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**UIC CLASS I  
QUARTERLY REPORT  
for the  
LOST CREEK ISR PROJECT  
2nd Quarter 2017**



**LOST CREEK ISR, LLC  
SWEETWATER COUNTY, WY**

**UIC PERMIT 13-409**

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**Prepared by Ur-Energy for  
Wyoming Department of Environmental Quality -  
Water Quality Division – Underground Injection Control**

**July 28, 2017**



## Contents

1.0	Introduction.....	1
2.0	Summary Data .....	2
3.0	Analytical Results .....	6
4.0	Permit Exceedances.....	6
5.0	Alarms, Shut-Downs, and Corrective Actions.....	7
6.0	Summary of Well Tests or Workovers .....	7

## Tables

Table 1A:	Operational Data Summary for DDW-1
Table 1B:	Operational Data Summary for DDW-3
Table 1C:	Operational Data Summary for DDW-4
Table 2:	Cumulative Injection Volumes to Date
Table 3:	Analytical Results Summary
Table 4:	Summary of Exceedances
Table 5:	Summary of Automatic Pressure Shutoff Testing

## Figures

Figure 1:	Well Locations
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## Appendices

Appendix 1:	Daily Injection Pressures
Appendix 2:	Lab Report

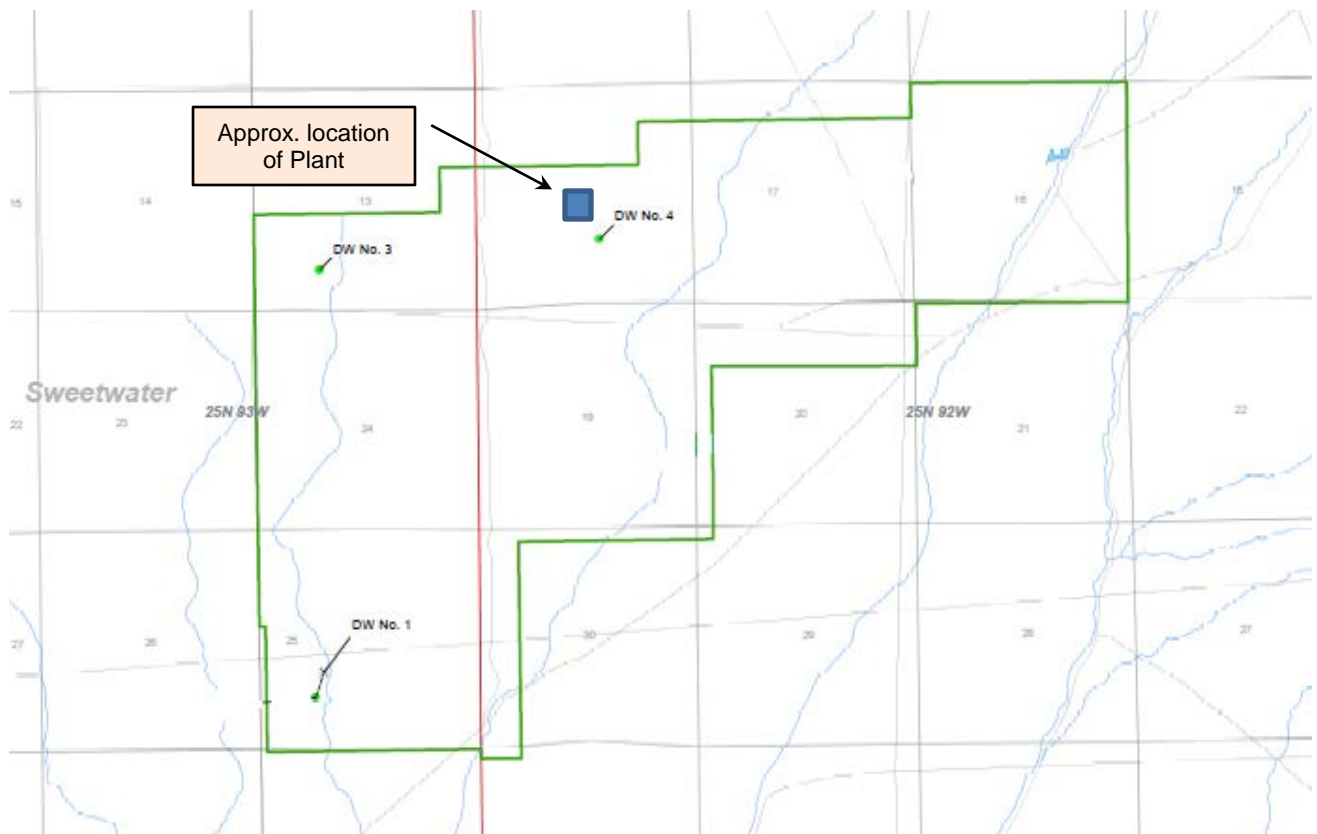


## 1.0 Introduction

The period covered by this report is the first calendar quarter of 2017 from April 1 to June 30, 2017.

Three Class I disposal wells were operational during the reporting period: LC DW No. 1 (“DDW-1”), LC DW No. 3 (“DDW-3”), and LC DW No. 4 (“DDW-4”). Well locations (labeled) are shown below in relation to the Permit to Mine boundary (green line):

**FIGURE 1: Well Locations**



All three wells were operated intermittently during the quarter. Operational data was monitored and recorded electronically and also recorded manually by operator each shift.

As per permit requirements, the following elements from Section K(6) of the UIC Permit have been included in this report:

- a.** *Minimum, volume-weighted average, and maximum instantaneous injection rates for each well for each month*
- b.** *Minimum, average, and maximum daily injection pressures for each well for each month*



- c. Total injection volume in barrels (bbl) for each well for each month, total for the quarter, and cumulative volume of waste injected to date.*
- d. Maximum and minimum annulus pressures for each month with alarm/kill pressure value*
- e. Quarterly analytical results*
- f. Permit exceedances during the quarter*
- g. Any alarms or shutdowns and corrective actions*
- h. Summary of well tests or workovers*

## 2.0 Summary Data

**Tables 1A, 1B, 1C, and 2** below provide a data summary for above items **a**, **c**, and **d** above. Data for item **b** above is provided in **Appendix 1** including tables and charts of the daily injection pressure values.



