



**COLORADO**  
Division of Water Resources  
Department of Natural Resources

John W. Hickenlooper  
Governor

Robert Randall  
Executive Director

Kevin G. Rein, P.E.  
Director/State Engineer

March 22, 2018

Aggregate Industries-WCR, Inc.  
1687 Cole Boulevard, Suite 300  
Golden, CO 80401  
c/o Justin Stoeber (Tetra Tech Inc.) [Justin.Stoeber@tetrattech.com](mailto:Justin.Stoeber@tetrattech.com)

**RE: SLURRY WALL LINER APPROVAL**

**Hazeltine Mine Reservoir (WDID 0203381)**

**Hazeltine Mine Pit, DRMS M-2004-031 (WDID 0203030)**

**SW1/4 of the NE1/4, SE1/4 of the NE1/4 of Section 4, T7N, R69W, WATER DIVISION 1,  
WATER DISTRICT 2**

Dear Mr. Stoeber:

The purpose of this letter is to approve the lining of the Hazeltine Mine Reservoir. This reservoir is located in the SW1/4 and the NW1/4 of the SE1/4 of Section 9, Township 2 South, Range 67 West of the 6<sup>th</sup> P.M. and is a part of the Hazeltine Mine gravel pit (DRMS M-2004-031). Hazeltine Mine Reservoir was lined with a soil bentonite slurry wall and was previously tested and approved on May 25, 2016 as meeting the design standard. The installation of the slurry wall caused ground water mounding into an adjacent property, known as the Orr property. The operator constructed a permanent drain ("Orr drain") to reduce ground water levels from Orr property into the Hazeltine Mine Pit. Construction of the Orr drain disturbed a portion of the slurry wall, therefore the slurry wall of the reservoir was re-tested to analyze the impact of the construction within the reservoir wall and re-verify the previously approved liner once again met the design standard. The test duration was modified to 45-days. The liner test commenced on October 4, 2017 and concluded On November 20, 2017. A site inspection was performed by our office on October 6, 2017 to review site conditions and preliminary leak test data.

Your report received on March 12, 2018 provides the liner summary and the 45-day leak test result. The test data provided indicates that **the reservoir has been lined to the design standard** referenced in the August 1999 State Engineer Guidelines for Lining Criteria for Gravel Pits (1999 SEO Guidelines). **Meeting the design standard requires that during reservoir operations all water inflows and outflows for the liner perimeter enclosed area be accounted for on a monthly basis.**

With this liner approval, the Hazeltine Mine Reservoir is once again classified as a lined reservoir in accordance with the 1999 SEO Guidelines. Water shall not be impounded in the reservoir except pursuant to lawful diversions allowed by statute or decree. At all other times, all inflow of water into the reservoir from any source, including precipitation and ground water inflows shall be removed to prevent illegal storage of water. Prior to ANY use of this site, the owner or operator will need to coordinate with Brent Schantz, River Operation Coordinator and Jorge Vidal, District 2 Water Commissioner, to review operations, measurement structures, stage-storage curves, and accounting.



Please contact me at the number above if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read "Ioana Comaniciu", written over a horizontal line.

Ioana Comaniciu, P.E.  
Water Resource Engineer

ec: Brent Schantz, River Operations Coordinator ([Brent.Schantz@state.co.us](mailto:Brent.Schantz@state.co.us))  
Jorge Vidal, Water Commissioner, District 2 ([Jorge.Vidal@state.co.us](mailto:Jorge.Vidal@state.co.us))  
Louis Flink, Diversion Records Coordinator ([Louis.Flink@state.co.us](mailto:Louis.Flink@state.co.us))  
WDID File (0203381, 0203030)