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# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

September 20, 2011

TO: File

THRU: Steve Christensen, Permit Supervisor

FROM: April A. Abate, Environmental Scientist III

SUBJECT: 2011 1st Quarter Water Monitoring, Andalex Resources, Centennial Mine, C/007/0019, Task ID #3745

The Centennial Mine is currently in temporary cessation. No mining or coal processing activities currently take place there, nor is the site in active reclamation. Sections 711.300 pages 7-2 through 7-10 and Appendix L of the MRP pertain to water monitoring. Water sampling locations are shown on Figure IV-11.

### 1. Were data submitted for all of the MRP required sites?

#### Springs

YES  NO

The spring in Deadman Canyon below the confluence of the Left and Right Forks of Deadman Canyon is sampled quarterly.

The spring reported no flow during the first quarter of 2011.

#### Streams

YES  NO

Stream sample 18-3 at the left fork of Deadman wash has not flowed since May 2008, which was right around the same time the mine shut down. Stream sample 18-4 has not flowed since 2005. Both of these sample locations are surface water points located below the mine.

#### Wells

YES  NO

Well #1 was sampled during the 1st quarter of 2011 on March 24, 2011. The pump in the well was not working this quarter. A groundwater sample was collected without the use of the pump.

#### UPDES

YES  NO

All UPDES locations were monitored monthly in accordance with the permit. No discharge from any of the sample locations was reported for the 1st quarter of 2011. Discharge has not been reported from any of the UPDES locations since June 2008, which was right around the same time the mine shut down.

**2. Were all required parameters reported for each site?**

**Springs** YES  NO

Not applicable this quarter.

**Streams** YES  NO

Not applicable this quarter.

**Wells** YES  NO

**UPDES** YES  NO

Not applicable this quarter.

**3. Were any irregularities found in the data?**

**Springs and Pond** YES  NO

Not applicable this quarter.

**Streams** YES  NO

Not applicable this quarter.

**Wells** YES  NO

Total and dissolved iron concentrations in Well #1 were extremely high this quarter. This is likely due to corrosion from the mechanical issues that the pump has had over the past few months. These iron concentrations are expected to decrease in subsequent quarters.

**UPDES** YES  NO

Not applicable this quarter.

**4. Did the Permittee make a timely submittal of all data, including initially missing data, and satisfactorily explain irregular data?** YES  NO

**5. Does the Mine Permittee need to submit more information to fulfill this quarter's monitoring requirements?** YES  NO

**6. Based on your review, what further actions, if any, do you recommend?**

None. The operator has reported to the Division that the pump has been repaired and is now functioning properly since the March 2011 samples were collected.

**7. Follow-up from last quarter, if necessary.**

None