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**LOST CREEK ISR, LLC**

April 28, 2017

4D-9068

ATTN: 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)  
1st Quarter 2017  
Lost Creek ISR Project License SUA-1598**

To Whom It May Concern:

This report for the first calendar quarter of 2017 has been submitted in accordance with License Condition (LC) 11.1(A) for Lost Creek ISR, LLC's (LCI) Lost Creek Project License SUA-1598. LC 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). Therefore, 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 and monitoring in accordance with TR Section 5.3.2.3.

#### **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 HH1-13 within Mine Unit 1 (MU1) 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.

The monitor wells within MU1 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 basis at least 10 days apart during production within Mine Unit 1. The results of excursion monitoring sample analysis are provided on **Attachment 1**. The attachment table displays the analytical result, the applicable UCL value, and the percent difference. A negative percent

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difference indicates the analytical value is less than the UCL. The percent difference (or percent change) is determined by the following formula:

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

The following results were in excess of the UCL but less than the 20% threshold:

- MO-107: 1/16/2017 Alkalinity
- MO-108: 1/4/2017 Conductivity; 1/16/2017 Alkalinity
- MU-109: 1/17/2017, 3/30/2017 Conductivity

The fluctuations in alkalinity and conductivity are likely due to natural variations in groundwater chemistry. The results for MU-109 may be lingering effects from the previous excursion in 2015. The results of the other parameters for these wells were nominal. Sampling for MO-108 was suspended for most of the quarter to allow for aquifer testing as described below. A sample was not collected from M-106 for the first sampling event in March since the well was not accessible due to snowmelt runoff.

Samples were not collected from the regional DE horizon wells LC29M and MB-10 due to lack of water.

#### *Excursion Status and Corrective Action*

An excursion was verified and declared for MO-108 on September 29, 2016 as described in the notification submitted to NRC dated October 4, 2016. The excursion had been corrected as of December 2016 but final declaration of resolution has not been submitted yet to allow for continued testing in the area of MO-108 associated with Header House 1-6 (HH1-6). Sampling of MO-108 and operation of HH1-6 were suspended to allow the groundwater to recover to an equilibrated state. When HH1-6 was restarted, the water levels were observed to verify that the back-cementing of wells 11181 and 11284 sealed the likely source of the excursion. Upon restart of HH1-6 in March, no significant effects on water levels were observed. The testing will be detailed in the pending excursion resolution report. Routine water sampling for MO-108 was resumed at the end of March and a final sample was collected for analysis of WDEQ-LQD Guideline 8 parameters.

## **STORAGE PONDS INSPECTION AND MONITORING**

The quarterly water quality samples were collected and the monitor wells were checked on March 29, 2017. However, the quarterly Storage Pond inspection was not documented by the RSO as described in a memo to file. The checklist had not been completed at the time the RSO resigned his position effective March 3, 2017 and the duty was not communicated to the replacement RSO or alternate RSO. The lack of the quarterly document was discovered during the preparation of

this quarterly report. All of the items and quarterly sampling listed on the quarterly form had already been completed in association with daily and weekly inspections but the RSO did not perform and document a quarterly review.

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

- *Freeboard*

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

- *Routine Inspections*

The daily and weekly inspections were completed for the quarter. The ponds were frozen for a majority of the quarter and no significant issues were identified.

- *Leak Detection System*

Some water was present in the leak detection (LD) sumps during the quarter. The sump pumps were used manually to purge water from the sumps as needed. At no time during the quarter did the level exceed the action level of 6 inches with the following exception. As a result of heavy snowfall in February, the unusually significant snowmelt runoff had infiltrated the sump casing at the surface for the North Pond and caused the level to exceed the 6 inch limit on two occasions 2/22/2017 and 2/27/2017. A verification sample was collected for the sump and analyzed (**Table 1**) but a sample from the Pond was not collected due to its frozen state. As a result of the comparative analysis (**Table 1**) with the most recent Pond water quality at the time, the sudden rise in water level was attributed to snowmelt infiltration. Upon inspection, it is likely that water entered the casing through the hole for the electrical conduit serving the sump pump. The hole in the side of the sump casing will be sealed. No significant rises in water level (i.e. over the 6 inch limit) were observed following the runoff event.

**TABLE 1: Pond and LD Sump Water Quality Comparison**

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	12/15/2016	658	21,400	60,500	7.36	14,800	1,960	36,000	0.013	0.124	199	1,290
N Pond LD Sump	2/27/2017	223	14.6	10,750	---	1,754	240	---	---	---	21.4	---

The average rates of residual water accumulating in the North and South Pond LD Sumps remained low (**Table 2**). The increase in accumulation rates for the North Sump is due to the snowmelt runoff infiltration event with a likely contribution from thawing in March.

**TABLE 2: LD Sump Accumulation Rates**

Month	North LD Sump Rate (in/hr)	South LD Sump Rate (in/hr)	Comments
January 2017	0.002	0.000	Pond frozen
February 2017	0.052	0.000	Pond frozen
March 2017	0.065	0.000	Pond thawed mid-March
<i>Average</i>	<i>0.039</i>	<i>0.000</i>	

- *Water Quality Monitoring*

Quarterly Pond samples were collected from the Pond surface on March 29, 2017. The significant reduction in values compared to the previous quarter is likely due to dilution from melting of the ice and snow cover. The samples were submitted to Energy Labs in Casper, WY and analyzed for the required parameters (**Table 3**).

