

COLORADO OFFICE  
10758 W. CENTENNIAL RD., STE. 200  
LITTLETON, CO 80127  
TEL: (866) 981-4588  
FAX: (720) 981-5643



WYOMING OFFICE  
5880 ENTERPRISE DR., STE. 200  
CASPER, WY 82609  
TEL: (307) 265-2373  
FAX: (307) 265-2801

**LOST CREEK ISR, LLC**

October 30, 2015

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

**Re: Quarterly Reporting Pursuant to License Condition 11.1(A) and 10.8(C)  
3rd Quarter 2015  
Lost Creek ISR Project License SUA-1598**

To Whom It May Concern:

This quarterly report has been submitted in accordance with License Condition 11.1(A) for Lost Creek ISR, LLC's (LCI) Lost Creek Project License SUA-1598. License Condition 11.1(A) requires quarterly reporting of the results of excursion monitoring. Additionally, this report includes the results of the quarterly Storage Pond inspections pursuant to LC 10.8(C). This report summarizes the following items:

- Excursion monitoring that has occurred during operations as described in the NRC License Application Technical Report (TR) Section 5.7.8.2;
- Summary report of the quarterly Storage Ponds inspections in accordance with TR Section 5.3.2.3.

The reporting period for this report is the third calendar quarter of 2015 spanning from July 1 to September 30, 2015.

#### **MONITORING AND RESULTS**

Excursion monitoring parameters include alkalinity, chloride, and specific conductance for which associated Upper Control Limits (UCLs) have been established on a well-by-well basis. Header houses HH1-1 through HH1-11 within Mine Unit 1 were operational as of the end of the reporting period. An excursion may be indicated by any one analytical parameter result exceeding the associated UCL by 20% or more or by two or three results exceeding the applicable UCL.

All of MU1 monitor wells were sampled routinely which includes 28 monitor ring wells and 26 (13 overlying and 13 underlying) mine unit wells. Sampling was conducted on a semi-monthly

*Lost Creek ISR, LLC is a wholly-owned subsidiary of Ur-Energy Inc.*  
TSX: URE  
www.ur-energy.com

NHSS 01  
NHSS

basis at least 10 days apart during production within Mine Unit 1. The results of the excursion monitoring sample analysis are provided on **Attachment 1**. The table displays the analytical result, the applicable UCL value, and the percent difference. A negative percent difference indicates the analytical value is less than the UCL. The percent difference (or percent change) is determined by the following formula:

$$\% \text{ Difference} = \frac{\text{Result} - \text{UCL}}{\text{UCL}} \times 100\%$$

As described in the associated excursion reports, one excursion at MU-109 continued from the previous quarter and another two at MU-104 occurred during the quarter. The excursion at MU-109 from the previous quarter achieved corrected status on September 22, 2015. An excursion occurred at MU-104 on July 13, corrected as of August 4 but reoccurred on August 26. The reoccurrence happened a short time after the injection was restarted in the vicinity following the correction of the prior excursion. The injection was adjusted and the second excursion corrected as of September 14, 2015. Other minor, isolated instances of UCL exceedances occurred during the quarter:

- July 7, 2015: M-118 and M-119 alkalinity values slightly exceeded the associated UCL
- September 25, 2015: MO-113 alkalinity value slightly exceeded the associated UCL

No other exceedance of UCLs, other than the excursions discussed below, occurred during the quarter. Samples could not be collected from the regional DE horizon wells LC29M and MB-10 due to low water yield.

#### *Excursion Status and Corrective Action*

There were currently no wells on excursion status as of the end of the reporting period. As described in the associated excursion reports previously submitted to NRC, three excursions had been in progress or had occurred during the quarter, one at MU-109 and two at MU-104:

- Excursion MU-109 was in long-term status which carried over from the previous quarter. Corrected status was achieved at MU-109 on September 22, 2015.
- The first excursion at MU-104 was confirmed from the July 13, 2015 sample data and immediately corrected as of August 4, 2015 and;
- The second excursion at MU-104 was confirmed from the August 26, 2015 data and corrected as of September 14, 2015

The status of MU-109 and MU-104 was updated as described in each summary report submitted October 27, 2015.

## STORAGE PONDS INSPECTION AND MONITORING

The quarterly Storage Pond monitoring and inspection was completed from September 29 to October 2, 2015.

The following items are discussed relating to overall operations of the Ponds over the quarter:

- Freeboard
- Routine Inspections
- Leak detection system
- Water quality monitoring
- Pond monitor wells
- Pond repairs or maintenance

### *Freeboard*

The proper amount of freeboard was maintained during the reporting period during normal operations. The freeboard levels in either Pond were not less than the minimum freeboard limit of 3 feet.

### *Routine Inspections*

Daily inspections were conducted each day throughout the quarter. However, inspections on August 27, September 10, and September 11, 2015 were not completed by the primary or secondary inspectors due to other assignments and/or unexpected absences and a tertiary inspector either was not informed they needed to inspect or failed to inspect.

### *Leak Detection System*

Water continued to be present in the leak detection sumps (LD sumps) during the reporting quarter. The sump pumps were used manually to purge water from the sumps. In both LD Sumps the source of the water is attributed to residual water between the liners entering the sump from the pipe boot leaks that were repaired. It is unknown as to when the water will be depleted but the significant reduction in the recharge rates of the sumps demonstrates the repairs to the liner boots was effective. However, some samples were collected and measured for conductivity and other parameters (**Table 2** below) as described in water quality monitoring below.

Sump water level data and pump totalizer readings are provided on the table in **Attachment 2**. Levels in the sumps had exceeded the 6 inch level on several occasions and samples were collected on one of those occasions for comparison. However, notifications were not sent for each event that the sump levels were over 6 inches due to the allowance of a stabilization period following repairs (Lange Containment Systems who did the repairs stated that residual

between the liners could collect in the sump for up to a year or more). Water quality in the sumps (**Table 2**) is indicative of residual water that had infiltrated between the liners due to the former pipe boot leakage and therefore leak detection protocol performed for each event would likely result in a false positive. As an alternative, LD sump recharge rates were monitored daily to determine if a post-repair leak were to have occurred which could be indicated by an increase in the recharge rate. There has been no indication of an increase in infiltration of water during the quarter. The average recharge rates of the North and South Pond Sumps are decreasing per quarter are shown in the **Table 1** below:

**TABLE 1: Average Sump Recharge Rates in Inches per Hour**

	1 <sup>st</sup> Quarter 2015	2 <sup>nd</sup> Quarter 2015	3 <sup>rd</sup> Quarter 2015
North Pond Sump	0.18	0.08	0.08
South Pond Sump	0.57	0.15	0.06

*Water Quality Monitoring*

Quarterly Pond samples were collected from the Pond surfaces on September 29, 2015. The quarterly Pond samples were submitted to Energy Labs in Casper, WY and analyzed for the required parameters (**Table 2**). Samples were collected from the Ponds on August 20, 2015 to compare with the LD Sump samples collected on August 18 and analyzed by the Lost Creek Lab to provide a comparison of water quality (**Table 2**). The results show a significant difference between water qualities of the sumps versus the Ponds.

