

Linton, Ron

From: Scott Schierman (USA - Casper) <Scott.Schierman@uranium1.com>
Sent: Friday, July 13, 2018 10:15 AM
To: Linton, Ron
Subject: [External_Sender] Written notification of UCL parameters for 4MW15
Attachments: 4MW15 NRC written notification 7.6.18.pdf

Ron

As discussed on July 2, 2018 please find the written notification that monitor well 4MW15 has exceed 2 of the 3 UCL parameters for the second quarter sampling event.

If you have any questions or need additional information please contact.

Regards,

Scott Schierman | HSE Manager
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July 12, 2018

Ron Linton, Project Manager
US Nuclear Regulatory Commission
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials
Environmental Management Programs
11545 Rockville Pike
Rockville, MD 20852-2738

**RE: Willow Creek ISR Project- Permit to Mine No. 478
Notification that Monitor Well 4MW15 Exceeding UCL Parameter Limits**

Dear Mr. Linton:

Uranium One is providing written notification that monitor well 4MW84 has exceeded two UCL parameters and Uranium One will provide quarterly reports until the elevated UCL parameters have been mitigated as specified in License Condition 11.2. Please consider this letter written notification for Monitor Well 4MW15. Uranium One informed Ron Linton by phone that 4MW15 had exceeded two UCL parameters on Monday, July 2, 2018.

Monitor Well 4MW15

A routine quarterly sample of Well 4MW15 exceeds two of the three Upper Control Limits (UCLs) on June 29, 2018. A second confirmation sample was taken on June 30, 2018. This sample also exceeded two of the three UCL parameters. In accordance with permit requirements, the sampling frequency has been increased to weekly, and will continue until three (3) consecutive weekly samples indicate that no more than one UCL is exceeded.

Corrective actions taken to address the elevated UCL parameter concern are as follows: Wells 4R95-3 (739 feet to the southeast), 4R83-1 (475 feet to the east), 4R88-1 (528 feet to the southeast), 4S79-2 (528 feet east), 4Q79-1 (470 feet east), 4P76-1 (470 feet east northeast) and 4R85-2 (475 feet east south east) are being pumped at a combined rate of 25 gpm. The effects of these corrective actions will be monitored and adjusted as required until at least two UCL parameters are below the established UCL for three consecutive weeks.

Table 1 provides the analytical data for the samples that confirmed two UCL parameters limits have been exceeded in monitor well 4MW15.

**Table 1: Summary of Monitor Well Results
MINE UNIT 4
MONITOR WELL 4MW15**

SAMPLE DATE	CHLORIDE (UCL 11.1 mg/l)	ALKALINITY (UCL 116.9 μ mhos/cm)	CONDUCTIVITY (UCL 825 mg/l)	pH	WATER LEVEL	U ₃ O ₈ ppm
6/29/2018	15.4	128.2	733	8.1	4560.0	NA
6/30/2018	15.0	125.8	808	8.1	4557.5	0.46
7/02/2018	15.8	132.6	744	8.1	4559.3	NA

If you have any questions or need additional information please contact at (307) 233-6330 or email at scott.schierman@uranium1.com.

Sincerely,



Scott Schierman
HSE Manager/RSO