**TABLE 3: Pond Water Quality**

Sample ID	Sample Date	Total Alkalinity (CaCO <sub>3</sub> )	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
<b>N Pond</b>	3/29/2017	121	3,310	11,200	7.46	2,060	293	6,260	0.002	0.019	28.6	252
<b>S Pond</b>	3/29/2017	142	792	3,280	7.85	552	227	1,840	0.005	0.022	17.5	350

- *Pond Monitor Wells*

Pond monitor wells were measured in association with the quarterly water sample collection. No water was detected in the wells as summarized on **Table 4**:

**TABLE 4: Pond Monitor Well Water Levels**

Well ID	Date	Water Level (ft-bmp)	Total Depth (ft-bmp)
MW-1	3/29/2017	ND	NM
MW-2	3/29/2017	ND	NM
MW-3	3/29/2017	ND	NM
MW-4	3/29/2017	ND	NM

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**

Cc: Deputy Director, Division of Decommissioning  
Uranium Recovery and Waste Programs  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Mail Stop T-8F5  
11545 Rockville Pike, Two White Flint North  
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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  
1st Quarter 2017  
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	1/13/2017	---	122	172	-29	6.0	21	-71	714	965	-26	
M-101	MU1 Ring	1/27/2017	14	120	172	-30	4.9	21	-77	692	965	-28	
M-101	MU1 Ring	2/10/2017	14	122	172	-29	4.8	21	-77	699	965	-28	
M-101	MU1 Ring	2/21/2017	11	120	172	-30	5.7	21	-73	667	965	-31	
M-101	MU1 Ring	3/9/2017	16	117	172	-32	6.0	21	-71	679	965	-30	
M-101	MU1 Ring	3/29/2017	20	114	172	-34	6.1	21	-71	679	965	-30	
M-102	MU1 Ring	1/13/2017	---	145	173	-16	6.0	20	-70	872	971	-10	
M-102	MU1 Ring	1/27/2017	14	131	173	-25	5.5	20	-73	837	971	-14	
M-102	MU1 Ring	2/10/2017	14	137	173	-21	5.2	20	-74	839	971	-14	
M-102	MU1 Ring	2/21/2017	11	133	173	-23	6.5	20	-68	819	971	-16	
M-102	MU1 Ring	3/9/2017	16	137	173	-21	7.0	20	-65	823	971	-15	
M-102	MU1 Ring	3/29/2017	20	130	173	-25	6.3	20	-69	812	971	-16	
M-103A	MU1 Ring	1/13/2017	---	141	150	-6	7.0	21	-67	848	1171	-28	
M-103A	MU1 Ring	1/27/2017	14	133	150	-11	6.0	21	-71	816	1171	-30	
M-103A	MU1 Ring	2/10/2017	14	132	150	-12	6.0	21	-71	820	1171	-30	
M-103A	MU1 Ring	2/21/2017	11	129	150	-14	6.0	21	-71	802	1171	-32	
M-103A	MU1 Ring	3/9/2017	16	135	150	-10	6.5	21	-69	813	1171	-31	
M-103A	MU1 Ring	3/29/2017	20	127	150	-15	5.6	21	-73	812	1171	-31	
M-104	MU1 Ring	1/13/2017	---	161	173	-7	6.0	22	-73	780	1162	-33	
M-104	MU1 Ring	1/27/2017	14	134	173	-23	6.8	22	-69	807	1162	-31	
M-104	MU1 Ring	2/10/2017	14	143	173	-17	6.6	22	-70	829	1162	-29	
M-104	MU1 Ring	2/21/2017	11	147	173	-15	6.3	22	-71	819	1162	-30	
M-104	MU1 Ring	3/9/2017	16	139	173	-20	6.3	22	-71	826	1162	-29	
M-104	MU1 Ring	3/29/2017	20	138	173	-20	6.2	22	-72	832	1162	-28	
M-105	MU1 Ring	1/13/2017	---	126	148	-15	6.0	21	-71	664	1036	-36	
M-105	MU1 Ring	1/27/2017	14	111	148	-25	5.2	21	-75	594	1036	-43	
M-105	MU1 Ring	2/13/2017	17	111	148	-25	4.9	21	-76	569	1036	-45	
M-105	MU1 Ring	2/27/2017	14	110	148	-25	6.0	21	-71	589	1036	-43	
M-105	MU1 Ring	3/10/2017	11	117	148	-21	5.7	21	-73	629	1036	-39	
