484	5/25/2014 20:58	163		
485	5/25/2014 21:04	164		
486	5/25/2014 21:05	165		
487	5/25/2014 21:06	166		
488	5/25/2014 21:07	167		
489	5/25/2014 21:07	168		
490	5/25/2014 21:08	169		
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496	5/25/2014 21:13	175		
497	5/25/2014 21:14	176		
498	5/25/2014 21:16	177		
499	5/25/2014 21:18	178		
500	5/25/2014 21:22	179		
501	5/25/2014 21:30	180		
502	5/25/2014 21:38	181	0.19	0:40
503	5/26/2014 3:45	182	0.01	0:09
504	5/31/2014 22:40	183	0.01	0:04

1.83

Plot Title: lila upper 3-14

#	Date Time, GMT-06:00	Events (1.0)	Units (LGR S/N: 11362)	
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507	7/6/2014 15:35	2		
508	7/6/2014 15:42	3	0.03	0:08
509	7/7/2014 22:08	4		
510	7/7/2014 22:22	5		
511	7/7/2014 23:20	6	0.03	1:11
512	7/9/2014 22:11	7		
513	7/9/2014 22:16	8		
514	7/9/2014 22:54	9		
515	7/9/2014 23:10	10		
516	7/9/2014 23:49	11	0.05	1:38
517	7/10/2014 0:34	12		
518	7/10/2014 0:56	13		
519	7/10/2014 1:19	14	0.03	0:45
520	7/11/2014 19:14	15		
521	7/11/2014 19:15	16		
522	7/11/2014 19:16	17		
523	7/11/2014 19:17	18		
524	7/11/2014 19:17	19		
525	7/11/2014 19:18	20	0.06	0:03
526	7/14/2014 11:35	21		
527	7/14/2014 11:38	22	0.02	0:03

0.22

2014

Annual Report

Soil Salvage

TOPSOIL MOVEMENT & CONSTRUCTION RECORD

UTAHAMERICAN ENERGY

LILA CANYON MINE

December 2008-August 2014

Report Updated February 2015



Prepared by

J. T. Paluso, P. E.

EIS ENVIRONMENTAL & ENGINEERING CONSULTING
31 North Main, Helper, Utah 84526

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Scope of Work

EIS Environmental & Engineering Consulting (EIS) was hired by UtahAmerican Energy, Inc (UEI) to monitor the removal of topsoil from the Lila Canyon Mine for Phase I construction activities.

Phase I consisted of the following activities:

- Construct stormwater detention ponds. These ponds are needed to contain all runoff coming from disturbed areas.
- Construct portal access road. Due to the length of time required to construct the underground rock slopes, it was necessary to construct the portal access road during Phase I of the construction activities.
- Remove topsoil from the west portion of the coal stockpile area. This area was needed to provide storage space for material generated during the construction of the underground rock slopes.
- Remove topsoil from the warehouse pad area. This area was also needed to provide storage space for material generated from the rock slope construction work.
- Construct employee parking and temporary bathhouse area. This area was needed to provide parking space and bathhouse facilities for the crews developing the rock slopes.

During Phase I activities the follow amounts of topsoil were generated from the various locations:

LOCATION	LOADS	VOLUME (Yd ³)
Employee Parking Lot	378	12,110
Portal Road	238	7,622
Storm Water Detention Pond	154	4,943
Small Detention Pond	61	1,940
Coal Stockpile	269	8,601
Warehouse Pad	137	4,385
Topsoil Area	Push with Dozer	646
TOTAL		40,247 Yd³

**LILA CANYON MINE
TOPSOIL & CONSTRUCTION ACTIVITY RECORD**

December 24, 2008 (Mel Coonrod & Matt Serfustini)

The following activities were observed during this visit:

1. Fill material was being removed from the stormwater detention pond. Some topsoil still remains to be removed from the pond area.
2. Work on portal access road was proceeding.
3. Topsoil was being removed from employee parking area.
4. Topsoil had been removed from west end of coal pile area.