**TABLE 1A: Operational Data Summary for DDW-1**

PARAMETER	UNITS	LC DW No. 1			
		April 2017	May 2017	June 2017	Quarterly Total/Min/Max/Avg
Operation Time	min	41,156	42,429	40,404	41,330
% Run Time	%	95%	95%	94%	95%
Injection Rate Minimum Instantaneous	gpm	0	0	0	0.0
Injection Rate Average (TWA)	gpm	1.6	1.1	1.1	1.2
Injection Rate Maximum Instantaneous	gpm	1.8	1.6	1.3	1.6
Injection Rate Maximum Permit Limit	gpm	<b>50</b>			<b>50</b>
Injection Pressure Daily Minimum	psig	506	518	536	520
Injection Pressure Daily Average	psig	572	580	578	577
Injection Pressure Daily Maximum	psig	602	602	602	602
Injection Pressure Permit Limit (LSIP)	psig	<b>609</b>			<b>609</b>
Injection Pressure Automatic Kill	psig	<b>600</b>			<b>600</b>
Injection Volume	gal	64,259	47,494	42,554	154,307
Injection Volume	bbl	1,530	1,131	1,013	3,674
Annulus Pressure Minimum	psig	335	328	294	319
Annulus Pressure Average	psig	352	332	297	327
Annulus Pressure Maximum	psig	366	338	328	344
Annulus Pressure Permit Limit	psig	<b>200-800</b>			<b>200-800</b>
Annulus Pressure Automatic Kill	psig	N/A			N/A



**TABLE 1B: Operational Data Summary for DDW-3**

PARAMETER	UNITS	LC DW No. 3			
		April 2017	May 2017	June 2017	Quarterly Total/Min/Max/Avg
Operation Time	min	38,025	44,168	43,113	125,306
% Run Time	%	88%	99%	100%	96%
Injection Rate Minimum Instantaneous	gpm	0	0	0	0
Injection Rate Average (TWA)	gpm	7	5	6	6
Injection Rate Maximum Instantaneous	gpm	11	16	7	11
Injection Rate Maximum Permit Limit	gpm	<b>50</b>			<b>50</b>
Injection Pressure Daily Minimum	psig	731	713	776	740
Injection Pressure Daily Average	psig	847	850	846	848
Injection Pressure Daily Maximum	psig	898	887	874	886
Injection Pressure Permit Limit (LSIP)	psig	<b>915</b>			<b>915</b>
Injection Pressure Automatic Kill	psig	<b>910</b>			<b>910</b>
Injection Volume	gal	251,625	225,235	239,051	715,911
Injection Volume	bbl	5,991	5,363	5,692	17,046
Annulus Pressure Minimum	psig	266	254	258	259
Annulus Pressure Average	psig	270	267	264	267
Annulus Pressure Maximum	psig	276	273	270	273
Annulus Pressure Permit Limit	psig	<b>200-800</b>			<b>200-800</b>
Annulus Pressure Automatic Kill	psig	N/A			N/A



**TABLE 1C: Operational Data Summary for DDW-4**

PARAMETER	UNITS	LC DW No. 4			
		April 2017	May 2017	June 2017	Quarterly Total/Min/Max/Avg
Operation Time	min	42,549	43,466	42,425	128,440
% Run Time	%	98%	97%	98%	98%
Injection Rate Minimum Instantaneous	gpm	0	0	0	0
Injection Rate Average (TWA)	gpm	8.2	7.3	7.4	8
Injection Rate Maximum Instantaneous	gpm	9	9	9	9
Injection Rate Maximum Permit Limit	gpm	<b>50</b>			<b>50</b>
Injection Pressure Daily Minimum	psig	644	479	664	596
Injection Pressure Daily Average	psig	740	747	733	740
Injection Pressure Daily Maximum	psig	808	785	767	786
Injection Pressure Permit Limit (LSIP)	psig	<b>838</b>			<b>838</b>
Injection Pressure Automatic Kill	psig	<b>830</b>			<b>830</b>
Injection Volume	gal	349,725	318,151	314,718	982,594
Injection Volume	bbl	8,327	7,575	7,493	23,395
Annulus Pressure Minimum	psig	283	281	291	285
Annulus Pressure Average	psig	293	294	297	295
Annulus Pressure Maximum	psig	302	303	301	302
Annulus Pressure Permit Limit	psig	<b>200-800</b>			<b>200-800</b>
Annulus Pressure Automatic Kill	psig	N/A			N/A

**TABLE 2: Cumulative Injection Volumes to Date**

TIME PERIOD	UNITS	LC DW No. 1	LC DW No. 3	LC DW No. 4
2013	bbl	14,625	N/A	6,471
2014	bbl	31,278	8,239	164,694
2015	bbl	14,966	130,113	105,999
2016	bbl	9,300	95,653	107,254
2017Q1	bbl	2,431	19,936	22,367
2017Q2	bbl	3,674	17,046	23,395
<b>CUMULATIVE TOTAL TO DATE</b>	<b>bbl</b>	<b>76,274</b>	<b>270,986</b>	<b>430,181</b>



### 3.0 Analytical Results

A quarterly grab sample of the injectate was collected from the Plant waste water line upstream of the branch points to each individual well. Sample parameters pH, conductivity, and temperature were measured with a field meter at the sampling site or in the onsite lab and other applicable parameters were analyzed by Energy Laboratories in Casper, WY. Results of the sample analyses are summarized in **Table 3** below and the associated lab report is included as **Appendix 2**.

**TABLE 3: Analytical Results Summary**

Sample ID: DDW-Injectate			
Sample Date: 5/4/2017			
Lab Analyte or Parameter	Method Used	Results	Units
pH, field	SM4500-H*B	6.62	s.u.
Specific Cond. at 25°C, field	120.1	13,260	uS/cm
Temperature, field	SM2550B	14.0	°C
Specific Gravity	n/a	1.000	---
Total Dissolved Solids	SM2540C	8,440	mg/L
Bicarbonate	SM2320B	751	mg/L
Carbonate	SM2320B	ND(5)	mg/L
Chloride, total	300.0	3,970	mg/L
Sulfate, total	300.0	1,240	mg/L
Sulfide (as hydrogen sulfide)	A4500-S F	ND(1)	mg/L
Arsenic, dissolved	200.8	0.008	mg/L
Selenium, dissolved	200.8	0.158	mg/L
Vanadium, dissolved	200.8	ND(0.01)	mg/L
Uranium, total	200.7	45.2	mg/L
Radium-226, total	E903.0	1,610	pCi/L

The only constituent with a defined Permit limit is pH which must have a value between 2.0 and 12.5. The measured value for pH of 6.62 was within the limit.

### 4.0 Permit Exceedances

No exceedances occurred during the quarter (**Table 4**).





**TABLE 4: Summary of Exceedances**

Event	Well	Date	Limit Exceeded	Peak Value	Permit Limit	Comment
No exceedances occurred during the quarter						

## 5.0 Alarms, Shut-Downs, and Corrective Actions

Nominal shutdowns occurred automatically due to pressure settings or due to maintenance activity such as changing inline filters or program changes. Intermittent operation of the injection systems is typical.

Maintenance activities completed during the quarter included:

- Routine pump oil and filter changes at all three wells

Testing of the pressure switches to verify operation of automatic shutdown and pressures occurred in June. Digital shutoff is tested by reducing the shutoff pressure setting to prevent test pressure from exceeding permit limit and verifying the system shuts off at that pressure. Results of the testing are summarized on **Table 5**:

**TABLE 5: Summary of Automatic Pressure Shutoff Testing**

Well	Permit Pressure Limit (psi)	Test Date	Digital Shutoff Tested at (psi)	Digital Shutoff Set at (psi)	Digital Shutoff Function	Analog Pressure Switch Shutoff At (psi)	Analog Pressure Switch Function
DDW-1	609	6/6/2017	550	599	Pass	603	Pass
DDW-3	915	6/18/2017	850	885	Pass	909	Pass
DDW-4	838	6/13/2017	700	810	Pass	830	Pass

## 6.0 Summary of Well Tests or Workovers

No well tests or workovers occurred during the quarter.