M-105	MU1 Ring	3/29/2017	19	111	148	-25	5.9	21	-72	630	1036	-39	
M-106	MU1 Ring	1/13/2017	---	121	134	-10	6.0	21	-71	645	980	-34	
M-106	MU1 Ring	1/27/2017	14	121	134	-10	4.9	21	-77	624	980	-36	
M-106	MU1 Ring	2/13/2017	17	118	134	-12	5.0	21	-76	605	980	-38	
M-106	MU1 Ring	2/27/2017	14	116	134	-13	5.9	21	-72	596	980	-39	
M-106	MU1 Ring	3/10/2017	11	---	134	---	---	21	---	---	980	---	Well inaccessible
M-106	MU1 Ring	3/29/2017	19	116	134	-13	5.9	21	-72	617	980	-37	
M-107	MU1 Ring	1/13/2017	---	126	138	-9	6.0	21	-71	702	1033	-32	
M-107	MU1 Ring	1/27/2017	14	117	138	-15	5.8	21	-72	681	1033	-34	
M-107	MU1 Ring	2/13/2017	17	118	138	-14	6.1	21	-71	685	1033	-34	
M-107	MU1 Ring	2/27/2017	14	114	138	-18	5.7	21	-73	656	1033	-36	
M-107	MU1 Ring	3/13/2017	14	117	138	-15	7.0	21	-67	659	1033	-36	
M-107	MU1 Ring	3/29/2017	16	111	138	-20	5.5	21	-74	650	1033	-37	
M-108	MU1 Ring	1/13/2017	---	116	127	-9	6.0	21	-71	584	905	-35	
M-108	MU1 Ring	1/27/2017	14	106	127	-16	5.5	21	-74	573	905	-37	
M-108	MU1 Ring	2/13/2017	17	116	127	-9	5.5	21	-74	581	905	-36	
M-108	MU1 Ring	2/27/2017	14	110	127	-13	5.6	21	-74	562	905	-38	
M-108	MU1 Ring	3/13/2017	14	114	127	-10	5.8	21	-72	566	905	-37	
M-108	MU1 Ring	3/29/2017	16	106	127	-17	5.3	21	-75	561	905	-38	
M-109	MU1 Ring	1/13/2017	---	110	161	-32	6.0	20	-70	572	703	-19	
M-109	MU1 Ring	1/27/2017	14	100	161	-38	5.4	20	-73	565	703	-20	
M-109	MU1 Ring	2/13/2017	17	101	161	-37	5.3	20	-74	565	703	-20	
M-109	MU1 Ring	2/27/2017	14	103	161	-36	6.4	20	-68	554	703	-21	
M-109	MU1 Ring	3/13/2017	14	103	161	-36	5.5	20	-73	563	703	-20	
M-109	MU1 Ring	3/29/2017	16	105	161	-35	6.3	20	-69	567	703	-19	
M-110	MU1 Ring	1/13/2017	---	121	147	-18	8.0	21	-62	614	1022	-40	
M-110	MU1 Ring	1/27/2017	14	108	147	-26	6.5	21	-69	599	1022	-41	
M-110	MU1 Ring	2/13/2017	17	113	147	-23	6.6	21	-68	594	1022	-42	
M-110	MU1 Ring	2/27/2017	14	106	147	-28	6.7	21	-68	573	1022	-44	
M-110	MU1 Ring	3/13/2017	14	112	147	-24	6.7	21	-68	563	1022	-45	
M-110	MU1 Ring	3/29/2017	16	103	147	-30	6.8	21	-68	556	1022	-46	
M-111	MU1 Ring	1/13/2017	---	119	146	-18	6.0	21	-71	580	897	-35	
M-111	MU1 Ring	1/27/2017	14	106	146	-27	5.5	21	-74	568	897	-37	
M-111	MU1 Ring	2/13/2017	17	113	146	-22	5.9	21	-72	563	897	-37	
M-111	MU1 Ring	2/27/2017	14	109	146	-25	5.6	21	-73	553	897	-38	
M-111	MU1 Ring	3/13/2017	14	111	146	-24	6.6	21	-69	556	897	-38	
M-111	MU1 Ring	3/29/2017	16	102	146	-30	5.4	21	-74	554	897	-38	
M-112	MU1 Ring	1/13/2017	---	117	147	-20	5.0	20	-75	567	636	-11	
M-112	MU1 Ring	1/27/2017	14	105	147	-29	5.7	20	-71	550	636	-14	
M-112	MU1 Ring	2/13/2017	17	108	147	-27	5.5	20	-72	551	636	-13	
M-112	MU1 Ring	2/27/2017	14	109	147	-26	6.0	20	-70	548	636	-14	
M-112	MU1 Ring	3/13/2017	14	108	147	-26	5.9	20	-70	548	636	-14	
M-112	MU1 Ring	3/29/2017	16	108	147	-26	5.7	20	-72	555	636	-13	
M-113	MU1 Ring	1/10/2017	---	120	203	-41	5.0	21	-76	528	631	-16	
M-113	MU1 Ring	1/25/2017	15	99	203	-51	4.8	21	-77	519	631	-18	
M-113	MU1 Ring	2/9/2017	15	106	203	-48	4.9	21	-77	512	631	-19	