**TABLE 2: Pond and LD Sump Water Quality**

Sample ID	Sample Date	Total Alkalinity (CaCO3)	Chloride	Cond., Specific @ 25°C	pH	Sodium	Sulfate	Total Dissolved Solids	Arsenic	Selenium	Uranium, Total	Radium-226
		mg/L	mg/L	µS/cm	s. u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L
N Pond Sump	8/18/2015	495	13,688	26,800	7.88	6,300	<800	N/A	N/A	N/A	98.5	N/A
S Pond Sump	8/18/2015	493	21,954	35,200	7.53	8,340	<800	N/A	N/A	N/A	174	N/A
N Pond	8/20/2015	383	97,200	89,700	8.08	27,300	1,200	--	--	--	283	--
S Pond	8/20/2015	1,240	42,400	55,000	8.09	15,500	870	--	--	--	1,140	--
<b>N Pond*</b>	<b>9/29/2015</b>	386	28,200	73,000	8.01	16,700	1,700	47,700	0.01	0.10	49.4	272
<b>S Pond*</b>	<b>9/29/2015</b>	741	18,700	51,400	7.71	11,000	1,670	32,200	0.03	0.14	205	293

\*Quarterly samples  
 N/A: Not applicable

*Pond Monitor Wells*

Pond monitor wells were measured in conjunction with the quarterly inspection. No water was detected in the wells as summarized on **Table 3**:

**TABLE 3: Pond Monitor Well Water Levels**

Well ID	Date	Water Level (ft-bmp)	Total Depth (ft-bmp)
MW-1	9/29/2015	ND	NM
MW-2	9/29/2015	ND	NM
MW-3	9/29/2015	ND	NM
MW-4	9/29/2015	ND	NM

*Pond Repairs or Maintenance*

Bird netting was installed over the ponds in June 2015 to prevent water fowl from entering the Ponds. This information had not been included in the previous quarter.

If you have any questions regarding this report or require additional information please contact me at the Casper office.

Sincerely,



Michael D. Gaither  
 Manager EHS and Regulatory Affairs  
 Ur-Energy USA, Inc

Attachments: **Attachment 1: Water Quality Data Tables**  
**Attachment 2: LD Sump Data**

Cc: Deputy Director, Decommissioning and Uranium Recovery Licensing Directorate  
 Division of Waste Management and Environmental Protection  
 Office of Federal and State Materials and Environmental Management Programs  
 U.S. Nuclear Regulatory Commission  
 Mail Stop T-8F5  
 11545 Rockville Pike, Two White Flint North  
 Rockville, MD 20852-2738  
 John Saxton, NRC (via e-mail)  
 Brian Wood, WDEQ-LQD, Lander (via e-mail)  
 Theresa Horne, Ur-Energy, Littleton (via e-mail)

**Attachment 1: MU1 Water Quality Data  
3rd Quarter 2015  
Lost Creek ISR Project SUA-1598**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
M-101	MU1 Ring	7/7/2015	--	120	172	-30	5.9	21	-72	679	965	-30	
M-101	MU1 Ring	7/22/2015	-15	117	172	-32	6.1	21	-71	669	965	-31	
M-101	MU1 Ring	8/5/2015	-14	123	172	-29	5.7	21	-73	667	965	-31	
M-101	MU1 Ring	8/19/2015	-14	127	172	-26	4.9	21	-77	672	965	-30	
M-101	MU1 Ring	9/1/2015	-13	124	172	-28	5.9	21	-72	665	965	-31	
M-101	MU1 Ring	9/23/2015	-22	115	172	-33	6.0	21	-72	639	965	-34	
M-102	MU1 Ring	7/7/2015	--	141	173	-18	6.1	20	-70	814	971	-16	
M-102	MU1 Ring	7/22/2015	-15	142	173	-18	6.3	20	-68	811	971	-16	
M-102	MU1 Ring	8/5/2015	-14	139	173	-20	5.9	20	-70	803	971	-17	
M-102	MU1 Ring	8/19/2015	-14	141	173	-19	5.0	20	-75	814	971	-16	
M-102	MU1 Ring	9/1/2015	-13	141	173	-18	6.1	20	-69	807	971	-17	
M-102	MU1 Ring	9/23/2015	-22	138	173	-20	6.4	20	-68	802	971	-17	
M-103A	MU1 Ring	7/8/2015	--	140	150	-7	5.8	21	-72	818	1171	-30	
M-103A	MU1 Ring	7/22/2015	-14	140	150	-7	6.6	21	-68	828	1171	-29	
M-103A	MU1 Ring	8/5/2015	-14	137	150	-9	6.1	21	-71	819	1171	-30	
M-103A	MU1 Ring	8/19/2015	-14	140	150	-7	5.3	21	-75	830	1171	-29	
M-103A	MU1 Ring	9/1/2015	-13	140	150	-7	6.2	21	-70	821	1171	-30	
M-103A	MU1 Ring	9/23/2015	-22	138	150	-8	7.2	21	-66	814	1171	-31	
M-104	MU1 Ring	7/8/2015	--	148	173	-14	6.6	22	-70	807	1162	-31	
M-104	MU1 Ring	7/22/2015	-14	145	173	-16	6.9	22	-69	813	1162	-30	