## APPENDIX 1

**APPENDIX 1: Daily Injection Pressures  
DDW-1 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
4/1/2017	516	531	542	600	609	
4/2/2017	514	524	544	600	609	
4/3/2017	543	563	578	600	609	
4/4/2017	575	586	595	600	609	
4/5/2017	591	596	599	600	609	
4/6/2017	523	561	594	600	609	
4/7/2017	506	513	523	600	609	
4/8/2017	520	548	575	600	609	
4/9/2017	563	586	599	600	609	
4/10/2017	554	586	599	600	609	
4/11/2017	556	584	602	600	609	
4/12/2017	563	589	599	600	609	
4/13/2017	570	589	599	600	609	
4/14/2017	563	569	581	600	609	
4/15/2017	566	580	592	600	609	
4/16/2017	573	586	593	600	609	
4/17/2017	535	555	575	600	609	
4/18/2017	532	554	591	600	609	
4/19/2017	540	575	601	600	609	
4/20/2017	533	572	584	600	609	
4/21/2017	571	579	584	600	609	
4/22/2017	563	567	573	600	609	
4/23/2017	565	570	573	600	609	
4/24/2017	571	583	592	600	609	
4/25/2017	589	593	595	600	609	
4/26/2017	529	579	594	600	609	
4/27/2017	580	590	595	600	609	
4/28/2017	543	572	593	600	609	
4/29/2017	534	542	557	600	609	
4/30/2017	555	574	589	600	609	
5/1/2017	575	591	599	600	609	
5/2/2017	555	581	602	600	609	
5/3/2017	557	589	600	600	609	
5/4/2017	549	578	601	600	609	
5/5/2017	582	589	590	600	609	
5/6/2017	588	591	592	600	609	
5/7/2017	587	590	592	600	609	
5/8/2017	585	586	589	600	609	
5/9/2017	585	588	592	600	609	
5/10/2017	571	583	592	600	609	
5/11/2017	545	558	572	600	609	
5/12/2017	540	544	550	600	609	

**APPENDIX 1: Daily Injection Pressures  
DDW-1 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

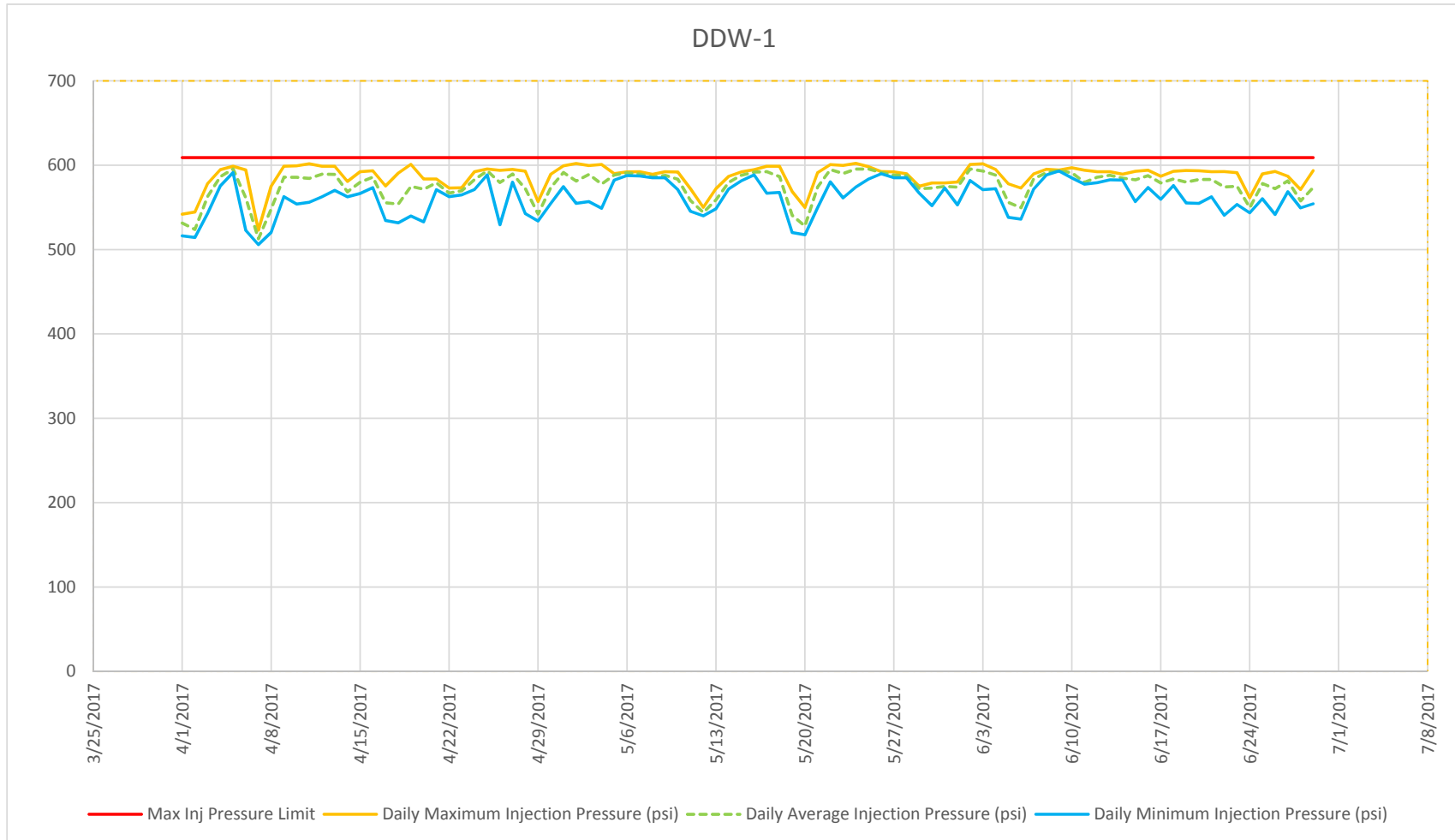
Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
5/13/2017	548	559	572	600	609	
5/14/2017	572	580	587	600	609	
5/15/2017	581	588	592	600	609	
5/16/2017	588	592	595	600	609	
5/17/2017	567	592	599	600	609	
5/18/2017	568	587	599	600	609	
5/19/2017	520	541	569	600	609	
5/20/2017	518	528	550	600	609	
5/21/2017	550	574	591	600	609	
5/22/2017	580	595	601	600	609	
5/23/2017	561	590	600	600	609	
5/24/2017	574	595	602	600	609	
5/25/2017	584	596	598	600	609	
5/26/2017	590	591	592	600	609	
5/27/2017	585	588	592	600	609	
5/28/2017	585	588	590	600	609	
5/29/2017	567	572	575	600	609	Backup datalogger data
5/30/2017	552	573	579	600	609	Backup datalogger data
5/31/2017	573	575	579	600	609	Backup datalogger data
6/1/2017	553	574	580	600	609	Backup datalogger data
6/2/2017	582	596	601	600	609	
6/3/2017	571	593	602	600	609	
6/4/2017	572	588	595	600	609	
6/5/2017	538	556	578	600	609	
6/6/2017	536	550	573	599	609	
6/7/2017	572	584	590	599	609	
6/8/2017	588	591	595	599	609	
6/9/2017	593	594	594	599	609	
6/10/2017	585	591	597	599	609	Daily records
6/11/2017	578	580	594	599	609	
6/12/2017	579	586	592	599	609	
6/13/2017	583	588	592	599	609	
6/14/2017	582	585	589	599	609	
6/15/2017	557	583	593	599	609	
6/16/2017	574	588	594	599	609	
6/17/2017	560	579	587	599	609	
6/18/2017	576	584	593	599	609	
6/19/2017	555	580	594	599	609	
6/20/2017	555	583	593	599	609	
6/21/2017	562	583	592	599	609	
6/22/2017	541	574	592	599	609	
6/23/2017	553	575	591	599	609	