**Attachment 1: MU1 Water Quality Data  
1st Quarter 2017  
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	2/20/2017	11	99	203	-51	6.0	21	-72	512	631	-19	
M-113	MU1 Ring	3/8/2017	16	105	203	-48	5.2	21	-75	515	631	-18	
M-113	MU1 Ring	3/28/2017	20	99	203	-51	5.9	21	-72	518	631	-18	
M-114A	MU1 Ring	1/10/2017	---	109	139	-22	5.0	20	-75	533	772	-31	
M-114A	MU1 Ring	1/25/2017	15	100	139	-28	4.9	20	-76	522	772	-32	
M-114A	MU1 Ring	2/9/2017	15	106	139	-24	5.0	20	-75	520	772	-33	
M-114A	MU1 Ring	2/20/2017	11	102	139	-27	5.4	20	-73	520	772	-33	
M-114A	MU1 Ring	3/8/2017	16	105	139	-25	6.3	20	-68	520	772	-33	
M-114A	MU1 Ring	3/28/2017	20	98	139	-30	5.3	20	-74	518	772	-33	
M-115A	MU1 Ring	1/10/2017	---	108	126	-14	5.0	20	-75	499	726	-31	
M-115A	MU1 Ring	1/26/2017	16	97	126	-23	5.5	20	-72	496	726	-32	
M-115A	MU1 Ring	2/9/2017	14	101	126	-20	5.3	20	-74	489	726	-33	
M-115A	MU1 Ring	2/20/2017	11	103	126	-18	4.9	20	-76	485	726	-33	
M-115A	MU1 Ring	3/8/2017	16	100	126	-20	6.1	20	-69	492	726	-32	
M-115A	MU1 Ring	3/28/2017	20	96	126	-24	4.7	20	-76	482	726	-34	
M-116A	MU1 Ring	1/10/2017	---	109	134	-19	5.0	20	-75	508	679	-25	
M-116A	MU1 Ring	1/26/2017	16	100	134	-25	5.0	20	-75	500	679	-26	
M-116A	MU1 Ring	2/9/2017	14	104	134	-22	5.0	20	-75	497	679	-27	
M-116A	MU1 Ring	2/20/2017	11	101	134	-25	5.9	20	-70	489	679	-28	
M-116A	MU1 Ring	3/8/2017	16	106	134	-21	5.4	20	-73	494	679	-27	
M-116A	MU1 Ring	3/28/2017	20	101	134	-25	5.4	20	-73	492	679	-28	
M-117	MU1 Ring	1/11/2017	---	107	139	-23	5.0	20	-75	515	711	-28	
M-117	MU1 Ring	1/26/2017	15	100	139	-28	4.7	20	-76	505	711	-29	
M-117	MU1 Ring	2/9/2017	14	104	139	-25	4.8	20	-76	503	711	-29	
M-117	MU1 Ring	2/20/2017	11	98	139	-30	5.6	20	-72	493	711	-31	
M-117	MU1 Ring	3/8/2017	16	103	139	-26	5.1	20	-74	497	711	-30	
M-117	MU1 Ring	3/28/2017	20	98	139	-29	5.8	20	-71	500	711	-30	
M-118	MU1 Ring	1/11/2017	---	102	108	-6	5.0	21	-76	516	762	-32	
M-118	MU1 Ring	1/26/2017	15	93	108	-14	4.9	21	-77	512	762	-33	
M-118	MU1 Ring	2/9/2017	14	95	108	-12	4.9	21	-76	507	762	-33	
M-118	MU1 Ring	2/20/2017	11	93	108	-14	5.5	21	-74	495	762	-35	
M-118	MU1 Ring	3/8/2017	16	95	108	-12	5.8	21	-72	502	762	-34	
M-118	MU1 Ring	3/28/2017	20	91	108	-16	5.3	21	-75	502	762	-34	
M-119	MU1 Ring	1/11/2017	---	118	128	-8	5.0	20	-75	483	622	-22	
M-119	MU1 Ring	1/26/2017	15	107	128	-16	5.8	20	-71	475	622	-24	
M-119	MU1 Ring	2/9/2017	14	119	128	-7	5.9	20	-70	463	622	-26	
M-119	MU1 Ring	2/20/2017	11	109	128	-15	5.7	20	-72	468	622	-25	
M-119	MU1 Ring	3/8/2017	16	112	128	-13	6.4	20	-68	468	622	-25	
M-119	MU1 Ring	3/28/2017	20	105	128	-18	5.5	20	-72	472	622	-24	
M-120A	MU1 Ring	1/11/2017	---	115	142	-19	5.0	20	-75	488	715	-32	
M-120A	MU1 Ring	1/26/2017	15	107	142	-25	5.0	20	-75	479	715	-33	
M-120A	MU1 Ring	2/9/2017	14	110	142	-23	5.1	20	-74	475	715	-34	
M-120A	MU1 Ring	2/20/2017	11	111	142	-22	6.4	20	-68	475	715	-34	
M-120A	MU1 Ring	3/8/2017	16	117	142	-18	5.7	20	-71	470	715	-34	
M-120A	MU1 Ring	3/28/2017	20	100	142	-30	5.1	20	-75	474	715	-34	
M-121	MU1 Ring	1/11/2017	---	112	140	-20	5.7	20	-72	516	755	-32	
M-121	MU1 Ring	1/26/2017	15	109	140	-22	4.9	20	-76	517	755	-32	
M-121	MU1 Ring	2/9/2017	14	108	140	-23	4.8	20	-76	510	755	-32	
M-121	MU1 Ring	2/20/2017	11	112	140	-20	6.3	20	-68	514	755	-32	
M-121	MU1 Ring	3/8/2017	16	114	140	-19	5.1	20	-74	510	755	-32	
M-121	MU1 Ring	3/28/2017	20	106	140	-24	5.6	20	-72	512	755	-32	
M-122	MU1 Ring	1/11/2017	---	127	142	-11	5.0	20	-75	516	593	-13	
M-122	MU1 Ring	1/26/2017	15	104	142	-27	5.3	20	-73	505	593	-15	
M-122	MU1 Ring	2/9/2017	14	111	142	-22	6.0	20	-70	519	593	-12	
M-122	MU1 Ring	2/20/2017	11	110	142	-23	5.4	20	-73	502	593	-15	
M-122	MU1 Ring	3/8/2017	16	103	142	-27	6.0	20	-70	507	593	-15	
M-122	MU1 Ring	3/28/2017	20	118	142	-17	5.5	20	-72	511	593	-14	
M-123	MU1 Ring	1/11/2017	---	120	131	-8	5.0	20	-75	506	718	-30	
M-123	MU1 Ring	1/26/2017	15	111	131	-15	5.6	20	-72	495	718	-31	
M-123	MU1 Ring	2/10/2017	15	115	131	-12	5.3	20	-73	496	718	-31	
M-123	MU1 Ring	2/21/2017	11	113	131	-14	5.6	20	-72	491	718	-32	