PHOTOGRAPHS



LOOKING SOUTH TOWARDS TOPSOIL STORAGE AREA



MATERIAL REMOVED FROM TOPSOIL STORAGE SITE



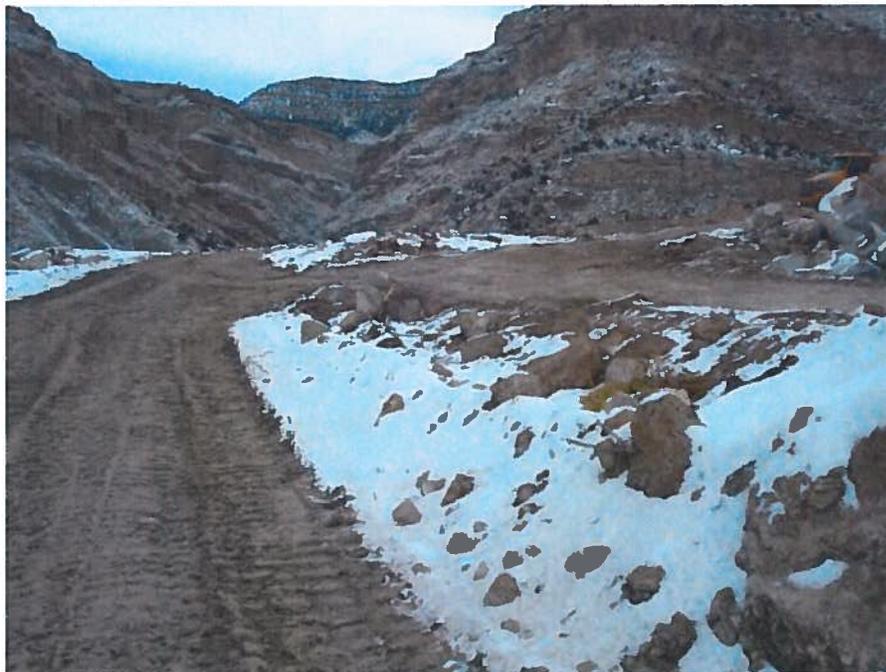
**PORTAL ACCESS ROAD TOPSOIL NORTH OF COAL STOCKPILE, PHOTO
TAKEN LOOKING EAST**



**SOIL PROFILE ON PORTAL ACCESS ROAD LOOKING NORTH, TAKEN
ADJACENT TO PRIOR PHOTOGRAPH**



**TOPSOIL REMOVAL SOUTH END OF EMPLOYEE PARKING LOT
LOOKING SOUTH EAST**



SOUTH OF LOADOUT STATION LOOKING NORTH



SOUTH OF LOADOUT STATION LOOKING SOUTH



SOIL PROFILE AT THE SAME LOCATION AS THE TWO PREVIOUS PHOTOGRAPHS



BOULDER REMOVAL SOUTH OF LOADOUT STATION LOOKING NORTH



EMPLOYEE PARKING AREA LOOKING SOUTH

December 30, 2008(Tom Paluso)

The following activities were observed during my site visit:

1. Fill material was being removed from portal access road. Contractor was working on side slopes on the portal access road.
2. Topsoil was being removed from employee parking area and delivered to the topsoil storage area.
3. Contractor was breaking large rocks on west end of coal storage pile. The large rocks were being reduced to make it easier to obtain necessary compaction with fill material being deposited in this area.

PHOTOGRAPHS



TOPSOIL REMOVAL FROM EMPLOYEE PARKING AREA



LOOKING SOUTHWEST OVER PROJECT AREA

January 7, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Contractor was transporting topsoil from office area to topsoil site.
2. Portal access road grade was being lowered northeast of employee's parking area.
3. Hydraulic hoes were working on portal area.

The stormwater detention pond still has approximately 15 percent of the topsoil to be removed. This material is located in the southeast corner of the pond. According to Shane Campbell this material was intentionally left to provide work during bad weather conditions. Shane also mentioned that topsoil removal at the warehouse site should probably start on January 15 or 16.