**APPENDIX 1: Daily Injection Pressures  
DDW-1 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
6/24/2017	543	550	561	599	609	
6/25/2017	560	578	590	599	609	
6/26/2017	542	572	593	599	609	
6/27/2017	569	581	587	599	609	
6/28/2017	549	558	571	599	609	
6/29/2017	554	574	593	599	609	
6/30/2017	572	586	590	599	609	

*psi: pounds per square inch*

APPENDIX 1: Daily Injection Pressures  
DDW-1 2nd Quarter 2017  
Lost Creek ISR Project 13-409



**APPENDIX 1: Daily Injection Pressures  
DDW-3 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
4/1/2017	856	870	889	900	915	
4/2/2017	835	868	891	900	915	
4/3/2017	873	874	876	900	915	
4/4/2017	731	813	875	900	915	
4/5/2017	733	770	809	900	915	
4/6/2017	808	837	855	900	915	
4/7/2017	852	863	868	900	915	
4/8/2017	865	866	868	900	915	
4/9/2017	865	869	872	900	915	
4/10/2017	869	871	872	900	915	
4/11/2017	813	843	871	900	915	
4/12/2017	813	832	872	900	915	
4/13/2017	850	861	870	900	915	
4/14/2017	830	852	870	900	915	
4/15/2017	781	807	831	900	915	
4/16/2017	786	846	892	900	915	
4/17/2017	863	872	875	900	915	
4/18/2017	841	849	865	900	915	
4/19/2017	810	827	855	900	915	
4/20/2017	812	833	848	900	915	
4/21/2017	842	845	849	900	915	
4/22/2017	843	860	872	900	915	
4/23/2017	849	861	895	900	915	
4/24/2017	840	868	898	900	915	
4/25/2017	820	852	864	900	915	
4/26/2017	768	800	823	900	915	
4/27/2017	769	809	837	900	915	
4/28/2017	835	853	866	900	915	
4/29/2017	848	866	896	900	915	
4/30/2017	859	873	896	900	915	
5/1/2017	852	873	887	900	915	
5/2/2017	862	869	878	900	915	
5/3/2017	864	868	871	900	915	
5/4/2017	862	867	872	900	915	
5/5/2017	859	861	864	900	915	
5/6/2017	857	860	862	900	915	
5/7/2017	859	868	874	900	915	
5/8/2017	821	837	867	900	915	
5/9/2017	795	810	834	900	915	
5/10/2017	798	825	833	900	915	
5/11/2017	830	850	857	900	915	
5/12/2017	854	859	862	900	915	

**APPENDIX 1: Daily Injection Pressures  
DDW-3 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
5/13/2017	859	863	865	900	915	
5/14/2017	860	864	873	900	915	
5/15/2017	871	874	878	900	915	
5/16/2017	767	813	874	900	915	
5/17/2017	713	767	787	900	915	
5/18/2017	783	826	858	900	915	
5/19/2017	845	859	872	900	915	
5/20/2017	859	862	865	900	915	
5/21/2017	860	868	871	900	915	
5/22/2017	854	868	871	900	915	
5/23/2017	849	853	860	900	915	
5/24/2017	852	860	868	900	915	
5/25/2017	853	855	858	900	915	
5/26/2017	857	867	871	900	915	
5/27/2017	861	864	866	900	915	
5/28/2017	863	866	868	900	915	
5/29/2017	831	850	868	900	915	
5/30/2017	768	825	840	900	915	
5/31/2017	839	847	855	900	915	
6/1/2017	850	857	863	900	915	
6/2/2017	788	813	857	900	915	
6/3/2017	776	788	820	900	915	
6/4/2017	819	854	863	900	915	
6/5/2017	843	849	853	900	915	
6/6/2017	850	854	860	900	915	
6/7/2017	853	857	862	900	915	
6/8/2017	812	847	867	900	915	
6/9/2017	827	836	854	900	915	
6/10/2017	837	854	864	900	915	
6/11/2017	834	838	845	900	915	
6/12/2017	843	852	863	900	915	
6/13/2017	858	861	864	900	915	
6/14/2017	833	841	863	900	915	
6/15/2017	834	844	854	900	915	
6/16/2017	851	860	865	900	915	
6/17/2017	839	858	864	900	915	
6/18/2017	838	855	862	885	915	
6/19/2017	861	868	870	885	915	
6/20/2017	782	840	870	885	915	
6/21/2017	781	796	839	885	915	
6/22/2017	836	844	858	885	915	
6/23/2017	853	856	862	885	915	