**Attachment 1: MU1 Water Quality Data  
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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	3/8/2017	15	112	131	-15	5.8	20	-71	495	718	-31	
M-123	MU1 Ring	3/28/2017	20	107	131	-18	5.2	20	-74	495	718	-31	
M-124	MU1 Ring	1/13/2017	---	116	123	-6	5.0	20	-75	477	536	-11	
M-124	MU1 Ring	1/26/2017	13	107	123	-13	4.7	20	-76	469	536	-13	
M-124	MU1 Ring	2/10/2017	15	108	123	-12	4.8	20	-76	469	536	-13	
M-124	MU1 Ring	2/21/2017	11	106	123	-14	6.5	20	-67	469	536	-13	
M-124	MU1 Ring	3/8/2017	15	111	123	-10	5.1	20	-75	468	536	-13	
M-124	MU1 Ring	3/28/2017	20	106	123	-13	4.8	20	-76	465	536	-13	
M-125	MU1 Ring	1/13/2017	---	115	135	-15	6.0	21	-71	559	657	-15	
M-125	MU1 Ring	1/26/2017	13	102	135	-25	5.6	21	-73	545	657	-17	
M-125	MU1 Ring	2/10/2017	15	110	135	-18	6.1	21	-71	551	657	-16	
M-125	MU1 Ring	2/21/2017	11	108	135	-20	6.6	21	-69	542	657	-18	
M-125	MU1 Ring	3/9/2017	16	108	135	-20	5.9	21	-72	545	657	-17	
M-125	MU1 Ring	3/28/2017	19	103	135	-23	6.6	21	-69	540	657	-18	
M-126	MU1 Ring	1/13/2017	---	117	194	-40	6.0	21	-71	558	682	-18	
M-126	MU1 Ring	1/26/2017	13	107	194	-45	6.0	21	-71	550	682	-19	
M-126	MU1 Ring	2/10/2017	15	108	194	-44	5.6	21	-73	546	682	-20	
M-126	MU1 Ring	2/21/2017	11	109	194	-44	5.9	21	-72	550	682	-19	
M-126	MU1 Ring	3/9/2017	16	105	194	-46	7.1	21	-66	545	682	-20	
M-126	MU1 Ring	3/28/2017	19	102	194	-47	6.3	21	-70	542	682	-21	
M-127	MU1 Ring	1/13/2017	---	117	149	-21	6.0	21	-71	568	792	-28	
M-127	MU1 Ring	1/27/2017	14	109	149	-27	6.2	21	-70	560	792	-29	
M-127	MU1 Ring	2/10/2017	14	112	149	-25	5.7	21	-73	556	792	-30	
M-127	MU1 Ring	2/21/2017	11	107	149	-28	6.8	21	-67	551	792	-30	
M-127	MU1 Ring	3/9/2017	16	105	149	-30	6.8	21	-68	556	792	-30	
M-127	MU1 Ring	3/28/2017	19	107	149	-28	5.8	21	-72	558	792	-30	
M-128	MU1 Ring	1/13/2017	---	118	122	-3	5.0	21	-76	584	802	-27	
M-128	MU1 Ring	1/27/2017	14	105	122	-14	5.5	21	-74	571	802	-29	
M-128	MU1 Ring	2/10/2017	14	115	122	-6	6.4	21	-70	575	802	-28	
M-128	MU1 Ring	2/21/2017	11	112	122	-8	6.9	21	-67	573	802	-29	
M-128	MU1 Ring	3/9/2017	16	100	122	-18	5.6	21	-73	574	802	-28	
M-128	MU1 Ring	3/28/2017	19	109	122	-10	5.8	21	-72	576	802	-28	
MO-101	MU1 Overlying	1/16/2017	---	114	136	-16	7.0	23	-70	666	824	-19	
MO-101	MU1 Overlying	1/30/2017	14	113	136	-17	6.9	23	-70	641	824	-22	
MO-101	MU1 Overlying	2/14/2017	15	104	136	-23	6.6	23	-71	637	824	-23	
MO-101	MU1 Overlying	2/27/2017	13	103	136	-25	7.6	23	-67	631	824	-23	
MO-101	MU1 Overlying	3/13/2017	14	106	136	-22	7.4	23	-68	631	824	-23	
MO-101	MU1 Overlying	3/30/2017	17	99	136	-27	8.4	23	-63	642	824	-22	
MO-102	MU1 Overlying	1/16/2017	---	107	125	-14	7.0	21	-67	606	670	-10	
MO-102	MU1 Overlying	1/30/2017	14	100	125	-20	6.6	21	-69	590	670	-12	
MO-102	MU1 Overlying	2/14/2017	15	102	125	-18	7.0	21	-67	600	670	-10	
MO-102	MU1 Overlying	2/27/2017	13	99	125	-21	6.8	21	-68	593	670	-11	
MO-102	MU1 Overlying	3/13/2017	14	103	125	-18	7.4	21	-65	592	670	-12	
MO-102	MU1 Overlying	3/30/2017	17	96	125	-23	6.5	21	-69	592	670	-12	
MO-103	MU1 Overlying	1/16/2017	---	108	130	-17	8.1	21	-61	680	849	-20	
MO-103	MU1 Overlying	1/30/2017	14	107	130	-18	9.0	21	-57	707	849	-17	
MO-103	MU1 Overlying	2/14/2017	15	116	130	-11	8.1	21	-61	712	849	-16	
MO-103	MU1 Overlying	2/27/2017	13	116	130	-11	10.6	21	-50	710	849	-16	
MO-103	MU1 Overlying	3/13/2017	14	95	130	-27	9.7	21	-54	718	849	-15	
MO-103	MU1 Overlying	3/30/2017	17	114	130	-12	8.0	21	-62	721	849	-15	
MO-104	MU1 Overlying	1/16/2017	---	121	160	-24	9.0	24	-63	613	714	-14	
MO-104	MU1 Overlying	1/30/2017	14	109	160	-32	7.8	24	-68	599	714	-16	
MO-104	MU1 Overlying	2/14/2017	15	113	160	-30	8.6	24	-64	606	714	-15	
MO-104	MU1 Overlying	2/28/2017	14	111	160	-30	8.7	24	-64	594	714	-17	
MO-104	MU1 Overlying	3/13/2017	13	112	160	-30	7.8	24	-67	594	714	-17	
MO-104	MU1 Overlying	3/30/2017	17	107	160	-33	9.4	24	-61	593	714	-17	
MO-105	MU1 Overlying	1/16/2017	---	120	128	-6	6.0	20	-70	489	669	-27	
MO-105	MU1 Overlying	1/30/2017	14	98	128	-23	4.9	20	-75	479	669	-28	
MO-105	MU1 Overlying	2/14/2017	15	106	128	-17	5.5	20	-73	481	669	-28	
MO-105	MU1 Overlying	2/28/2017	14	100	128	-22	5.5	20	-73	477	669	-29	
MO-105	MU1 Overlying	3/13/2017	13	104	128	-19	5.4	20	-73	479	669	-28	
MO-105	MU1 Overlying	3/30/2017	17	96	128	-25	6.1	20	-70	479	669	-28	
MO-106	MU1 Overlying	1/16/2017	---	107	143	-25	6.0	20	-70	477	626	-24	
MO-106	MU1 Overlying	1/30/2017	14	96	143	-33	5.8	20	-71	466	626	-26	
MO-106	MU1 Overlying	2/14/2017	15	99	143	-31	5.4	20	-73	469	626	-25	
MO-106	MU1 Overlying	2/28/2017	14	98	143	-31	6.2	20	-69	460	626	-27	