M-104	MU1 Ring	8/5/2015	-14	141	173	-19	6.5	22	-70	804	1162	-31	
M-104	MU1 Ring	8/19/2015	-14	141	173	-18	5.4	22	-75	819	1162	-30	
M-104	MU1 Ring	9/2/2015	-14	144	173	-17	7.0	22	-68	806	1162	-31	
M-104	MU1 Ring	9/23/2015	-21	146	173	-16	6.8	22	-69	803	1162	-31	
M-105	MU1 Ring	7/8/2015	--	133	148	-10	6.3	21	-70	731	1036	-29	
M-105	MU1 Ring	7/22/2015	-14	133	148	-10	6.7	21	-68	733	1036	-29	
M-105	MU1 Ring	8/5/2015	-14	130	148	-12	6.2	21	-71	729	1036	-30	
M-105	MU1 Ring	8/19/2015	-14	128	148	-13	5.4	21	-74	731	1036	-29	
M-105	MU1 Ring	9/2/2015	-14	131	148	-12	6.8	21	-68	730	1036	-30	
M-105	MU1 Ring	9/23/2015	-21	130	148	-12	6.4	21	-69	676	1036	-35	
M-106	MU1 Ring	7/8/2015	--	126	134	-6	6.2	21	-71	690	980	-30	
M-106	MU1 Ring	7/22/2015	-14	122	134	-9	6.6	21	-68	702	980	-28	
M-106	MU1 Ring	8/5/2015	-14	127	134	-5	6.1	21	-71	691	980	-29	
M-106	MU1 Ring	8/19/2015	-14	126	134	-6	5.4	21	-74	684	980	-30	
M-106	MU1 Ring	9/2/2015	-14	126	134	-6	6.7	21	-68	679	980	-31	
M-106	MU1 Ring	9/23/2015	-21	118	134	-12	5.8	21	-73	608	980	-38	
M-107	MU1 Ring	7/8/2015	--	125	138	-9	6.3	21	-70	675	1033	-35	
M-107	MU1 Ring	7/22/2015	-14	116	138	-16	6.7	21	-68	678	1033	-34	
M-107	MU1 Ring	8/5/2015	-14	124	138	-10	6.2	21	-71	679	1033	-34	
M-107	MU1 Ring	8/19/2015	-14	126	138	-9	5.9	21	-72	677	1033	-34	
M-107	MU1 Ring	9/2/2015	-14	123	138	-11	6.9	21	-67	680	1033	-34	
M-107	MU1 Ring	9/23/2015	-21	120	138	-13	6.0	21	-72	664	1033	-36	
M-108	MU1 Ring	7/8/2015	--	117	127	-8	6.1	21	-71	542	905	-40	
M-108	MU1 Ring	7/22/2015	-14	114	127	-10	6.8	21	-68	545	905	-40	
M-108	MU1 Ring	8/5/2015	-14	108	127	-15	6.5	21	-69	544	905	-40	
M-108	MU1 Ring	8/19/2015	-14	110	127	-14	5.8	21	-72	549	905	-39	
M-108	MU1 Ring	9/2/2015	-14	109	127	-14	6.6	21	-68	547	905	-40	
M-108	MU1 Ring	9/23/2015	-21	117	127	-8	6.1	21	-71	540	905	-40	
M-109	MU1 Ring	7/8/2015	--	111	161	-31	6.1	20	-69	553	703	-21	
M-109	MU1 Ring	7/22/2015	-14	110	161	-32	6.5	20	-68	554	703	-21	
M-109	MU1 Ring	8/5/2015	-14	110	161	-32	6.1	20	-70	562	703	-20	
M-109	MU1 Ring	8/19/2015	-14	108	161	-33	5.2	20	-74	558	703	-21	
M-109	MU1 Ring	9/2/2015	-14	109	161	-32	5.9	20	-71	557	703	-21	
M-109	MU1 Ring	9/23/2015	-21	110	161	-32	6.6	20	-67	549	703	-22	
M-110	MU1 Ring	7/8/2015	--	109	147	-26	6.9	21	-67	547	1022	-46	
M-110	MU1 Ring	7/22/2015	-14	106	147	-28	7.5	21	-65	568	1022	-44	
M-110	MU1 Ring	8/5/2015	-14	118	147	-20	6.8	21	-68	572	1022	-44	
M-110	MU1 Ring	8/19/2015	-14	111	147	-25	6.3	21	-70	572	1022	-44	
M-110	MU1 Ring	9/2/2015	-14	114	147	-23	6.7	21	-68	584	1022	-43	
M-110	MU1 Ring	9/23/2015	-21	118	147	-20	6.9	21	-67	541	1022	-47	
M-111	MU1 Ring	7/8/2015	--	119	146	-19	6.4	21	-70	550	897	-39	
M-111	MU1 Ring	7/22/2015	-14	112	146	-23	5.3	21	-75	552	897	-38	
M-111	MU1 Ring	8/5/2015	-14	116	146	-21	5.5	21	-74	552	897	-38	
M-111	MU1 Ring	8/19/2015	-14	112	146	-23	5.7	21	-73	542	897	-40	
M-111	MU1 Ring	9/2/2015	-14	115	146	-21	5.9	21	-72	545	897	-39	
M-111	MU1 Ring	9/23/2015	-21	115	146	-21	5.8	21	-72	551	897	-39	
M-112	MU1 Ring	7/8/2015	--	119	147	-19	6.5	20	-68	550	636	-14	
M-112	MU1 Ring	7/22/2015	-14	109	147	-26	5.5	20	-72	555	636	-13	
M-112	MU1 Ring	8/5/2015	-14	117	147	-20	5.6	20	-72	548	636	-14	
M-112	MU1 Ring	8/19/2015	-14	118	147	-20	5.5	20	-72	553	636	-13	
M-112	MU1 Ring	9/2/2015	-14	118	147	-20	5.9	20	-70	549	636	-14	
M-112	MU1 Ring	9/23/2015	-21	122	147	-17	5.6	20	-72	544	636	-15	
M-113	MU1 Ring	7/8/2015	--	113	203	-44	5.5	21	-74	513	631	-19	
M-113	MU1 Ring	7/22/2015	-14	110	203	-46	5.3	21	-75	514	631	-19	
M-113	MU1 Ring	8/5/2015	-14	102	203	-50	5.3	21	-75	507	631	-20	
M-113	MU1 Ring	8/19/2015	-14	103	203	-49	5.3	21	-75	514	631	-19	