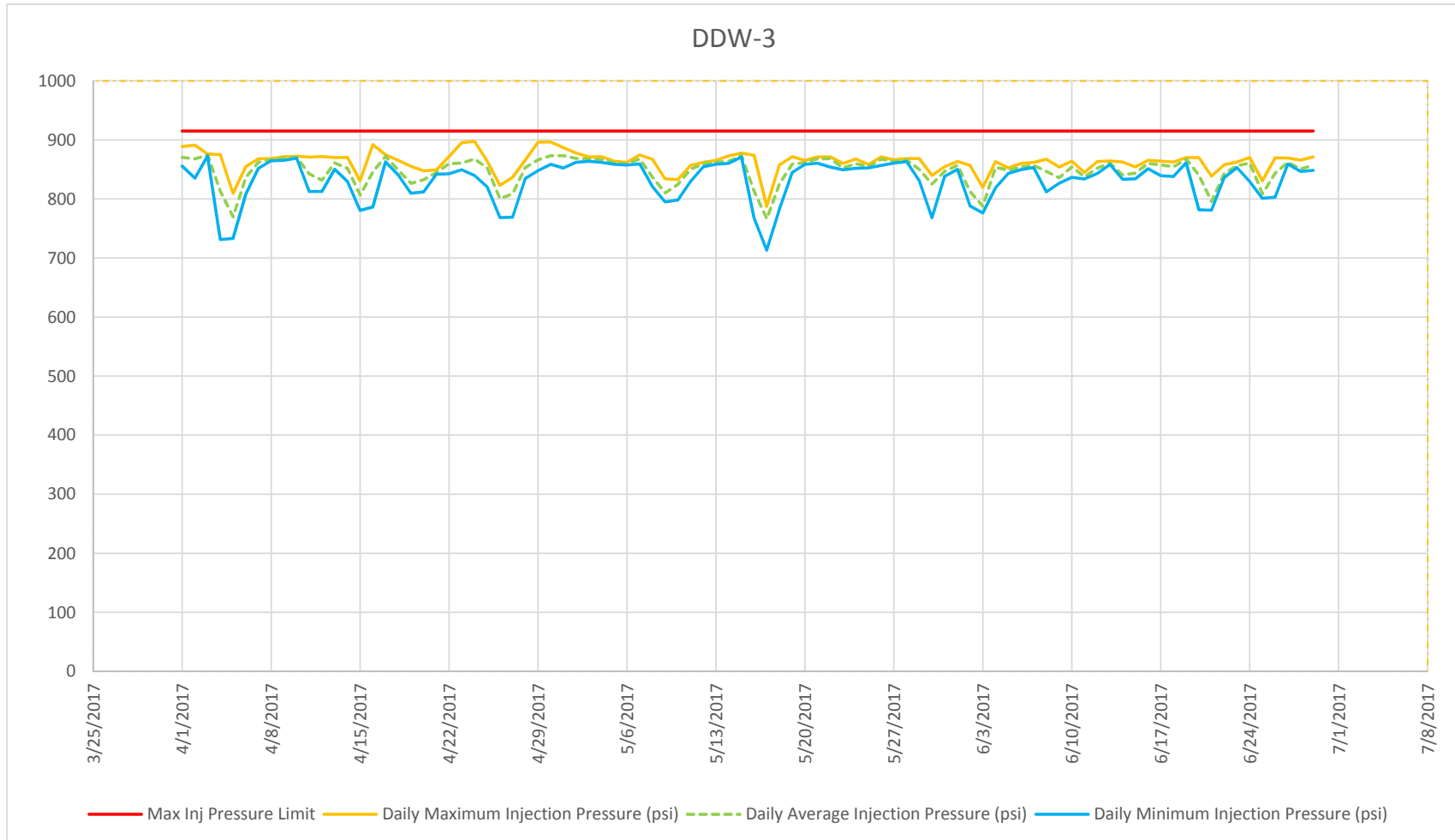


**APPENDIX 1: Daily Injection Pressures  
DDW-3 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

<b>Date</b>	<b>Daily Minimum Injection Pressure (psi)</b>	<b>Daily Average Injection Pressure (psi)</b>	<b>Daily Maximum Injection Pressure (psi)</b>	<b>Automatic Shutdown Pressure (psi)</b>	<b>Maximum Injection Pressure Limit (psi)</b>	<b>Comments</b>
6/24/2017	829	861	870	885	915	
6/25/2017	801	809	831	885	915	
6/26/2017	803	844	870	885	915	
6/27/2017	859	862	869	885	915	
6/28/2017	847	851	866	885	915	
6/29/2017	848	857	871	885	915	
6/30/2017	869	871	874	885	915	

*psi: pounds per square inch*

APPENDIX 1: Daily Injection Pressures  
DDW-3 2nd Quarter 2017  
Lost Creek ISR Project 13-409



**APPENDIX 1: Daily Injection Pressures  
DDW-4 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
4/1/2017	743	761	777	810	838	
4/2/2017	758	769	778	810	838	
4/3/2017	726	769	779	810	838	
4/4/2017	653	668	747	810	838	
4/5/2017	657	705	750	810	838	
4/6/2017	730	755	778	810	838	
4/7/2017	742	770	780	810	838	
4/8/2017	725	766	779	810	838	
4/9/2017	758	772	781	810	838	
4/10/2017	729	764	782	810	838	
4/11/2017	699	719	771	810	838	
4/12/2017	701	738	756	810	838	
4/13/2017	720	758	770	810	838	
4/14/2017	679	726	760	810	838	
4/15/2017	644	682	720	810	838	
4/16/2017	670	757	779	810	838	
4/17/2017	710	760	779	810	838	
4/18/2017	721	744	757	810	838	
4/19/2017	693	711	751	810	838	
4/20/2017	714	730	749	810	838	
4/21/2017	687	736	768	810	838	
4/22/2017	684	749	777	810	838	
4/23/2017	685	742	768	810	838	
4/24/2017	679	750	808	810	838	
4/25/2017	706	737	771	810	838	
4/26/2017	651	677	730	810	838	
4/27/2017	663	723	749	810	838	
4/28/2017	729	748	766	810	838	
4/29/2017	734	769	782	810	838	
4/30/2017	750	773	793	810	838	
5/1/2017	750	773	784	810	838	
5/2/2017	753	764	778	810	838	
5/3/2017	758	768	779	810	838	
5/4/2017	732	764	780	810	838	
5/5/2017	749	761	772	810	838	
5/6/2017	750	764	782	810	838	
5/7/2017	728	766	783	810	838	
5/8/2017	712	727	750	810	838	
5/9/2017	686	710	746	810	838	
5/10/2017	713	738	764	810	838	
5/11/2017	743	757	772	810	838	
5/12/2017	750	763	776	810	838	