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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	3/13/2017	13	98	143	-32	6.7	20	-67	465	626	-26	
MO-106	MU1 Overlying	3/30/2017	17	96	143	-33	5.3	20	-73	466	626	-26	
MO-107	MU1 Overlying	1/16/2017	---	120	110	9	6.0	20	-70	472	502	-6	
MO-107	MU1 Overlying	1/30/2017	14	96	110	-12	5.3	20	-73	467	502	-7	
MO-107	MU1 Overlying	2/15/2017	16	99	110	-10	4.9	20	-75	462	502	-8	
MO-107	MU1 Overlying	2/28/2017	13	102	110	-7	6.7	20	-66	463	502	-8	
MO-107	MU1 Overlying	3/13/2017	13	101	110	-8	5.6	20	-72	465	502	-7	
MO-107	MU1 Overlying	3/30/2017	17	98	110	-11	4.9	20	-76	463	502	-8	
MO-108	MU1 Overlying	1/4/2017	---	111	118	-6	9.0	20	-55	533	513	4	
MO-108	MU1 Overlying	1/16/2017	12	120	118	2	7.0	20	-65	506	513	-1	
MO-108	MU1 Overlying	1/30/2017	14	---	118	---	---	20	---	---	513	---	
MO-108	MU1 Overlying	2/15/2017	16	---	118	---	---	20	---	---	513	---	Sampling suspended during aquifer testing
MO-108	MU1 Overlying	2/27/2017	12	---	118	---	---	20	---	---	513	---	
MO-108	MU1 Overlying	3/14/2017	15	---	118	---	---	20	---	---	513	---	
MO-108	MU1 Overlying	3/27/2017	13	93	118	-21	6.8	20	-66	486	513	-5	
MO-109	MU1 Overlying	1/17/2017	---	113	120	-6	8.0	21	-62	517	567	-9	
MO-109	MU1 Overlying	1/31/2017	14	103	120	-15	6.5	21	-69	511	567	-10	
MO-109	MU1 Overlying	2/15/2017	15	107	120	-11	7.1	21	-66	508	567	-10	
MO-109	MU1 Overlying	2/28/2017	13	109	120	-10	7.5	21	-64	506	567	-11	
MO-109	MU1 Overlying	3/14/2017	14	112	120	-7	6.8	21	-68	509	567	-10	
MO-109	MU1 Overlying	3/30/2017	16	101	120	-16	7.6	21	-64	516	567	-9	
MO-110	MU1 Overlying	1/17/2017	---	102	128	-20	5.0	23	-78	442	533	-17	
MO-110	MU1 Overlying	1/31/2017	14	94	128	-26	4.8	23	-79	436	533	-18	
MO-110	MU1 Overlying	2/15/2017	15	98	128	-23	5.2	23	-78	434	533	-19	
MO-110	MU1 Overlying	2/28/2017	13	94	128	-26	5.8	23	-75	434	533	-19	
MO-110	MU1 Overlying	3/14/2017	14	96	128	-25	5.8	23	-75	434	533	-19	
MO-110	MU1 Overlying	3/30/2017	16	91	128	-29	5.0	23	-78	438	533	-18	
MO-111	MU1 Overlying	1/17/2017	---	104	115	-10	7.0	20	-65	442	639	-31	
MO-111	MU1 Overlying	1/31/2017	14	94	115	-19	7.7	20	-61	437	639	-32	
MO-111	MU1 Overlying	2/15/2017	15	97	115	-15	6.7	20	-66	438	639	-31	
MO-111	MU1 Overlying	3/1/2017	14	106	115	-7	10.1	20	-50	452	639	-29	
MO-111	MU1 Overlying	3/14/2017	13	100	115	-13	10.0	20	-50	461	639	-28	
MO-111	MU1 Overlying	3/30/2017	16	102	115	-12	10.7	20	-46	476	639	-26	
MO-112	MU1 Overlying	1/17/2017	---	113	252	-55	7.0	22	-68	434	541	-20	
MO-112	MU1 Overlying	1/31/2017	14	102	252	-59	6.4	22	-71	428	541	-21	
MO-112	MU1 Overlying	2/15/2017	15	104	252	-59	6.5	22	-70	427	541	-21	
MO-112	MU1 Overlying	3/1/2017	14	108	252	-57	7.0	22	-68	422	541	-22	
MO-112	MU1 Overlying	3/14/2017	13	107	252	-58	7.2	22	-67	429	541	-21	
MO-112	MU1 Overlying	3/30/2017	16	103	252	-59	7.6	22	-66	433	541	-20	
MO-113	MU1 Overlying	1/17/2017	---	108	121	-11	6.0	21	-71	457	484	-6	
MO-113	MU1 Overlying	1/31/2017	14	99	121	-18	5.6	21	-73	451	484	-7	
MO-113	MU1 Overlying	2/15/2017	15	104	121	-14	6.5	21	-69	449	484	-7	
MO-113	MU1 Overlying	3/1/2017	14	100	121	-18	6.5	21	-69	447	484	-8	
MO-113	MU1 Overlying	3/14/2017	13	106	121	-12	6.5	21	-69	452	484	-7	
MO-113	MU1 Overlying	3/31/2017	17	95	121	-21	6.3	21	-70	452	484	-7	
MU-101	MU1 Underlying	1/16/2017	---	115	157	-27	5.0	20	-75	556	653	-15	
MU-101	MU1 Underlying	1/30/2017	14	110	157	-30	5.1	20	-74	544	653	-17	
MU-101	MU1 Underlying	2/14/2017	15	116	157	-26	5.2	20	-74	541	653	-17	
MU-101	MU1 Underlying	2/27/2017	13	107	157	-32	5.8	20	-71	553	653	-15	
MU-101	MU1 Underlying	3/13/2017	14	109	157	-31	5.0	20	-75	545	653	-17	
MU-101	MU1 Underlying	3/30/2017	17	101	157	-35	5.0	20	-75	543	653	-17	
MU-102	MU1 Underlying	1/16/2017	---	110	119	-8	5.0	19	-74	436	507	-14	
MU-102	MU1 Underlying	1/30/2017	14	100	119	-16	5.1	19	-73	428	507	-16	
MU-102	MU1 Underlying	2/14/2017	15	102	119	-14	4.4	19	-77	426	507	-16	
MU-102	MU1 Underlying	2/27/2017	13	104	119	-13	6.1	19	-68	424	507	-16	
MU-102	MU1 Underlying	3/13/2017	14	103	119	-13	4.8	19	-75	427	507	-16	
MU-102	MU1 Underlying	3/30/2017	17	99	119	-16	5.1	19	-73	429	507	-15	
MU-103	MU1 Underlying	1/16/2017	---	107	213	-50	5.0	20	-75	431	560	-23	
MU-103	MU1 Underlying	1/30/2017	14	98	213	-54	4.8	20	-76	424	560	-24	
MU-103	MU1 Underlying	2/14/2017	15	103	213	-51	4.7	20	-77	419	560	-25	
MU-103	MU1 Underlying	2/27/2017	13	102	213	-52	5.5	20	-73	420	560	-25	
MU-103	MU1 Underlying	3/13/2017	14	105	213	-51	5.4	20	-73	422	560	-25	
MU-103	MU1 Underlying	3/30/2017	17	98	213	-54	5.6	20	-72	423	560	-24	
MU-104B	MU1 Underlying	1/16/2017	---	103	159	-35	5.0	21	-76	439	572	-23	
MU-104B	MU1 Underlying	1/30/2017	14	96	159	-40	4.4	21	-79	433	572	-24	
MU-104B	MU1 Underlying	2/14/2017	15	98	159	-38	5.3	21	-75	431	572	-25	

