

# Lake 4, West Lake and A-Frame Dam Rehabilitation

## Weekly Construction Update Report

10/21/2019 to 10/25/2019



**Date:** 10/30/2019

**Project Owners:** Boulder County and St. Vrain & Left Hand Water Conservancy District

**Location:** Boulder County Open Space west of Hygiene, CO

**Contractor:** Kirkland Construction

**Weather & Site Conditions:** Clear and cool, 2" of snow on night of 10/23  
good ground conditions otherwise

**Update by:** Obadiah Broughton, Boulder County

### Work in Progress/Completed

1. Clearing and grubbing was mostly completed in the Lake 3 and Lake 4 sediment areas.
2. Lake 4 Dam spillway on the West Lake side was staked out and topsoil was salvaged and stockpiled.
3. West Lake Dam embankment excavation continued and the sub-grade for West Lake outlet structure was excavated.
4. A single lane haul road was completed across the bottom of West Lake to the Lake 4 dam breach and embankment.
5. Lake 4 Dam was cut into in the breach to determine the location of the slurry wall with design engineer (EA) oversight. It was determined further investigation of slurry wall location is warranted.
6. Continued dewatering operations to remove nuisance water in Lake 3 and Lake 4.
7. Surveying continued to establish construction stakeout and baseline contour topo.

### Upcoming Work *(One to three week look ahead)*

1. Clearing and grubbing in the lake bottoms and all work areas and strip/stockpile topsoil as appropriate.
2. Continued demolition/excavation of West Lake Dam embankment and begin concrete forming for West Lake outlet structure.
3. Begin excavating in Lake 4 and Lake 3 work areas.



Looking west on 10/21: Excavation of West Lake Dam and sub-grade for outlet structure.



Looking west on 10/21: Excavation of West Lake Dam and sub-grade for outlet structure in process.

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4. Demo existing Lake 4 manhole.
5. Continue to build haul roads in lake bottoms and adjacent to Lake 4 Dam spillway to facilitate sediment removal and work.
6. Begin Lake 4 sediment excavation.
7. Continued dewatering operations to remove nuisance water in Lake 3 and Lake 4.
8. Surveying: more construction stake out.
9. Continued mobilization of equipment and materials as needed.

### Additional Notes

1. Weekly construction process meeting occurred on Tuesday 10/22.
2. Weekly water quality testing occurred on Tuesday 10/24 at the dewatering terminal discharge outfall into St. Vrain Creek.
3. Project website for updates and information:  
<https://www.bouldercounty.org/open-space/management/lake-4-west-lake-a-frame-pond/>



Looking north on 10/25: Excavation to determine slurry wall location within Lake 4 Dam embankment.



Looking west on 10/22: Clearing and grubbing and topsoil salvage on Lake 4 Dam spillway.



Looking west on 10/22: The downstream extent of the Lake 4 Dam spillway after clearing and grubbing.

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Looking east on 10/22: Excavated sub-grade for West Lake outlet structure.



Looking east on 10/22: Excavated sub-grade for West Lake outlet structure.



Looking east on 10/24: Lake 4 sediment area cleared and grubbed.



Looking southwest on 10/24: Constructing a haul road across West Lake to the Lake 4 breach area.