**APPENDIX 1: Daily Injection Pressures  
DDW-4 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

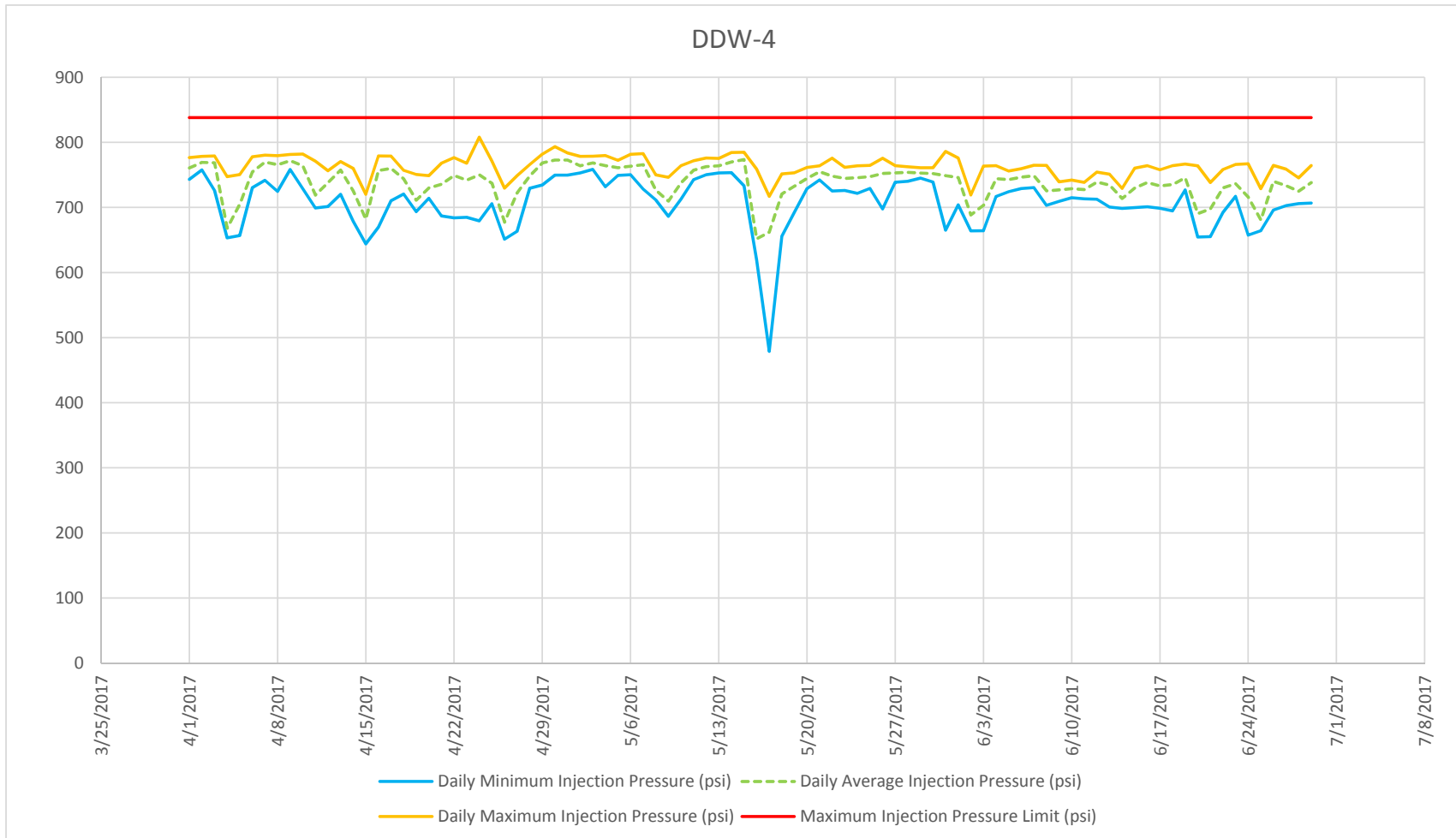
Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
5/13/2017	753	764	775	810	838	
5/14/2017	753	770	784	810	838	
5/15/2017	733	774	785	810	838	
5/16/2017	619	652	759	810	838	
5/17/2017	479	662	717	810	838	
5/18/2017	656	721	752	810	838	
5/19/2017	692	733	753	810	838	
5/20/2017	729	745	761	810	838	
5/21/2017	742	755	764	810	838	
5/22/2017	725	748	776	810	838	
5/23/2017	726	745	762	810	838	
5/24/2017	722	746	764	810	838	
5/25/2017	729	748	765	810	838	
5/26/2017	698	752	775	810	838	
5/27/2017	739	753	764	810	838	
5/28/2017	740	754	763	810	838	
5/29/2017	745	753	761	810	838	Daily records
5/30/2017	739	752	761	810	838	Backup datalogger data
5/31/2017	665	749	786	810	838	Backup datalogger data
6/1/2017	704	746	776	810	838	Backup datalogger data
6/2/2017	664	689	719	810	838	
6/3/2017	664	703	764	810	838	
6/4/2017	717	744	764	810	838	
6/5/2017	724	743	756	810	838	
6/6/2017	729	747	760	810	838	
6/7/2017	731	749	765	810	838	
6/8/2017	703	725	765	810	838	
6/9/2017	709	727	739	810	838	
6/10/2017	715	729	742	810	838	Daily records
6/11/2017	713	727	739	810	838	
6/12/2017	713	739	754	810	838	
6/13/2017	701	734	751	810	838	
6/14/2017	698	714	729	810	838	
6/15/2017	700	730	760	810	838	
6/16/2017	701	738	764	810	838	
6/17/2017	699	733	758	810	838	
6/18/2017	695	735	764	810	838	
6/19/2017	727	746	767	810	838	
6/20/2017	654	691	764	810	838	
6/21/2017	655	698	738	810	838	
6/22/2017	692	730	758	810	838	
6/23/2017	717	736	766	810	838	

**APPENDIX 1: Daily Injection Pressures  
DDW-4 2nd Quarter 2017  
Lost Creek ISR Project 13-409**

<b>Date</b>	<b>Daily Minimum Injection Pressure (psi)</b>	<b>Daily Average Injection Pressure (psi)</b>	<b>Daily Maximum Injection Pressure (psi)</b>	<b>Shutdown Pressure (psi)</b>	<b>Maximum Injection Pressure Limit (psi)</b>	<b>Comments</b>
6/24/2017	657	716	767	810	838	
6/25/2017	664	681	729	810	838	
6/26/2017	696	740	765	810	838	
6/27/2017	703	733	759	810	838	
6/28/2017	706	725	745	810	838	
6/29/2017	707	738	764	810	838	
6/30/2017	718	741	763	810	838	

*psi: pounds per square inch*

APPENDIX 1: Daily Injection Pressures  
DDW-4 2nd Quarter 2017  
Lost Creek ISR Project 13-409





## APPENDIX 2



# ANALYTICAL SUMMARY REPORT

May 17, 2017

UR Energy USA Inc  
10758 W Centennial Rd Ste 200  
Ken Caryl Ranch, CO 80127

Work Order: C17050215  
Project Name: Lost Creek Class I

Energy Laboratories, Inc. Casper WY received the following 1 sample for UR Energy USA Inc on 5/5/2017 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C17050215-001	DDW-Injectate	05/04/17 10:00	05/05/17	Aqueous	Metals by ICP/ICPMS, Total Alkalinity Conductivity Specific Gravity Anions by Ion Chromatography pH Metals Preparation by EPA 200.2 Radium 226, Total Solids, Total Dissolved Sulfide, Iodine Titrimetric

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:





**CLIENT:** UR Energy USA Inc  
**Project:** Lost Creek Class I  
**Work Order:** C17050215

**Report Date:** 05/17/17

## **CASE NARRATIVE**

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Tests associated with analyst identified as ELI-G were subcontracted to Energy Laboratories, 400 W. Boxelder Rd., Gillette, WY, EPA Number WY00006.