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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-104B	MU1 Underlying	2/28/2017	14	96	159	-40	5.3	21	-75	434	572	-24	
MU-104B	MU1 Underlying	3/13/2017	13	100	159	-37	5.1	21	-77	433	572	-24	
MU-104B	MU1 Underlying	3/30/2017	17	92	159	-42	4.9	21	-77	435	572	-24	
MU-105	MU1 Underlying	1/16/2017	---	108	124	-13	6.0	19	-68	446	562	-21	
MU-105	MU1 Underlying	1/30/2017	14	103	124	-17	4.9	19	-74	443	562	-21	
MU-105	MU1 Underlying	2/14/2017	15	101	124	-19	4.9	19	-74	438	562	-22	
MU-105	MU1 Underlying	2/28/2017	14	100	124	-20	6.0	19	-68	432	562	-23	
MU-105	MU1 Underlying	3/13/2017	13	101	124	-19	4.8	19	-75	436	562	-22	
MU-105	MU1 Underlying	3/30/2017	17	105	124	-15	4.7	19	-76	434	562	-23	
MU-106	MU1 Underlying	1/16/2017	---	107	137	-22	5.0	20	-75	455	522	-13	
MU-106	MU1 Underlying	1/30/2017	14	100	137	-27	5.6	20	-72	428	522	-18	
MU-106	MU1 Underlying	2/14/2017	15	101	137	-26	4.7	20	-76	439	522	-16	
MU-106	MU1 Underlying	2/28/2017	14	102	137	-25	6.0	20	-70	421	522	-19	
MU-106	MU1 Underlying	3/13/2017	13	101	137	-26	5.3	20	-74	419	522	-20	
MU-106	MU1 Underlying	3/30/2017	17	96	137	-30	5.7	20	-72	430	522	-18	
MU-107	MU1 Underlying	1/16/2017	---	108	136	-21	5.0	20	-75	477	556	-14	
MU-107	MU1 Underlying	1/30/2017	14	97	136	-29	4.8	20	-76	474	556	-15	
MU-107	MU1 Underlying	2/15/2017	16	104	136	-24	4.8	20	-76	476	556	-14	
MU-107	MU1 Underlying	2/28/2017	13	102	136	-25	5.5	20	-72	474	556	-15	
MU-107	MU1 Underlying	3/13/2017	13	106	136	-22	5.8	20	-71	478	556	-14	
MU-107	MU1 Underlying	3/30/2017	17	98	136	-28	5.5	20	-73	475	556	-15	
KPW-2	MU1 Underlying	1/16/2017	---	113	136	-17	8.0	21	-62	509	615	-17	
KPW-2	MU1 Underlying	1/30/2017	14	106	136	-22	8.6	21	-59	523	615	-15	
KPW-2	MU1 Underlying	2/15/2017	16	104	136	-23	7.3	21	-65	493	615	-20	
KPW-2	MU1 Underlying	2/28/2017	13	103	136	-24	9.0	21	-57	504	615	-18	
KPW-2	MU1 Underlying	3/14/2017	14	105	136	-23	8.1	21	-61	508	615	-17	
KPW-2	MU1 Underlying	3/27/2017	13	106	136	-22	10.3	21	-51	542	615	-12	
MU-109	MU1 Underlying	1/17/2017	---	130	196	-34	12.0	23	-48	567	525	-8	
MU-109	MU1 Underlying	1/31/2017	14	127	196	-35	14.1	23	-39	515	525	-2	
MU-109	MU1 Underlying	2/15/2017	15	124	196	-37	12.8	23	-44	520	525	-1	
MU-109	MU1 Underlying	2/28/2017	13	123	196	-37	12.4	23	-46	520	525	-1	
MU-109	MU1 Underlying	3/14/2017	14	127	196	-35	12.3	23	-46	520	525	-1	
MU-109	MU1 Underlying	3/30/2017	16	125	196	-36	14.6	23	-36	589	525	-12	
MU-110	MU1 Underlying	1/17/2017	---	98	144	-32	7.0	24	-71	469	596	-21	
MU-110	MU1 Underlying	1/31/2017	14	88	144	-39	5.7	24	-76	467	596	-22	
MU-110	MU1 Underlying	2/15/2017	15	96	144	-33	5.9	24	-75	464	596	-22	
MU-110	MU1 Underlying	2/28/2017	13	95	144	-34	5.7	24	-76	507	596	-15	
MU-110	MU1 Underlying	3/14/2017	14	97	144	-33	6.7	24	-72	468	596	-21	
MU-110	MU1 Underlying	3/30/2017	16	91	144	-36	6.8	24	-72	470	596	-21	
MU-111	MU1 Underlying	1/17/2017	---	101	188	-46	6.0	22	-73	512	652	-21	
MU-111	MU1 Underlying	1/31/2017	14	92	188	-51	4.7	22	-79	508	652	-22	
MU-111	MU1 Underlying	2/15/2017	15	96	188	-49	4.9	22	-78	506	652	-22	
MU-111	MU1 Underlying	3/1/2017	14	92	188	-51	6.7	22	-70	465	652	-29	
MU-111	MU1 Underlying	3/14/2017	13	96	188	-49	5.5	22	-75	511	652	-22	
MU-111	MU1 Underlying	3/30/2017	16	91	188	-52	4.9	22	-78	509	652	-22	
MU-112	MU1 Underlying	1/17/2017	---	101	224	-55	5.0	24	-79	454	483	-6	
MU-112	MU1 Underlying	1/31/2017	14	103	224	-54	4.8	24	-80	449	483	-7	
MU-112	MU1 Underlying	2/15/2017	15	94	224	-58	5.2	24	-78	445	483	-8	
MU-112	MU1 Underlying	3/1/2017	14	94	224	-58	6.2	24	-74	447	483	-7	
MU-112	MU1 Underlying	3/14/2017	13	96	224	-57	5.0	24	-79	451	483	-7	
MU-112	MU1 Underlying	3/30/2017	16	89	224	-60	4.6	24	-81	455	483	-6	
MU-113	MU1 Underlying	1/17/2017	---	109	140	-22	6.0	25	-76	483	590	-18	
MU-113	MU1 Underlying	1/31/2017	14	88	140	-37	5.5	25	-78	483	590	-18	
MU-113	MU1 Underlying	2/15/2017	15	91	140	-35	5.1	25	-80	478	590	-19	
MU-113	MU1 Underlying	3/1/2017	14	91	140	-35	5.9	25	-76	480	590	-19	
MU-113	MU1 Underlying	3/14/2017	13	95	140	-32	5.0	25	-80	482	590	-18	
MU-113	MU1 Underlying	3/31/2017	17	89	140	-37	5.6	25	-77	485	590	-18	
LC29M	Regional DE	3/27/2017	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	Insufficient water
MB-10	Regional DE	3/27/2017	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	Insufficient water