PHOTOGRAPHS



TOPSOIL REMOVAL FROM OFFICE AREA



BOULDERS BEING SEPARATED FROM TOPSOIL MATERIAL



LOWER PORTAL ACCESS ROAD GRADE



FILL MATERIAL BEING REMOVED FROM PORTAL ACCESS ROAD



HYDRAULIC BACKHOES WORKING ON PORTAL AREA

January 15, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Large boulders are being crushed to make gravel for this project.
2. Boulders are being stockpiled at future coal stockpile site. These boulders will be crushed into gravel.
3. Work on the portal area is still in progress.

PHOTOGRAPHS



BOULDERS BEING CRUSHED INTO GRAVEL



CRUSHED GRAVEL PILE



BOULDERS BEING STOCKPILED FOR CRUSHING

January 28, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Removing material from north end of parking lot.
2. Removing topsoil from stacking tube area.
3. Employee parking lot grading.

PHOTOGRAPHS



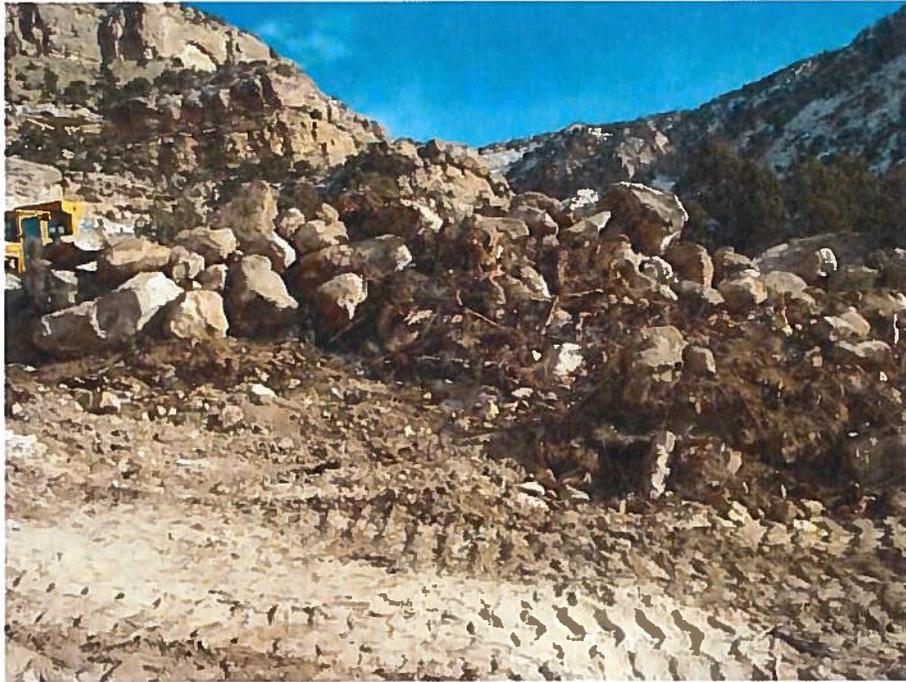
PARKING LOT MATERIAL REMOVAL



FINAL GRADING WEST END OF EMPLOYEE PARKING AREA



EMPLOYEE PARKING LOOKING NORTH WITH CRUSHED GRAVEL PILE



BOULDER REMOVAL FROM STACKING TUBE AREA LOOKING EAST



TOPSOIL REMOVAL FROM STACKING TUBE AREA LOOKING NORTH



STACKING TUBE AREA LOOKING EAST TOWARDS PORTALS



EAST OF STACKING TUBE LOOKING WEST

January 29, 2009 (Tom Paluso)

The following activities were observed during site visit:

- 1 Removing material from north end of parking lot.
- 2 Removing topsoil from stacking tube area.
- 3 Employee parking lot grading.