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc  
**Project:** Lost Creek Class I  
**Lab ID:** C17050215-001  
**Client Sample ID:** DDW-Injectate

**Report Date:** 05/17/17  
**Collection Date:** 05/04/17 10:00  
**Date Received:** 05/05/17  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Carbonate as CO3	ND	mg/L		5		A2320 B	05/08/17 14:23 / mvr
Bicarbonate as HCO3	751	mg/L		5		A2320 B	05/08/17 14:23 / mvr
Chloride	3970	mg/L	D	10		E300.0	05/13/17 01:25 / jcg
Sulfate	1240	mg/L	D	40		E300.0	05/13/17 01:25 / jcg
<b>INORGANICS</b>							
Sulfide	ND	mg/L		1		A4500-S F	05/10/17 11:51 / eli-b
Sulfide as Hydrogen Sulfide (H2S)	ND	mg/L		1		A4500-S F	05/10/17 11:51 / eli-b
<b>PHYSICAL PROPERTIES</b>							
Specific Gravity 60/60F	1.000	unitless				D1429	05/10/17 15:43 / eli-g
Conductivity @ 25 C	14700	umhos/cm		5		A2510 B	05/09/17 13:11 / mvr
pH	7.04	s.u.	H	0.01		A4500-H B	05/06/17 12:48 / mvr
Solids, Total Dissolved TDS @ 180 C	8440	mg/L	D	100		A2540 C	05/08/17 11:20 / mvr
<b>METALS, TOTAL</b>							
Arsenic	0.008	mg/L	D	0.002		E200.8	05/13/17 22:39 / eli-b
Selenium	0.158	mg/L	D	0.004		E200.8	05/13/17 22:39 / eli-b
Uranium	45.2	mg/L		0.0003		E200.8	05/13/17 22:39 / eli-b
Vanadium	ND	mg/L		0.01		E200.8	05/13/17 22:39 / eli-b
<b>RADIONUCLIDES, TOTAL</b>							
Radium 226	1610	pCi/L				E903.0	05/16/17 09:00 / trs
Radium 226 precision (±)	301	pCi/L				E903.0	05/16/17 09:00 / trs
Radium 226 MDC	0.20	pCi/L				E903.0	05/16/17 09:00 / trs

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration  
 H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix.



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/15/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> A4500-S F									Batch: ttrsulfide170510A
<b>Lab ID:</b> MBLK	Method Blank								Run: MISC-WC_170510C 05/10/17 09:05
Sulfide	ND	mg/L	0.3						
<b>Lab ID:</b> LCS	Laboratory Control Sample								Run: MISC-WC_170510C 05/10/17 09:05
Sulfide	27.9	mg/L	1.0	100	90	110			
<b>Lab ID:</b> B17050675-001AMS	Sample Matrix Spike								Run: MISC-WC_170510C 05/10/17 09:05
Sulfide	284	mg/L	5.0	97	70	130			
<b>Lab ID:</b> B17050675-001AMSD	Sample Matrix Spike Duplicate								Run: MISC-WC_170510C 05/10/17 09:05
Sulfide	284	mg/L	5.0	97	70	130	0.0	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/15/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
<b>Method:</b> E200.8							Analytical Run: ICPMS206-B_170512A			
<b>Lab ID:</b> QCS	Initial Calibration Verification Standard						05/13/17 17:42			
Arsenic	0.0515	mg/L	0.0050	103	90	110				
Selenium	0.0500	mg/L	0.0050	100	90	110				
Uranium	0.0203	mg/L	0.0010	101	90	110				
Vanadium	0.0472	mg/L	0.10	94	90	110				
<b>Method:</b> E200.8							Batch: 109389			
<b>Lab ID:</b> MB-109389	Method Blank						Run: ICPMS206-B_170512A 05/13/17 22:35			
Arsenic	ND	mg/L	0.0002							
Selenium	ND	mg/L	0.0004							
Uranium	ND	mg/L	0.00003							
Vanadium	ND	mg/L	0.00007							
<b>Lab ID:</b> LCS-109389	Laboratory Control Sample						Run: ICPMS206-B_170512A 05/13/17 22:42			
Arsenic	0.478	mg/L	0.0010	96	85	115				
Selenium	0.501	mg/L	0.0010	100	85	115				
Uranium	0.547	mg/L	0.00030	109	85	115				
Vanadium	0.487	mg/L	0.010	97	85	115				
<b>Lab ID:</b> C17050215-001CMS3	Sample Matrix Spike						Run: ICPMS206-B_170512A 05/13/17 22:46			
Arsenic	0.518	mg/L	0.0016	102	70	130				
Selenium	0.628	mg/L	0.0036	94	70	130				
Uranium	46.5	mg/L	0.00030		70	130			A	
Vanadium	0.490	mg/L	0.010	98	70	130				
<b>Lab ID:</b> C17050215-001CMSD3	Sample Matrix Spike Duplicate						Run: ICPMS206-B_170512A 05/13/17 22:49			
Arsenic	0.487	mg/L	0.0016	96	70	130	6.0	20		
Selenium	0.618	mg/L	0.0036	92	70	130	1.6	20		
Uranium	47.0	mg/L	0.00030		70	130	1.3	20	A	
Vanadium	0.475	mg/L	0.010	95	70	130	3.0	20		

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



# QA/QC Summary Report

Prepared by Gillette, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/10/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> D1429									Batch: R235948
<b>Lab ID:</b> LCS-R235948	Laboratory Control Sample								Run: BAL-ACCU-124_170510C 05/10/17 15:22
Specific Gravity 60/60F	1.020	unitless	100		85	115			
<b>Lab ID:</b> G17050204-001BDUP	Sample Duplicate								Run: BAL-ACCU-124_170510C 05/10/17 15:28
Specific Gravity 60/60F	1.010	unitless					0.0	1	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/17/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E903.0</b>								Batch: RA226-8496R		
<b>Lab ID: LCS-RA226-8496</b>	Laboratory Control Sample			Run: G5000W_170510C			05/16/17 09:00			
Radium 226		8.8	pCi/L	87		80	120			
<b>Lab ID: MB-RA226-8496</b>	3	Method Blank		Run: G5000W_170510C			05/16/17 09:00			
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
<b>Lab ID: C17050223-001CMS</b>	Sample Matrix Spike			Run: G5000W_170510C			05/16/17 09:00			
Radium 226		24	pCi/L	83		70	130			
<b>Lab ID: C17050223-001CMSD</b>	Sample Matrix Spike Duplicate			Run: G5000W_170510C			05/16/17 09:00			
Radium 226		26	pCi/L	90		70	130	6.3	20	

**Qualifiers:**

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/15/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: A2320 B</b> Analytical Run: MANTECH_170508B										
<b>Lab ID: ICV-9186</b>	Initial Calibration Verification Standard									
pH		6.89	s.u.	0.010	100	98	102			05/08/17 10:29
<b>Method: A2320 B</b> Batch: R222802										
<b>Lab ID: MBLK</b>	Method Blank									
Alkalinity, Total as CaCO3		1	mg/L	1						Run: MANTECH_170508B 05/08/17 14:04
<b>Lab ID: LCS_170118</b>	Laboratory Control Sample									
Alkalinity, Total as CaCO3		254	mg/L	5.0	101	90	110			Run: MANTECH_170508B 05/08/17 14:15
<b>Lab ID: C17050226-003ADUP</b>	Sample Duplicate									
Alkalinity, Total as CaCO3		72.7	mg/L	5.0				1.7	10	Run: MANTECH_170508B 05/08/17 14:53