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 1: MU1 Water Quality Data - Quality Control**  
**1st Quarter 2017**  
**Lost Creek ISR Project SUA-1598**

QC Sample ID	Collection Date	QC Type	Source Sample ID	Alkalinity (mg/L)			Chloride (mg/L)			Sp. Cond. (uS/cm)		
				QC Sample Assay	Source Sample Assay	RPD	QC Sample Assay	Source Sample Assay	RPD	QC Sample Assay	Primary Sample Assay	RPD
M-129	1/13/2017	Duplicate	M-120	128	115	11	5.0	5.0	0	487	488	0
M-129	1/26/2017	Duplicate	M-123	108	111	3	5.1	5.6	10	504	495	2
M-129	2/10/2017	Duplicate	M-123	116	115	1	5.3	5.3	1	498	496	0
M-129	2/20/2017	Duplicate	M-121	108	112	4	5.9	6.3	7	514	514	0
M-129	3/8/2017	Duplicate	M-118	99	95	4	4.9	5.8	17	513	492	4
M-129	3/28/2017	Duplicate	M-117	93	98	5	5.4	5.8	6	504	500	1
M-130	1/13/2017	Field Blank	N/A	ND(5)	N/A	N/A	ND(1)	N/A	N/A	ND(5)	N/A	N/A
M-130	1/27/2017	Field Blank	N/A	7	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
M-130	2/10/2017	Field Blank	N/A	11	N/A	N/A	0.0	N/A	N/A	5	N/A	N/A
M-130	2/21/2017	Field Blank	N/A	15	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
M-130	3/8/2017	Field Blank	N/A	11	N/A	N/A	0.0	N/A	N/A	29	N/A	N/A
M-130	3/28/2017	Field Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	28	N/A	N/A
M-131	1/13/2017	Duplicate	M-121	116	112	4	6.0	5.7	5	522	516	1
M-131	1/26/2017	Duplicate	M-124	105	107	1	4.5	4.7	5	470	469	0
M-131	2/10/2017	Duplicate	M-124	107	108	1	4.6	4.8	6	468	469	0
M-131	2/20/2017	Duplicate	M-122	118	110	7	5.1	5.4	5	502	502	0
M-131	3/8/2017	Duplicate	M-119	113	112	1	5.5	6.4	16	473	468	1
M-131	3/28/2017	Duplicate	M-118	93	91	2	5.5	5.3	3	510	502	2
M-132	1/13/2017	Field Blank	N/A	ND(5)	N/A	N/A	ND(1)	N/A	N/A	ND(5)	N/A	N/A
M-132	1/27/2017	Field Blank	N/A	9	N/A	N/A	0.6	N/A	N/A	2	N/A	N/A
M-132	2/10/2017	Field Blank	N/A	1	N/A	N/A	0.0	N/A	N/A	1	N/A	N/A
M-132	2/21/2017	Field Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	33	N/A	N/A
M-132	3/8/2017	Field Blank	N/A	14	N/A	N/A	0.0	N/A	N/A	30	N/A	N/A
M-132	3/28/2017	Field Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
MO-121	1/17/2017	Duplicate	MO-109	113	113	0	7.0	8.0	13	516	517	0
MO-121	1/30/2017	Duplicate	MO-102	97	100	3	6.8	6.6	3	595	590	1
MO-121	2/15/2017	Duplicate	MO-109	109	107	2	6.7	7.1	6	511	508	1
MO-121	2/28/2017	Duplicate	MU-105	102	100	2	5.0	6.0	18	434	432	0
MO-121	3/13/2017	Duplicate	MO-103	115	95	19	10.0	9.7	4	715	718	0
MO-121	3/30/2017	Duplicate	MO-109	103	101	2	7.4	7.6	3	523	516	1
MO-122	1/17/2017	Field Blank	N/A	ND(5)	N/A	N/A	ND(1)	N/A	N/A	ND(5)	N/A	N/A
MO-122	1/31/2017	Field Blank	N/A	110	N/A	N/A	10.0	N/A	N/A	712	N/A	N/A
MO-122	2/15/2017	Field Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	6	N/A	N/A
MO-122	3/1/2017	Field Blank	N/A	17	N/A	N/A	0.0	N/A	N/A	37	N/A	N/A
MO-122	3/14/2017	Field Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	30	N/A	N/A
MO-122	3/30/2017	Duplicate	MO-110	92	91	1	4.9	5.0	1	444	438	1
MU-123	1/17/2017	Duplicate	MO-110	97	102	5	7.0	5.0	33	469	442	6
MU-123	1/30/2017	Field Blank	N/A	9	N/A	N/A	0.0	N/A	N/A	33	N/A	N/A
MU-123	2/15/2017	Duplicate	MO-110	96	98	2	5.7	5.2	10	438	434	1
MU-123	3/1/2017	Duplicate	MU-112	95	94	1	4.8	6.2	25	450	447	1
MU-123	3/13/2017	Duplicate	MO-105	106	104	2	6.2	5.4	14	481	479	0
MU-123	3/30/2017	Field Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
MU-124	1/17/2017	Field Blank	N/A	ND(5)	N/A	N/A	ND(1)	N/A	N/A	ND(5)	N/A	N/A
MU-124	1/31/2017	Field Blank	N/A	10	N/A	N/A	0.5	N/A	N/A	2	N/A	N/A
MU-124	2/15/2017	Field Blank	N/A	3	N/A	N/A	0.0	N/A	N/A	7	N/A	N/A
MU-124	3/1/2017	Field Blank	N/A	14	N/A	N/A	0.0	N/A	N/A	35	N/A	N/A
MU-124	3/14/2017	Field Blank	N/A	15	N/A	N/A	0.0	N/A	N/A	34	N/A	N/A

RPD: Relative Percent Difference