

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

June 24, 2020

TO: Internal File

THRU: Steve Christensen, Coal Program Manager 

FROM: Kendra Hinton, Environmental Scientist 

SUBJECT: 4th Quarter 2019 Water Monitoring, Andalex Resources, Mine, C/007/0019, Task ID #6100

The Centennial Mine is in temporary cessation. No mining or coal processing activities take place. Water monitoring program information is found in Chapter 7 Sections 711.300 pages 7-2 through 7-10 and Appendix L of the MRP. Water sampling locations are shown on Figure IV-11.

The UPDES permit covers this site under Andalex Resources, Inc. - Tower Mine. The mine is currently covered under a general coal UPDES permit. No outfalls are discharging. If the mine portals begin discharging, allowable effluent limitations will be exceeded. At that time the Centennial Mine will need to obtain an individual UPDES permit.

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

Springs YES NO

The spring in Deadman Canyon – S18-1 below the confluence of the Left and Right Forks of Deadman Canyon is sampled quarterly.

The spring did not flow during Q4 2019.

Streams YES NO

Two stream locations are required for quarterly sampling: Site 18-3 is located in the Left Fork of Deadman Canyon above the confluence with the Right Fork of Deadman Canyon and flows on an ephemeral basis. Site 18-4 represents the right fork of Deadman Canyon below the main surface facilities.

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 until Q2 2019, but not in Q3 or Q4 2019. Both of these sample locations are surface water points located below the mine.

The stream sampling locations did not flow during Q4 2019.

Wells

YES NO

Well #1 is located in Deadman Canyon and is screened in the Aberdeen Sandstone below the coal seam.

Flow GMP values given in column P represent the rate at which the well was pumped. The depth value is taken before the pump is turned on.

UPDES

YES NO

A total of four UPDES discharge outfalls are permitted at the Centennial Mine. Outfall 001 is the sediment pond discharge for catch basin B. Outfall 002 is mine discharge from the Pinnacle Mine portion of the permit area. Outfall 003 is Sediment Pond E discharge or the second sediment pond in the permit area. Outfall 004 is discharge from the Aberdeen Mine. All outfalls are required to be monitored on a monthly basis in accordance with UPDES Permit #UTG040000.

No discharge from any of the outfall locations was reported for the quarter. Discharge has not been reported from any of the UPDES locations since June 2008, about the same time the mine shut down.

2. Were all required parameters reported for each site?

| | | |
|----------------|---|-----------------------------|
| Springs | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Streams | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Wells | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| UPDES | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |

3. Were any irregularities found in the data?

| | | |
|-------------------------|------------------------------|--|
| Springs and Pond | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| Streams | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| Wells | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| UPDES | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |

No outfalls discharged during 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?

N/A

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

None