PHOTOGRAPHS



TOPSOIL PROFILE BY STACKING TUBE AREA



CLOSE-UP OF TOPSOIL PROFILE

February 6, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Removing topsoil from shop-warehouse area.
2. Completing work around silo area.

PHOTOGRAPHS



LOOKING SOUTHEAST FROM SILO AREA, TOPSOIL IS BEING COLLECTED



COLLECTING BOULDERS AND VEGETATION



LOOKING NORTHEAST FROM SILO AREA, TOPSOIL HAS BEEN REMOVED

February 18, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Removing topsoil from small Stormwater Detention Pond.
2. Removing remaining topsoil from large Stormwater Detention Pond.
3. Working on final grade for Portal Access Road

PHOTOGRAPHS



**SIGN LOCATED BY CONSTRUCTION OFFICE & NEAR SMALL
STORMWATER DETENTION POND**



**COLLECTING TOPSOIL AT SMALL STORMWATER RETENTION POND
(SRP)**



COLLECTING TOPSOIL AT SMALL SRP



REMOVING BOULDER FROM SMALL SRP



NORTHEAST SOIL PROFILE



SOUTHEAST SOIL PROFILE



**REMOVE REMAINING MATERIAL FROM LARGE STORMWATER
RETENTION POND (SRP)**



WEST END LARGE SRP



FINAL WORK ON PORTAL ROAD



TOPSOIL PILE LOOKING NORTHEAST



TOPSOIL PILE LOOKING SOUTH EAST

FOR TOPSOIL TRACKING PURPOSES, PHASE I OPERATIONS ENDS HERE

September 30, 2009 (Tom Paluso)

Lila Canyon Mine is in the process of installing a temporary coal conveyor belt that will be used to remove coal from the mine while the permanent conveyor belt is installed. According to Jay Marshall, this temporary conveyor belt may be used for up to five years while the permanent system is completed.

The construction of this temporary conveyor belt will require concrete supports for bent installations. Topsoil removal at this point is necessary to provide access for equipment required for bent construction. During this phase of topsoil removal 9,324 cubic yards of topsoil was salvaged.



REMOVAL OF TOPSOIL NEAR PORTAL



SOIL PROFILE



TOPSOIL BEING DELIVERED TO TOPSOIL PILE

April 28, 2010 (Tom Paluso)

Scamp Excavation was removing topsoil from the warehouse pad and temporary coal pad. During this section of topsoil removal, 3,772 cubic yards of topsoil was salvaged.



TOPSOIL REMOVAL NEAR PORTAL ROAD



CLOSEUP VIEW OF TOPSOIL MATERIAL



DISTRIBUTION OF TOPSOIL AT TOPSOIL STORAGE AREA

May 26, 2010 (Tom Paluso)

Nielson Construction is removing topsoil from the substation pad area. Approximately 2,100 cubic yards of topsoil was salvaged from this area.



TOPSOIL PROFILE



SUBSTATION PAD LOOKING TOWARDS PORTAL



TOPSOIL PILE AT SUBSTATION SITE



VEGETATION REMOVED FROM TOPSOIL AT SUBSTATION SITE

July 15, 2010 (Tom Paluso)

Scamp Excavation salvaging topsoil at stockpile pad and warehouse pad. Both of these pads are being enlarged to accommodate next phase of construction activities. A total of 6,930 cubic yards of topsoil was salvaged during this section of topsoil removal.



WAREHOUSE PAD BELOW PORTALS



VEGETATION SEPARATION AT SITE



TOPSOIL PLACED AT TOPSOIL PILE



TOPSOIL AT TOPSOIL PILE

June 23, 2014 (Tom Paluso)

Scamp Excavation removed topsoil from the Portal Borrow Area. This area is adjacent to portal road. The area on which the topsoil was removed was approximately 120' x 100'. A total of 333 cubic yards were removed and placed in the topsoil pile. Refer to the pictures below.



