

Lake 4, West Lake and A-Frame Dam Rehabilitation

Weekly Construction Update Report

10/28/2019 to 11/1/2019



Date: 11/8/2019

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: Snow on ground, cold weather

Update by: Obadiah Broughton, Boulder County

Work in Progress/Completed

1. Snow event on Tuesday 10/29, and Wednesday 10/30. Kirkland did not work, though dewatering continued.
2. Lake 4 Dam excavation at the dam breach has begun.
3. Lake 4 Dam existing manhole and outlet pipe was demo'd and excavated.
4. West Lake Dam embankment excavation for sub-grade for West Lake outlet structure was paused do to snow conditions.
5. Lake 4 Dam slurry wall was located by contractor. Needs field verification by design engineer (EA).
6. Continued dewatering operations to remove nuisance water in Lake 3, Lake 4 and West Lake.

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

1. Clearing and grubbing of the Lake 3 embankment 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 to subgrade in Lake 3 work area.



Looking southwest on 10/31: Excavation of Lake 4 Dam and demo of manhole structure.



Looking northwest on 10/31: Excavation of Lake 4 Dam and manhole.

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4. Finalize sub-grades and foundations for West Lake tower and outlet pipe. Prepare forms, rebar and pour concrete.
5. Finalize sub-grades and foundations for Lake 4 Dam towers. Prepare forms, rebar and pour concrete.
6. Import clay material to project site for West Lake and Lake 4 dam reconstruction.
7. Continue to build haul roads in lake bottoms and adjacent to Lake 4 Dam spillway to facilitate sediment removal and work.
8. Begin Lake 4 sediment excavation for Lake 3 embankment reconstruction.
9. Continued dewatering operations to remove nuisance water from project site.

Additional Notes

1. Weekly construction process meeting on 10/29 was canceled due to weather.
2. Weekly water quality testing occurred on Friday Nov 1st 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/>



10/28: West Lake Dam site.



Looking west on 10/31: Identification of the slurry wall in the southside of the Lake 4 embankment breach.



Looking southwest on 10/31: Excavation of Lake 4 Dam of manhole structure and outlet pipe.

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10/31: Demo's Lake 4 manhole and outlet pipe.



10/31: Riprap salvaged from excavation limits. Northside of breach on Lake 4.



11/1: Exposed existing Lake 4 outlet pipe.



Looking east on 10/28: Dewatering discharge outfall above the St. Vrain Creek.