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/15/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> A2510 B										Batch: R222812
<b>Lab ID:</b> SC 100		Initial Calibration Verification Standard				Run: PHSC_101-C_170509A				05/09/17 08:52
Conductivity @ 25 C		104	umhos/cm	5.0	104	90	110			
<b>Lab ID:</b> SC 5000		Initial Calibration Verification Standard				Run: PHSC_101-C_170509A				05/09/17 08:55
Conductivity @ 25 C		5040	umhos/cm	5.0	101	90	110			
<b>Lab ID:</b> SC 20000		Initial Calibration Verification Standard				Run: PHSC_101-C_170509A				05/09/17 08:58
Conductivity @ 25 C		20600	umhos/cm	5.0	103	90	110			
<b>Lab ID:</b> SC 50000		Initial Calibration Verification Standard				Run: PHSC_101-C_170509A				05/09/17 09:01
Conductivity @ 25 C		51800	umhos/cm	5.0	104	90	110			
<b>Lab ID:</b> MBLK		Method Blank				Run: PHSC_101-C_170509A				05/09/17 13:08
Conductivity @ 25 C		5	umhos/cm	2						
<b>Lab ID:</b> C17050215-001ADUP		Sample Duplicate				Run: PHSC_101-C_170509A				05/09/17 13:14
Conductivity @ 25 C		14700	umhos/cm	5.0				0.5	10	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.





# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/15/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: A2540 C</b>								Batch: TDS170508A		
<b>Lab ID: MB-1_170508A</b>		Method Blank								
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	7						05/08/17 11:15
<b>Lab ID: LCS-2_170508A</b>								Run: BAL-18_170508B		
Solids, Total Dissolved TDS @ 180 C		1090	mg/L	11	98	90	110			05/08/17 11:16
<b>Lab ID: C17050214-011A DUP</b>								Run: BAL-18_170508B		
Solids, Total Dissolved TDS @ 180 C		4980	mg/L	40				0.3	5	05/08/17 11:19

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/15/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> A4500-H B								Analytical Run: PHSC_101-C_170506A		
<b>Lab ID:</b> pH 6.86		Initial Calibration Verification Standard								05/06/17 11:24
pH		6.88	s.u.	0.010	100	98	102			
<b>Method:</b> A4500-H B										Batch: R222744
<b>Lab ID:</b> C17050214-005ADUP		Sample Duplicate								05/06/17 12:28
pH		7.44	s.u.	0.010				0.0	3	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 05/15/17

**Project:** Lost Creek Class I

**Work Order:** C17050215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E300.0</b>								Analytical Run: IC3-C_170512A		
<b>Lab ID: ICV</b>	2	Initial Calibration Verification Standard								05/12/17 10:03
Chloride		10.7	mg/L	1.0	107	90	110			
Sulfate		41.1	mg/L	1.0	103	90	110			
<b>Method: E300.0</b>								Batch: R223011		
<b>Lab ID: ICB</b>	2	Method Blank					Run: IC3-C_170512A			05/12/17 10:19
Chloride		ND	mg/L	0.01						
Sulfate		ND	mg/L	0.05						
<b>Lab ID: LFB</b>	2	Laboratory Fortified Blank					Run: IC3-C_170512A			05/12/17 10:35
Chloride		10.6	mg/L	1.0	106	90	110			
Sulfate		41.5	mg/L	1.0	104	90	110			
<b>Lab ID: C17050214-004AMS</b>	2	Sample Matrix Spike					Run: IC3-C_170512A			05/12/17 22:57
Chloride		44.7	mg/L	1.0	96	80	120			
Sulfate		205	mg/L	1.0	97	80	120			
<b>Lab ID: C17050214-004AMSD</b>	2	Sample Matrix Spike Duplicate					Run: IC3-C_170512A			05/12/17 23:13
Chloride		44.8	mg/L	1.0	97	80	120	0.3	20	
Sulfate		205	mg/L	1.0	97	80	120	0.0	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# Work Order Receipt Checklist

UR Energy USA Inc

C17050215

Login completed by: Dorian Quis

Date Received: 5/5/2017

Reviewed by: Kasey Vidick

Received by: kmk

Reviewed Date: 5/8/2017

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	5.4°C No Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Contact and Corrective Action Comments:

None



Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record

www.energylab.com

Page 1 of 1

## Account Information (Billing Information)

Company/Name: UP-ENERGY  
 Contact: MIKE GAITHER  
 Phone: 307 265-2373  
 Mailing Address: 5000 ENTERPRISE DR SUITE 200  
 City, State, Zip: CASPER WY 82609  
 Email: MIKE.GAITHER@UP-ENERGY.COM  
 Receive Invoice  Hard Copy  Email  
 Receive Report  Hard Copy  Email  
 Purchase Order: 51891

## Report Information (if different than Account Information)

Company/Name: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Receive Report  Hard Copy  Email  
 Special Report/Formats:  
 LEVEL IV  NELAC  EDD/EDT (contact laboratory)  Other

## Comments

\_\_\_\_\_

## Project Information

Project Name, PWSID, Permit, etc.: LOST CREEK CLASS I  
 Sampler Name: MDE/JP Sampler Phone: \_\_\_\_\_  
 Sample Origin State: WY EPA/State Compliance  Yes  No  
 MINING CLIENTS, please indicate sample type.  
 \*If ore has been processed or refined, call before sending.  
 Byproduct 11 (e)2 material  Unprocessed ore (NOT ground or refined)\*

**Matrix Codes**  
 A - Air  
 W - Water  
 S - Solids  
 V - Vegetation  
 B - Bioassay  
 O - Other  
 DW - Drinking Water

Analysis Requested	Matrix (See Codes Above)	Number of Containers	Collection		Date/Time	Signature
			Date	Time		
PH / COND.	W	4	5/4/2017	1000		
RICHARDS / CARB	W					
CHLORIDE	W					
SULFATE	W					
HYDROGEN SULFIDE	W					
SPECIAL GRAVITY	W					
TDS	W					
AS <sup>3</sup> SE <sup>1</sup> V, U (cont)	W					
Pa-226 (cont)	W					

All turnaround times are standard unless marked as RUSH.  
 Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

## Sample Identification

(Name, Location, Interval, etc.)  
1 DDW - INTERSTATE

## Matrix

(See Codes Above)  
W

## ELI LAB ID

Laboratory Use Only  
C17050215

Custody Reinquished by (print): M. GAITHER Signature  
 Reinquished by (print): \_\_\_\_\_ Signature

Date/Time: 5/5/2017 1433 Signature  
 Date/Time: \_\_\_\_\_ Signature

Received by (print)

Received by Laboratory (print)

Date/Time

Date/Time

Signature

Signature

Shipped By: homo Cooler ID(s): eli Custody Seals: Y N C B Intact: Y N Receipt Temp: 5.4 °C On Ice: Y N

Amount: \_\_\_\_\_ \$  
 Payment Type: CC Cash Y N Check

Receipt Number (cash/check only): \_\_\_\_\_

Amount: \_\_\_\_\_ \$  
 Payment Type: CC Cash Y N Check

Receipt Number (cash/check only): \_\_\_\_\_

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.