TOPSOIL REMOVAL PORTAL BORROW AREA (JULY 23, 2014)



LOOKING TOWARDS LILA CANYON



SOIL PROFILE AT TOP OF CUT

August 20, 2014 (Tom Paluso)

Scamp Excavation from August 20 through August 22, 2014, removed topsoil from the south end of the Upper Pad Area and the Middle Pad Area. A total of 1040 cubic yards were removed from these two areas. The pH of the soil was 7.1. The Upper Pad Area is approximately 500' long.

On August 25- 26, topsoil removal was moved to the Truck Loop Area. The Truck Loop Area is north and adjacent to the Access Road going to the portals. A total of 720 cubic yards were removed and sent to the topsoil pile.



UPPER PAD AREA LOOKING SOUTH WEST



UPPER PAD AREA LOOKING SOUTHEAST



TRUCK LOOP AREA LOOKING TOWARDS PORTAL



TRUCK LOOP AREA CLOSER TO PORTALS

TOTAL TOPSOIL REMOVAL TABLE AS OF AUGUST 2014

LOCATION	LOADS	VOLUME (Yd³)
Employee Parking Lot	378	12,110
Portal Road	238	7,622
Storm Water Detention Pond	154	4,943
Small Detention Pond	61	1,940
Coal Stockpile/Warehouse pads	793*	33,012
Topsoil Area	Push with Dozer	646
Substation Area	*	2,100
Portal Borrow Area	*	333
Upper & Middle Pod	26	1,040
Truck Loop Area	18	720
Total		64,446 (Yd³)

*** Total Truck Count Not Reported**

APPENDIX 1
TOPSOIL REMOVAL MAP

2014

Annual Report

Fan Portal Barricade
Inspection Report

EIS Environmental & Engineering Consulting
31 North Main Street * Helper, Utah 84526
Office – (435) 472-3814 * Toll free – (800) 641-2927 * Fax – (435) 472-8780
eisec@preciscom.net

October 28, 2014

Jay Marshall
UtahAmerican Energy, Inc.
PO Box 910
East Carbon, UT 84520

RE: Horse Canyon Mine Portal

On October 24, 2014, Joe Via from EIS Environmental and Engineering Consulting visited the closed Horse Canyon Mine portals in Lila Canyon to inspect the portal fence and closures for signs of vandalism and general status. Several photographs were taken of the portals.

There was no evidence of vandalism or tampering to the southern portal fence and there were no openings or structural damage to the fence. There was no evidence of vandalism to the northern portal. The northern portal was sealed with rock and could not be entered. The signs at both portals remain posted.

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31 North Main Street * Helper, Utah 84526
Office – (435) 472-3814 * Toll free – (800) 641-2927 * Fax – (435) 472-8780
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All Photographs Taken October 24, 2014



