

# Reach 4b SSV1 and SSV2

## Weekly Construction updates



**Date:** 9/6/2017

**By:** Prashant KC

**Location:** South St. Vrain, West of Lyons, CO

**Project Sponsor:** Boulder County

### Work in Progress/Completed

1. Completed Construction of riffle crest , face and pool at main channel St and 70+49.
2. Completed mass grading, floodplain benching and realignment of proposed main channel between St. 66+50 to 77+00.
3. Completed Boulder toe bank stabilization between main channel St. 66+00 to 70+80.
4. Willow cuttings in boulder toe in progress.
5. Completed installation of Type 3 Large woody structure at 74+80.
6. Main channel mass grading and floodplain grading right bank between St. 78+00 to 82+00 in progress.
7. Completed three Knick point stabilization rock structures in overflow channel E.
8. Main channel substrate replacement, mass grading between main channel St. 88+00 to 92+00 in progress.
9. Ongoing rock screening operation at St. 85+00 to generate rock mix of specified classes from main channel St. 88+00 to 92+00 and 78+00 to 82+00 .
10. Restored access to overflow channel E construction.
11. Chipping operation to be mixed in floodplain with soil conditioning in progress.
12. Soil Conditioning in constructed floodplain between St. 66+50 to 71+00 in progress



Downstream View: Riffle face construction at main channel St. 70+49



Downstream View: Installation of Type 3 Large woody structure at main channel St. 74+80 right bank

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### Upcoming Work

1. Continue main channel substrate replacement, mass grading between main channel St. 83+00 to 92+00 in progress.
2. Continue main channel mass grading and floodplain grading right bank between St. 78+00 to 83+00 in progress.
3. Install Type 5 Large woody Structure at main channel St. 72+20.
4. Install two Type 6 Large woody Structure adjacent to main channel St. 75+60
5. Construction of Riffle crest , face and pool at main channel St 73+19 and 75+89.
4. Stripping native streambed from existing main channel for replacement between main channel St. 88+00 to 92+00 .
5. Overflow channel E grading and installation of Knick point stabilization rock structures at St. 5+95.
6. Willow Cuttings in existing riprap right bank between main channel St. 44+50 to 47+00.
7. Continue construction generated inert material haul offsite to Quarry.
8. Install Beaver Dam analogue posts in overflow channel E St. 3+30 and 1+25.
9. Continue survey of channel centerline ,bankline , project limits, instream and floodplain features and as-builts.

### Other Notes

1. Proactive planning for revegetation elements .



Downstream view: Main channel and floodplain grading between St. 78+00 to 82+00



Downstream View: Willow cuttings in Boulder toe bank stabilization between main channel St. 66+00 to 70+80

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Dust abatement around main staging area and internal access routes.



Unclassified excavation disposal and compaction at Quarry site.



Downstream View: Completed Knick point stabilization rock structures in overflow channel E



Rock screening operation at main channel St. 85+00



**COLORADO**  
Colorado Water Conservation Board  
Department of Natural Resources



**Parks & Open Space**

**USDA**  
United States Department of Agriculture  
Natural Resources Conservation Service