**Attachment 1: MU1 Water Quality Data  
3rd Quarter 2015  
Lost Creek ISR Project SUA-1598**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
M-113	MU1 Ring	9/1/2015	-13	101	203	-50	5.6	21	-74	508	631	-20	
M-113	MU1 Ring	9/22/2015	-21	108	203	-47	5.6	21	-73	508	631	-20	
M-114A	MU1 Ring	7/8/2015	--	110	139	-21	5.1	20	-74	522	772	-32	
M-114A	MU1 Ring	7/22/2015	-14	125	139	-10	5.4	20	-73	527	772	-32	
M-114A	MU1 Ring	8/5/2015	-14	109	139	-22	5.3	20	-74	517	772	-33	
M-114A	MU1 Ring	8/19/2015	-14	108	139	-22	5.2	20	-74	527	772	-32	
M-114A	MU1 Ring	9/1/2015	-13	111	139	-20	5.3	20	-74	519	772	-33	
M-114A	MU1 Ring	9/22/2015	-21	112	139	-19	5.8	20	-71	511	772	-34	
M-115A	MU1 Ring	7/8/2015	--	105	126	-17	5.1	20	-74	498	726	-31	
M-115A	MU1 Ring	7/22/2015	-14	101	126	-20	5.2	20	-74	499	726	-31	
M-115A	MU1 Ring	8/4/2015	-13	107	126	-15	5.4	20	-73	493	726	-32	
M-115A	MU1 Ring	8/19/2015	-15	111	126	-12	5.1	20	-75	498	726	-31	
M-115A	MU1 Ring	9/1/2015	-13	109	126	-13	5.3	20	-74	495	726	-32	
M-115A	MU1 Ring	9/22/2015	-21	106	126	-16	5.9	20	-70	475	726	-35	
M-116A	MU1 Ring	7/8/2015	--	113	134	-16	5.1	20	-74	494	679	-27	
M-116A	MU1 Ring	7/22/2015	-14	108	134	-19	5.3	20	-73	495	679	-27	
M-116A	MU1 Ring	8/4/2015	-13	104	134	-22	5.3	20	-73	491	679	-28	
M-116A	MU1 Ring	8/19/2015	-15	104	134	-22	5.2	20	-74	490	679	-28	
M-116A	MU1 Ring	9/1/2015	-13	107	134	-20	5.5	20	-73	492	679	-28	
M-116A	MU1 Ring	9/22/2015	-21	110	134	-18	5.7	20	-71	481	679	-29	
M-117	MU1 Ring	7/8/2015	--	111	139	-20	5.1	20	-74	484	711	-32	
M-117	MU1 Ring	7/22/2015	-14	109	139	-21	5.4	20	-73	487	711	-32	
M-117	MU1 Ring	8/4/2015	-13	110	139	-21	5.3	20	-73	482	711	-32	
M-117	MU1 Ring	8/19/2015	-15	107	139	-23	5.2	20	-74	482	711	-32	
M-117	MU1 Ring	9/1/2015	-13	111	139	-20	5.2	20	-74	479	711	-33	
M-117	MU1 Ring	9/22/2015	-21	112	139	-20	5.5	20	-73	469	711	-34	
M-118	MU1 Ring	7/7/2015	--	111	108	3	5.7	21	-73	504	762	-34	
M-118	MU1 Ring	7/21/2015	-14	108	108	0	5.7	21	-73	501	762	-34	
M-118	MU1 Ring	8/4/2015	-14	103	108	-4	5.3	21	-75	501	762	-34	
M-118	MU1 Ring	8/18/2015	-14	105	108	-2	5.3	21	-75	492	762	-35	
M-118	MU1 Ring	9/1/2015	-14	104	108	-3	5.1	21	-76	493	762	-35	
M-118	MU1 Ring	9/22/2015	-21	108	108	0	5.6	21	-74	483	762	-37	
M-119	MU1 Ring	7/7/2015	--	133	128	4	6.0	20	-70	464	622	-25	
M-119	MU1 Ring	7/21/2015	-14	120	128	-6	6.0	20	-70	473	622	-24	
M-119	MU1 Ring	8/4/2015	-14	114	128	-11	5.6	20	-72	476	622	-23	
M-119	MU1 Ring	8/18/2015	-14	115	128	-10	5.5	20	-73	477	622	-23	
M-119	MU1 Ring	9/1/2015	-14	118	128	-7	5.3	20	-73	477	622	-23	
M-119	MU1 Ring	9/22/2015	-21	120	128	-6	5.6	20	-72	470	622	-24	
M-120A	MU1 Ring	7/7/2015	--	114	142	-20	6.0	20	-70	480	715	-33	
M-120A	MU1 Ring	7/21/2015	-14	107	142	-25	6.3	20	-68	485	715	-32	
M-120A	MU1 Ring	8/4/2015	-14	113	142	-20	5.8	20	-71	488	715	-32	
M-120A	MU1 Ring	8/18/2015	-14	107	142	-25	5.6	20	-72	486	715	-32	
M-120A	MU1 Ring	9/1/2015	-14	108	142	-24	5.6	20	-72	485	715	-32	
M-120A	MU1 Ring	9/23/2015	-22	112	142	-21	5.9	20	-70	485	715	-32	
M-121	MU1 Ring	7/7/2015	--	115	140	-18	5.9	20	-70	513	755	-32	
M-121	MU1 Ring	7/21/2015	-14	113	140	-20	6.0	20	-70	517	755	-31	
M-121	MU1 Ring	8/4/2015	-14	112	140	-20	5.7	20	-71	511	755	-32	
M-121	MU1 Ring	8/18/2015	-14	117	140	-16	5.3	20	-73	513	755	-32	
M-121	MU1 Ring	9/1/2015	-14	116	140	-17	5.2	20	-74	509	755	-33	
M-121	MU1 Ring	9/23/2015	-22	115	140	-18	6.1	20	-69	506	755	-33	
M-122	MU1 Ring	7/7/2015	--	120	142	-15	5.9	20	-71	498	593	-16	
M-122	MU1 Ring	7/21/2015	-14	114	142	-20	6.0	20	-70	500	593	-16	
M-122	MU1 Ring	8/4/2015	-14	118	142	-17	5.4	20	-73	502	593	-15	
M-122	MU1 Ring	8/18/2015	-14	116	142	-18	5.2	20	-74	499	593	-16	
M-122	MU1 Ring	9/1/2015	-14	119	142	-16	5.2	20	-74	504	593	-15	
M-122	MU1 Ring	9/23/2015	-22	116	142	-18	6.3	20	-68	494	593	-17	
M-123	MU1 Ring	7/7/2015	--	122	131	-7	5.9	20	-71	493	718	-31	
M-123	MU1 Ring	7/21/2015	-14	110	131	-16	5.8	20	-71	494	718	-31	
M-123	MU1 Ring	8/5/2015	-15	120	131	-8	5.3	20	-73	494	718	-31	
M-123	MU1 Ring	8/18/2015	-13	112	131	-15	5.3	20	-73	492	718	-31	