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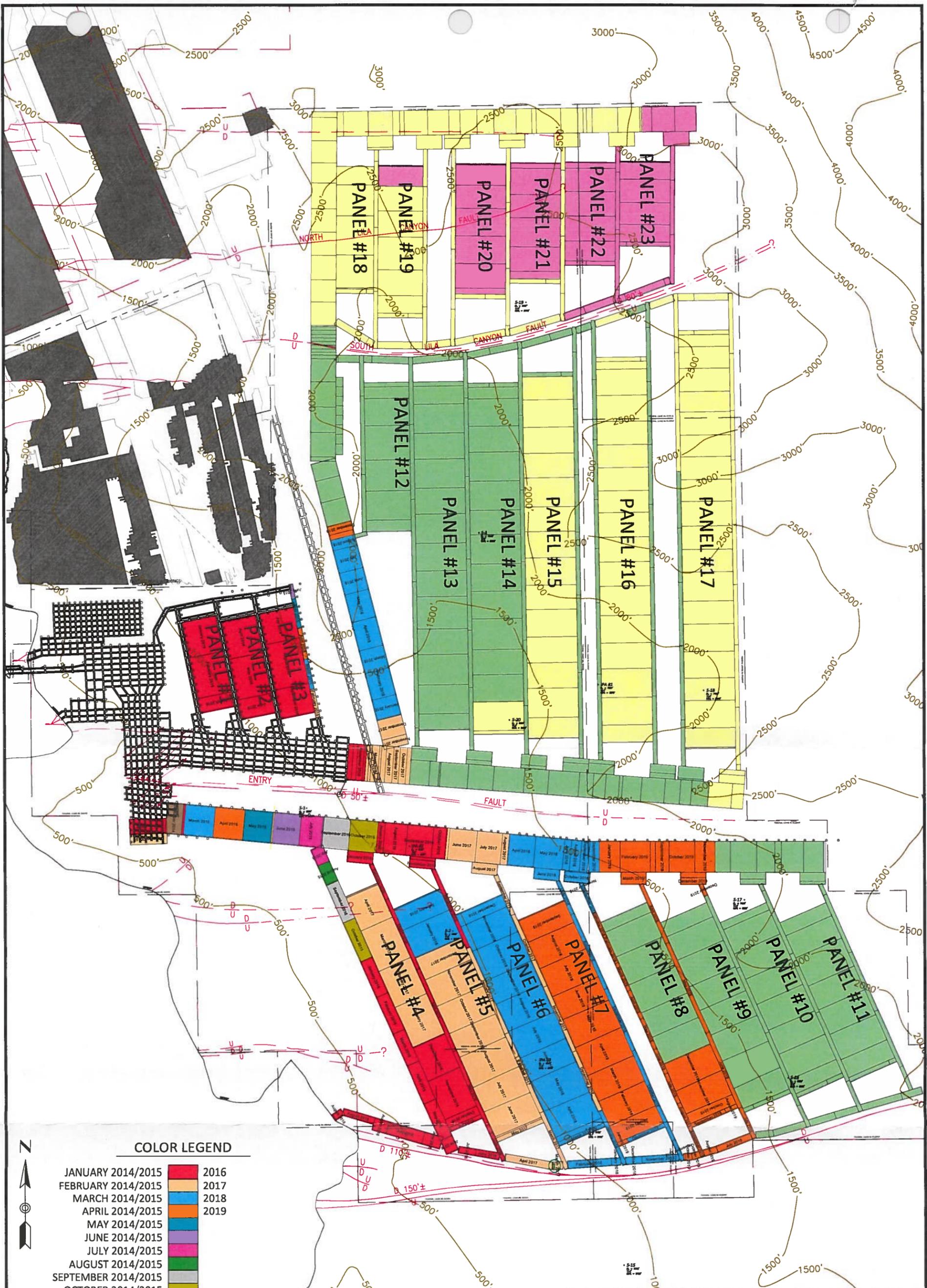
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2014

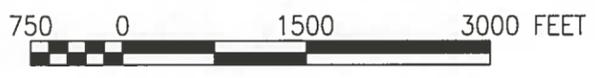
Annual Report

Mine Map



COLOR LEGEND

JANUARY 2014/2015	2016
FEBRUARY 2014/2015	2017
MARCH 2014/2015	2018
APRIL 2014/2015	2019
MAY 2014/2015	
JUNE 2014/2015	
JULY 2014/2015	
AUGUST 2014/2015	
SEPTEMBER 2014/2015	
OCTOBER 2014/2015	
NOVEMBER 2014/2015	
DECEMBER 2014/2015	
2020 THROUGH 2024	
2025 THROUGH 2029	
2030 THROUGH 2034	



UtahAmerican Energy, Inc.

**R2P2 AMENDMENT
TIMING MAP**

LILA CANYON MINE

23415 North Lila Canyon Road
Green River, Utah 84525

MSHA MINE ID # 42-02241

DRAWN BY	PJ	SCALE	1" = 1500'
APPROVED BY	DH	DATE	13 JAN. 2015
PLATE			2 of 2

794 NORTH "C" CANYON ROAD, EAST CARBON, UTAH 84520
P.O. BOX 910, EAST CARBON, UTAH 84520
PHONE: (435) 888-4000 FAX: (435) 888-4002