**Attachment 1: MU1 Water Quality Data  
3rd Quarter 2015  
Lost Creek ISR Project SUA-1598**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
M-123	MU1 Ring	9/1/2015	-14	115	131	-12	5.1	20	-74	489	718	-32	
M-123	MU1 Ring	9/23/2015	-22	121	131	-8	5.8	20	-71	487	718	-32	
M-124	MU1 Ring	7/7/2015	--	118	123	-4	5.0	20	-75	466	536	-13	
M-124	MU1 Ring	7/21/2015	-14	113	123	-8	5.9	20	-71	467	536	-13	
M-124	MU1 Ring	8/5/2015	-15	111	123	-10	5.0	20	-75	468	536	-13	
M-124	MU1 Ring	8/18/2015	-13	113	123	-8	5.1	20	-75	464	536	-13	
M-124	MU1 Ring	9/1/2015	-14	111	123	-10	5.1	20	-74	461	536	-14	
M-124	MU1 Ring	9/23/2015	-22	114	123	-8	5.3	20	-74	458	536	-15	
M-125	MU1 Ring	7/7/2015	--	117	135	-14	5.9	21	-72	543	657	-17	
M-125	MU1 Ring	7/21/2015	-14	114	135	-15	6.7	21	-68	540	657	-18	
M-125	MU1 Ring	8/5/2015	-15	109	135	-19	6.0	21	-71	547	657	-17	
M-125	MU1 Ring	8/18/2015	-13	115	135	-15	6.0	21	-72	542	657	-17	
M-125	MU1 Ring	9/1/2015	-14	116	135	-14	5.9	21	-72	542	657	-17	
M-125	MU1 Ring	9/23/2015	-22	116	135	-14	6.0	21	-71	538	657	-18	
M-126	MU1 Ring	7/7/2015	--	111	194	-43	6.2	21	-70	545	682	-20	
M-126	MU1 Ring	7/21/2015	-14	106	194	-46	7.0	21	-66	541	682	-21	
M-126	MU1 Ring	8/5/2015	-15	121	194	-38	6.2	21	-71	532	682	-22	
M-126	MU1 Ring	8/19/2015	-14	114	194	-41	5.9	21	-72	525	682	-23	
M-126	MU1 Ring	9/1/2015	-13	106	194	-46	5.6	21	-73	531	682	-22	
M-126	MU1 Ring	9/23/2015	-22	108	194	-45	6.0	21	-71	519	682	-24	
M-127	MU1 Ring	7/7/2015	--	118	149	-21	6.1	21	-71	548	792	-31	
M-127	MU1 Ring	7/21/2015	-14	112	149	-25	6.8	21	-68	539	792	-32	
M-127	MU1 Ring	8/5/2015	-15	112	149	-25	6.0	21	-71	538	792	-32	
M-127	MU1 Ring	8/19/2015	-14	110	149	-26	5.8	21	-73	536	792	-32	
M-127	MU1 Ring	9/1/2015	-13	116	149	-22	5.7	21	-73	534	792	-33	
M-127	MU1 Ring	9/23/2015	-22	113	149	-24	6.6	21	-68	524	792	-34	
M-128	MU1 Ring	7/7/2015	--	121	122	-1	5.8	21	-72	557	802	-31	
M-128	MU1 Ring	7/21/2015	-14	108	122	-12	5.8	21	-72	554	802	-31	
M-128	MU1 Ring	8/5/2015	-15	111	122	-9	5.6	21	-74	552	802	-31	
M-128	MU1 Ring	8/19/2015	-14	113	122	-8	5.9	21	-72	556	802	-31	
M-128	MU1 Ring	9/1/2015	-13	118	122	-4	5.3	21	-75	554	802	-31	
M-128	MU1 Ring	9/23/2015	-22	115	122	-6	6.5	21	-69	548	802	-32	
MO-101	MU1 Overlying	7/8/2015	--	107	136	-21	7.4	23	-68	640	824	-22	
MO-101	MU1 Overlying	7/23/2015	-15	106	136	-22	8.1	23	-65	635	824	-23	
MO-101	MU1 Overlying	8/6/2015	-14	112	136	-18	7.1	23	-69	633	824	-23	
MO-101	MU1 Overlying	8/20/2015	-14	107	136	-21	7.5	23	-68	626	824	-24	
MO-101	MU1 Overlying	9/2/2015	-13	115	136	-15	7.9	23	-66	635	824	-23	
MO-101	MU1 Overlying	9/24/2015	-22	110	136	-19	9.5	23	-59	612	824	-26	
MO-102	MU1 Overlying	7/8/2015	--	111	125	-11	6.6	21	-69	590	670	-12	
MO-102	MU1 Overlying	7/23/2015	-15	102	125	-19	7.1	21	-66	585	670	-13	
MO-102	MU1 Overlying	8/6/2015	-14	102	125	-19	6.4	21	-69	583	670	-13	
MO-102	MU1 Overlying	8/20/2015	-14	106	125	-15	6.7	21	-68	583	670	-13	
MO-102	MU1 Overlying	9/2/2015	-13	104	125	-16	6.7	21	-68	586	670	-13	
MO-102	MU1 Overlying	9/24/2015	-22	103	125	-17	7.2	21	-66	569	670	-15	
MO-103	MU1 Overlying	7/9/2015	--	115	130	-11	9.3	21	-56	660	849	-22	
MO-103	MU1 Overlying	7/23/2015	-14	117	130	-10	8.6	21	-59	675	849	-20	
MO-103	MU1 Overlying	8/6/2015	-14	113	130	-13	8.3	21	-60	670	849	-21	
MO-103	MU1 Overlying	8/20/2015	-14	115	130	-12	8.6	21	-59	660	849	-22	
MO-103	MU1 Overlying	9/2/2015	-13	113	130	-13	8.7	21	-58	655	849	-23	
MO-103	MU1 Overlying	9/24/2015	-22	111	130	-15	8.7	21	-59	642	849	-24	
MO-104	MU1 Overlying	7/9/2015	--	122	160	-24	9.2	24	-62	583	714	-18	
MO-104	MU1 Overlying	7/23/2015	-14	114	160	-29	9.1	24	-62	582	714	-19	
MO-104	MU1 Overlying	8/6/2015	-14	120	160	-25	8.2	24	-66	591	714	-17	
MO-104	MU1 Overlying	8/20/2015	-14	115	160	-28	8.7	24	-64	590	714	-17	
MO-104	MU1 Overlying	9/2/2015	-13	117	160	-27	8.7	24	-64	601	714	-16	
MO-104	MU1 Overlying	9/24/2015	-22	118	160	-26	8.5	24	-65	591	714	-17	
MO-105	MU1 Overlying	7/9/2015	--	111	128	-13	6.2	20	-69	473	669	-29	
MO-105	MU1 Overlying	7/23/2015	-14	100	128	-22	6.0	20	-70	468	669	-30	
MO-105	MU1 Overlying	8/6/2015	-14	104	128	-18	5.5	20	-73	478	669	-29	
MO-105	MU1 Overlying	8/20/2015	-14	105	128	-18	5.4	20	-73	475	669	-29	
MO-105	MU1 Overlying	9/2/2015	-13	104	128	-19	5.8	20	-71	484	669	-28	
MO-105	MU1 Overlying	9/24/2015	-22	107	128	-17	6.0	20	-70	469	669	-30	
MO-106	MU1 Overlying	7/9/2015	--	94	143	-34	6.5	20	-67	454	626	-28	
MO-106	MU1 Overlying	7/23/2015	-14	100	143	-30	5.8	20	-71	448	626	-28	
MO-106	MU1 Overlying	8/6/2015	-14	93	143	-35	5.8	20	-71	451	626	-28	
MO-106	MU1 Overlying	8/20/2015	-14	95	143	-33	6.0	20	-70	452	626	-28	



**Attachment 1: MU1 Water Quality Data  
3rd Quarter 2015  
Lost Creek ISR Project SUA-1598**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
MO-106	MU1 Overlying	9/2/2015	-13	105	143	-27	5.8	20	-71	461	626	-26	
MO-106	MU1 Overlying	9/24/2015	-22	90	143	-37	5.2	20	-74	430	626	-31	
MO-107	MU1 Overlying	7/9/2015	--	106	110	-3	6.1	20	-69	457	502	-9	
MO-107	MU1 Overlying	7/23/2015	-14	97	110	-12	5.6	20	-72	457	502	-9	
MO-107	MU1 Overlying	8/6/2015	-14	105	110	-5	5.6	20	-72	459	502	-8	
MO-107	MU1 Overlying	8/21/2015	-15	106	110	-3	5.7	20	-71	454	502	-9	
MO-107	MU1 Overlying	9/2/2015	-12	104	110	-5	5.6	20	-72	462	502	-8	
MO-107	MU1 Overlying	9/24/2015	-22	96	110	-13	6.0	20	-70	449	502	-10	
MO-108	MU1 Overlying	7/11/2015	--	103	118	-13	6.9	20	-65	489	513	-5	
MO-108	MU1 Overlying	7/23/2015	-12	102	118	-13	6.7	20	-67	489	513	-5	
MO-108	MU1 Overlying	8/6/2015	-14	105	118	-11	6.7	20	-67	493	513	-4	
MO-108	MU1 Overlying	8/21/2015	-15	94	118	-20	7.2	20	-64	485	513	-5	
MO-108	MU1 Overlying	9/3/2015	-13	105	118	-11	7.9	20	-60	492	513	-4	
MO-108	MU1 Overlying	9/24/2015	-21	101	118	-14	7.7	20	-62	485	513	-5	
MO-109	MU1 Overlying	7/11/2015	--	102	120	-15	6.4	21	-69	488	567	-14	
MO-109	MU1 Overlying	7/23/2015	-12	108	120	-10	6.1	21	-71	487	567	-14	
MO-109	MU1 Overlying	8/6/2015	-14	102	120	-15	6.2	21	-71	491	567	-13	
MO-109	MU1 Overlying	8/21/2015	-15	107	120	-10	6.9	21	-67	493	567	-13	
MO-109	MU1 Overlying	9/3/2015	-13	106	120	-12	7.6	21	-64	495	567	-13	
MO-109	MU1 Overlying	9/25/2015	-22	110	120	-8	7.8	21	-63	488	567	-14	
MO-110	MU1 Overlying	7/11/2015	--	101	128	-21	5.8	23	-75	425	533	-20	
MO-110	MU1 Overlying	7/24/2015	-13	93	128	-27	5.5	23	-76	435	533	-18	
MO-110	MU1 Overlying	8/6/2015	-13	99	128	-22	5.3	23	-77	429	533	-19	
MO-110	MU1 Overlying	8/21/2015	-15	102	128	-20	5.8	23	-75	435	533	-18	
MO-110	MU1 Overlying	9/3/2015	-13	95	128	-26	6.3	23	-73	430	533	-19	
MO-110	MU1 Overlying	9/25/2015	-22	97	128	-25	5.0	23	-78	422	533	-21	
MO-111	MU1 Overlying	7/11/2015	--	101	115	-12	6.0	20	-70	430	639	-33	
MO-111	MU1 Overlying	7/24/2015	-13	108	115	-6	5.5	20	-72	430	639	-33	
MO-111	MU1 Overlying	8/7/2015	-14	103	115	-11	5.0	20	-75	420	639	-34	
MO-111	MU1 Overlying	8/21/2015	-14	96	115	-16	5.8	20	-71	425	639	-34	
MO-111	MU1 Overlying	9/3/2015	-13	104	115	-10	6.6	20	-67	424	639	-34	
MO-111	MU1 Overlying	9/25/2015	-22	100	115	-13	5.7	20	-71	420	639	-34	
MO-112	MU1 Overlying	7/11/2015	--	96	252	-62	6.5	22	-71	393	541	-27	
MO-112	MU1 Overlying	7/24/2015	-13	93	252	-63	5.8	22	-74	395	541	-27	
MO-112	MU1 Overlying	8/7/2015	-14	98	252	-61	6.3	22	-71	399	541	-26	
MO-112	MU1 Overlying	8/21/2015	-14	93	252	-63	5.6	22	-75	400	541	-26	
MO-112	MU1 Overlying	9/3/2015	-13	97	252	-61	6.6	22	-70	396	541	-27	
MO-112	MU1 Overlying	9/25/2015	-22	96	252	-62	6.7	22	-70	396	541	-27	
MO-113	MU1 Overlying	7/11/2015	--	106	121	-12	6.3	21	-70	449	484	-7	
MO-113	MU1 Overlying	7/24/2015	-13	103	121	-15	5.7	21	-73	443	484	-8	
MO-113	MU1 Overlying	8/7/2015	-14	101	121	-17	6.2	21	-70	446	484	-8	
MO-113	MU1 Overlying	8/21/2015	-14	104	121	-14	5.5	21	-74	445	484	-8	
MO-113	MU1 Overlying	9/3/2015	-13	100	121	-17	6.6	21	-68	446	484	-8	
MO-113	MU1 Overlying	9/25/2015	-22	126	121	4	5.9	21	-72	439	484	-9	
MU-101	MU1 Underlying	7/8/2015	--	116	157	-26	6.5	20	-67	539	653	-17	
MU-101	MU1 Underlying	7/23/2015	-15	113	157	-28	5.9	20	-70	541	653	-17	
MU-101	MU1 Underlying	8/6/2015	-14	115	157	-27	6.5	20	-68	539	653	-17	
MU-101	MU1 Underlying	8/20/2015	-14	115	157	-26	6.4	20	-68	536	653	-18	
MU-101	MU1 Underlying	9/2/2015	-13	109	157	-30	6.6	20	-67	541	653	-17	
MU-101	MU1 Underlying	9/24/2015	-22	116	157	-26	5.0	20	-75	531	653	-19	
MU-102	MU1 Underlying	7/8/2015	--	104	119	-13	5.3	19	-72	429	507	-15	
MU-102	MU1 Underlying	7/23/2015	-15	111	119	-7	5.1	19	-73	428	507	-16	
MU-102	MU1 Underlying	8/6/2015	-14	103	119	-13	5.1	19	-73	425	507	-16	
MU-102	MU1 Underlying	8/20/2015	-14	100	119	-16	5.0	19	-74	429	507	-15	
MU-102	MU1 Underlying	9/2/2015	-13	108	119	-9	5.4	19	-72	430	507	-15	
MU-102	MU1 Underlying	9/24/2015	-22	104	119	-13	4.6	19	-76	419	507	-17	
MU-103	MU1 Underlying	7/9/2015	--	107	213	-50	5.6	20	-72	421	560	-25	
MU-103	MU1 Underlying	7/23/2015	-14	109	213	-49	5.7	20	-72	418	560	-25	
MU-103	MU1 Underlying	8/6/2015	-14	104	213	-51	5.0	20	-75	416	560	-26	
MU-103	MU1 Underlying	8/20/2015	-14	106	213	-50	5.0	20	-75	419	560	-25	
MU-103	MU1 Underlying	9/2/2015	-13	108	213	-49	5.3	20	-74	418	560	-25	
MU-103	MU1 Underlying	9/24/2015	-22	102	213	-52	4.6	20	-77	409	560	-27	
MU-104	MU1 Underlying	7/9/2015	--	174	159	9	48.9	21	133	783	572	37	
MU-104	MU1 Underlying	7/13/2015	-4	221	159	39	56.2	21	168	934	572	63	Excursion confirmed
MU-104	MU1 Underlying	7/21/2015	-8	116	159	-27	9.0	21	-57	486	572	-15	
MU-104	MU1 Underlying	7/28/2015	-7	108	159	-32	5.8	21	-72	428	572	-25	

**Attachment 1: MU1 Water Quality Data**  
**3rd Quarter 2015**  
**Lost Creek ISR Project SUA-1598**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
MU-104	MU1 Underlying	8/4/2015	-7	103	159	-35	7.0	21	-67	448	572	-22	Excursion corrected
MU-104	MU1 Underlying	8/20/2015	-16	133	159	-16	22.1	21	5	592	572	3	Excursion suspect
MU-104	MU1 Underlying	8/26/2015	-6	320	159	101	102.8	21	389	1204	572	110	Excursion confirmed
MU-104	MU1 Underlying	8/31/2015	-5	112	159	-30	8.4	21	-60	447	572	-22	
MU-104	MU1 Underlying	9/9/2015	-9	101	159	-37	5.3	21	-75	398	572	-30	
MU-104	MU1 Underlying	9/14/2015	-5	105	159	-34	5.3	21	-75	398	572	-30	Excursion corrected
MU-104	MU1 Underlying	9/24/2015	-10	104	159	-35	5.7	21	-73	397	572	-31	
MU-105	MU1 Underlying	7/9/2015	--	101	124	-18	5.9	19	-69	433	562	-23	
MU-105	MU1 Underlying	7/23/2015	-14	98	124	-21	4.9	19	-74	435	562	-23	
MU-105	MU1 Underlying	8/6/2015	-14	109	124	-12	5.2	19	-72	434	562	-23	
MU-105	MU1 Underlying	8/20/2015	-14	101	124	-19	5.1	19	-73	435	562	-23	
MU-105	MU1 Underlying	9/2/2015	-13	102	124	-18	5.5	19	-71	437	562	-22	
MU-105	MU1 Underlying	9/24/2015	-22	106	124	-15	5.7	19	-70	428	562	-24	
MU-106	MU1 Underlying	7/9/2015	--	108	137	-21	6.2	20	-69	438	522	-16	
MU-106	MU1 Underlying	7/23/2015	-14	109	137	-20	5.4	20	-73	440	522	-16	
MU-106	MU1 Underlying	8/6/2015	-14	111	137	-19	5.6	20	-72	444	522	-15	
MU-106	MU1 Underlying	8/20/2015	-14	103	137	-25	5.3	20	-74	447	522	-14	
MU-106	MU1 Underlying	9/2/2015	-13	107	137	-22	5.7	20	-71	448	522	-14	
MU-106	MU1 Underlying	9/24/2015	-22	102	137	-26	5.5	20	-73	448	522	-14	
MU-107	MU1 Underlying	7/9/2015	--	107	136	-22	5.8	20	-71	452	556	-19	
MU-107	MU1 Underlying	7/23/2015	-14	107	136	-22	5.2	20	-74	456	556	-18	
MU-107	MU1 Underlying	8/6/2015	-14	108	136	-20	4.9	20	-75	461	556	-17	
MU-107	MU1 Underlying	8/21/2015	-15	109	136	-20	4.9	20	-76	460	556	-17	
MU-107	MU1 Underlying	9/2/2015	-12	109	136	-20	5.5	20	-73	469	556	-16	
MU-107	MU1 Underlying	9/24/2015	-22	106	136	-22	4.7	20	-76	461	556	-17	
KPW-2	MU1 Underlying	7/11/2015	--	100	136	-26	5.8	21	-72	481	615	-22	
KPW-2	MU1 Underlying	7/23/2015	-12	98	136	-28	5.3	21	-75	477	615	-22	
KPW-2	MU1 Underlying	8/6/2015	-14	103	136	-24	5.2	21	-75	482	615	-22	
KPW-2	MU1 Underlying	8/21/2015	-15	98	136	-28	5.1	21	-76	476	615	-23	
KPW-2	MU1 Underlying	9/3/2015	-13	107	136	-21	6.2	21	-70	474	615	-23	
KPW-2	MU1 Underlying	9/24/2015	-21	108	136	-21	5.1	21	-75	473	615	-23	
MU-109	MU1 Underlying	7/7/2015	--	151	196	-23	23.8	23	3	667	525	27	Excursion continued from previous quarter
MU-109	MU1 Underlying	7/11/2015	-4	155	196	-21	29.2	23	27	710	525	35	
MU-109	MU1 Underlying	7/14/2015	-3	166	196	-15	33.5	23	45	789	525	50	
MU-109	MU1 Underlying	7/21/2015	-7	165	196	-16	24.5	23	7	697	525	33	
MU-109	MU1 Underlying	7/28/2015	-7	159	196	-19	28.1	23	22	702	525	34	
MU-109	MU1 Underlying	8/4/2015	-7	157	196	-20	26.7	23	16	702	525	34	
MU-109	MU1 Underlying	8/12/2015	-8	128	196	-35	15.7	23	-32	598	525	14	
MU-109	MU1 Underlying	8/18/2015	-6	144	196	-27	19.6	23	-15	637	525	21	
MU-109	MU1 Underlying	8/26/2015	-8	141	196	-28	17.9	23	-22	620	525	18	
MU-109	MU1 Underlying	8/31/2015	-5	151	196	-23	21.2	23	-8	671	525	28	
MU-109	MU1 Underlying	9/9/2015	-9	145	196	-26	18.9	23	-18	624	525	19	
MU-109	MU1 Underlying	9/14/2015	-5	137	196	-30	16.6	23	-28	601	525	14	
MU-109	MU1 Underlying	9/22/2015	-8	135	196	-31	19.6	23	-15	581	525	11	Excursion corrected
MU-110	MU1 Underlying	7/11/2015	--	79	144	-45	8.5	24	-65	450	596	-24	
MU-110	MU1 Underlying	7/24/2015	-13	95	144	-34	8.9	24	-63	454	596	-24	
MU-110	MU1 Underlying	8/6/2015	-13	96	144	-34	7.5	24	-69	458	596	-23	
MU-110	MU1 Underlying	8/21/2015	-15	93	144	-35	8.4	24	-65	451	596	-24	
MU-110	MU1 Underlying	9/3/2015	-13	91	144	-37	9.2	24	-62	452	596	-24	
MU-110	MU1 Underlying	9/25/2015	-22	86	144	-40	8.8	24	-63	448	596	-25	
MU-111	MU1 Underlying	7/11/2015	--	94	188	-50	6.7	22	-69	495	652	-24	
MU-111	MU1 Underlying	7/29/2015	-18	100	188	-47	6.3	22	-72	501	652	-23	
MU-111	MU1 Underlying	8/7/2015	-9	100	188	-47	6.5	22	-71	503	652	-23	
MU-111	MU1 Underlying	8/21/2015	-14	102	188	-46	5.5	22	-75	497	652	-24	
MU-111	MU1 Underlying	9/3/2015	-13	101	188	-46	5.7	22	-74	496	652	-24	
MU-111	MU1 Underlying	9/25/2015	-22	92	188	-51	7.8	22	-65	492	652	-25	
MU-112	MU1 Underlying	7/11/2015	--	92	224	-59	5.4	24	-77	431	483	-11	
MU-112	MU1 Underlying	7/24/2015	-13	96	224	-57	5.1	24	-79	439	483	-9	
MU-112	MU1 Underlying	8/7/2015	-14	94	224	-58	5.8	24	-76	439	483	-9	
MU-112	MU1 Underlying	8/21/2015	-14	93	224	-59	5.1	24	-79	436	483	-10	
MU-112	MU1 Underlying	9/3/2015	-13	93	224	-59	5.0	24	-79	437	483	-10	
MU-112	MU1 Underlying	9/25/2015	-22	95	224	-57	5.5	24	-77	430	483	-11	
MU-113	MU1 Underlying	7/11/2015	--	90	140	-36	5.3	25	-79	464	590	-21	
MU-113	MU1 Underlying	7/29/2015	-18	90	140	-35	5.2	25	-79	471	590	-20	
MU-113	MU1 Underlying	8/7/2015	-9	95	140	-32	5.8	25	-77	467	590	-21	

**Attachment 1: MU1 Water Quality Data**  
**3rd Quarter 2015**  
**Lost Creek ISR Project SUA-1598**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
MU-113	MU1 Underlying	8/21/2015	-14	95	140	-32	5.1	25	-80	468	590	-21	
MU-113	MU1 Underlying	9/3/2015	-13	97	140	-30	5.0	25	-80	468	590	-21	
MU-113	MU1 Underlying	9/25/2015	-22	88	140	-37	5.3	25	-79	458	590	-22	
LC29M	Regional DE	8/14/2015	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	
MB-10	Regional DE	8/17/2015	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	

UCL : Upper Control Limit

\* UCL calculated on a per-well basis

*Italics* : Indicates warning when result is > UCL but < 120% of UCL

**Bold Italics** : Indicates value > 120% of UCL

**Attachment 2: LD Sump Measurements**  
**3rd Quarter 2015**  
**Lost Creek ISR Project SUA-1598**

Date	North LD Sump Water Depth (inches)	N Sump Totalizer Reading (gal)	Net Volume Pumped (gal)	South LD Sump Water Depth (inches)	S Sump Totalizer Reading (gal)	Net Volume Pumped (gal)	Precip* (inches)	Comments
7/1/2015	3.5	--	--	4.5	--	--	--	
7/2/2015	4.5	207.6	--	5.8	336.4	--	0.08	
7/3/2015	2.5	--	--	1.5	--	--	--	
7/4/2015	5.0	--	--	4.0	--	--	0.03	
7/5/2015	5.5	--	--	5.0	--	--	0.28	
7/6/2015	6.8	216	8.4	6.5	346.2	9.8	0.23	
7/7/2015	3.5	216	0	2.0	346.2	0	0.19	
7/8/2015	3.5	222.4	6.4	3.0	347.8	1.6	0.08	
7/9/2015	2.5	224.1	1.7	3.0	349.1	1.3	--	
7/10/2015	2.0	--	--	1.0	--	--	--	
7/11/2015	4.0	228.8	4.7	2.3	352.1	3	--	
7/12/2015	3.5	--	--	2.0	--	--	--	
7/13/2015	4.5	229	0.2	2.5	352.2	0.1	--	
7/14/2015	2.8	237.8	8.8	5.0	359.9	7.7	--	
7/15/2015	3.0	240	2.2	3.3	362.2	2.3	--	
7/16/2015	3.0	242	2	3.0	362.2	0	--	
7/17/2015	3.8	245.2	3.2	3.3	365.9	3.7	--	
7/18/2015	2.0	--	--	3.0	--	--	0.02	
7/19/2015	2.0	245.3	0.1	2.0	365.9	0	--	
7/20/2015	4.5	249.6	4.3	4.5	369.2	3.3	--	
7/21/2015	4.0	253.3	3.7	2.8	370.9	1.7	--	
7/22/2015	5.0	257.9	4.6	3.8	376	5.1	--	
7/23/2015	3.5	260.8	2.9	4.5	379.5	3.5	--	
7/24/2015	2.5	263.2	2.4	2.5	381.1	1.6	--	
7/25/2015	3.0	--	--	1.0	--	--	--	
7/26/2015	3.0	--	--	1.0	--	--	--	
7/27/2015	7.0	271.7	8.5	9.0	391.4	10.3	--	
7/28/2015	3.0	273.9	2.2	4.0	--	--	--	
7/29/2015	2.5	275	1.1	3.0	394.8	3.4	--	
7/30/2015	2.5	275.9	0.9	2.0	394.8	0	--	
7/31/2015	2.0	--	--	1.0	--	--	--	
8/1/2015	5.5	--	--	3.0	--	--	--	
8/2/2015	6.0	--	--	5.0	--	--	--	
8/3/2015	9.3	288.6	12.7	9.3	406.4	11.6	0.22	
8/4/2015	3.5	291.4	2.8	3.5	408.6	2.2	0.01	
8/5/2015	3.5	293.1	1.7	3.0	410	1.4	--	
8/6/2015	3.5	293.5	0.4	2.8	411.3	1.3	--	
8/7/2015	3.5	293.7	0.2	3.0	412.8	1.5	0.05	
8/8/2015	3.0	--	--	1.0	--	--	--	
8/9/2015	2.0	--	--	1.0	--	--	--	
8/10/2015	4.3	300.9	7.2	3.0	414	1.2	--	
8/11/2015	4.5	305.2	4.3	3.0	--	--	--	
8/12/2015	4.5	308.4	3.2	4.3	418.4	4.4	--	
8/13/2015	4.3	311.5	3.1	5.5	423.6	5.2	--	
8/14/2015	5.3	316	4.5	5.8	432.3	8.7	--	
8/15/2015	4.3	--	--	5.5	--	--	--	
8/16/2015	5.0	--	--	9.5	--	--	0.02	
8/17/2015	7.0	323.2	7.2	11.5	447.7	15.4	--	
8/18/2015	3.5	325.5	2.3	3.5	449.5	1.8	--	Sump samples collected

**Attachment 2: LD Sump Measurements**  
**3rd Quarter 2015**  
**Lost Creek ISR Project SUA-1598**

Date	North LD Sump Water Depth (inches)	N Sump Totalizer Reading (gal)	Net Volume Pumped (gal)	South LD Sump Water Depth (inches)	S Sump Totalizer Reading (gal)	Net Volume Pumped (gal)	Precip* (inches)	Comments
8/19/2015	3.0	326.5	1	3.0	450.5	1	--	
8/20/2015	2.5	327.4	0.9	2.5	451.6	1.1	--	
8/21/2015	3.5	329	1.6	2.8	452.4	0.8	--	
8/22/2015	2.5	--	--	1.0	--	--	--	
8/23/2015	2.0	--	--	1.5	--	--	--	
8/24/2015	5.0	333.1	4.1	2.8	452.8	0.4	--	
8/25/2015	4.8	337.2	4.1	2.5	453.1	0.3	--	
8/26/2015	5.5	341.8	4.6	2.5	453.2	0.1	0.04	
8/27/2015	--	--	--	--	--	--	0.14	Missed inspection
8/28/2015	4.5	345.5	3.7	2.5	453.3	0.1	--	
8/29/2015	1.5	--	--	1.5	--	--	--	
8/30/2015	1.5	--	--	1.5	--	--	--	
8/31/2015	4.0	350.2	4.7	5.8	460.3	7	--	
9/1/2015	4.0	352.3	2.1	3.0	461.7	1.4	--	
9/2/2015	4.0	355.2	2.9	2.0	461.8	0.1	--	
9/3/2015	5.0	358.8	3.6	3.0	462.9	1.1	--	
9/4/2015	3.5	--	--	2.5	--	--	--	
9/5/2015	4.0	--	--	1.0	--	--	--	
9/6/2015	5.5	--	--	1.0	--	--	--	
9/7/2015	4.5	--	--	1.0	--	--	--	
9/8/2015	4.5	364.7	5.9	2.0	463	0.1	--	
9/9/2015	3.0	365.8	1.1	3.0	465.3	2.3	--	
9/10/2015	--	--	--	--	--	--	--	Missed inspection
9/11/2015	--	--	--	--	--	--	--	Missed inspection
9/12/2015	4.0	--	--	1.0	--	--	--	
9/13/2015	5.0	--	--	1.0	--	--	--	
9/14/2015	5.5	365.9	0.1	2.0	465.3	0	--	
9/15/2015	3.0	373.3	7.4	2.5	466.8	1.5	0.20	
9/16/2015	2.0	374.8	1.5	2.0	468	1.2	0.40	
9/17/2015	2.0	374.8	0	2.0	468.3	0.3	0.03	
9/18/2015	2.0	374.9	0.1	2.0	468.3	0	--	
9/19/2015	3.0	--	--	2.0	--	--	--	
9/20/2015	3.0	--	--	2.0	--	--	--	
9/21/2015	3.0	380	5.1	2.0	468.3	0	--	
9/22/2015	5.5	382	2	2.0	468.3	0	--	
9/23/2015	3.0	382	0	2.0	468.3	0	--	
9/24/2015	4.5	385.8	3.8	2.0	468.5	0.2	--	
9/25/2015	4.3	388.4	2.6	2.0	468.5	0	--	
9/26/2015	4.0	--	--	2.0	--	--	--	
9/27/2015	6.0	--	--	6.0	--	--	--	
9/28/2015	5.8	396	7.6	5.5	470.8	2.3	0.22	
9/29/2015	2.0	396	0	3.0	470.8	0	--	Quarterly Pond samples collected
9/30/2015	3.3	397.4	1.4	5.5	480.1	9.3	--	

189.8

143.7

NM: Not measured

NR: Not recorded

N/A: Not available

\*From Rawlins Weather Service Station