

Reach 4b SSV1 and SSV2

Weekly Construction updates



Date: 8/23/2017

By: Prashant KC

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

Project Sponsor: Boulder County

Work in Progress/Completed

1. Relocation of existing power pole at main channel St. 87+50 and 71+60 completed.
2. ACOE NWP permit for non-EWP areas obtained and work commenced.
3. Completed two floodplain Type 5 large woody structure adjacent to main channel St. 66+90.
4. Completed the installation of Type 3 Large woody structure at 61+20.
5. Completed the installation of Type 1 Large woody structure at 63+95.
6. Imported 29 Large woody material from Parrish Ranch to be incorporated in final design modification.
7. Soil conditioning in overflow channel C in progress.
8. Construction of floodplain sill at overflow channel C St. 10+50 and 5+20 completed.
9. Restoration of access and staging areas for overflow channel F construction in progress.
10. Mature Willow transplant in floodplain bench adjacent to main channel St. 63+00 in progress.
11. Construction of riffle structure at main channel St. 65+09 and 67+50 in progress.
12. Completed construction of two Knick point stabilization rock structures in overflow channel D.
13. Flood plain benching adjacent to main channel St. 63+00 and 67+00. right bank.
14. Longitudinal profile grading (fill) of overflow channel D completed.



Completed the installation of Type 3 Large woody structure at 61+20



Type 5 large woody structure at main channel St. 66+90.

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15. Mass grading of proposed main channel alignment between St. 66+50 to 77+00.
16. Floodplain benching, mass grading and salvaging onsite embedded rocks for several design structures between main channel St. 66+50 to 81+50.
17. Rock screening operation in progress to generate rock mix of specified classes from overflow channel B.

Upcoming Work

1. Establish construction access, channel grading, bank contour and Knick point stabilization rock structures in overflow channel E.
2. Install Type 1 Large woody Structure at main channel St. 68+90.
3. Construction of Riffle crest, face and pool at main channel St and 70+50 and 73+19.
4. install Type 1 Large woody structure at main channel 72+00
4. Stripping native streambed from existing main channel for replacement between main channel St. 66+50 to 77+00.
5. Install Beaver Dam analogue posts in overflow channel E St. 3+30 and 1+25.
6. Continue removing and harvesting flagged trees (6-12" and 12" + DBH).
7. Continue survey of channel centerline, bankline, project limits, instream and floodplain features and as-builts.

Other Notes

1. Finalizing comprehensive design plan and prioritization of large woody structures.



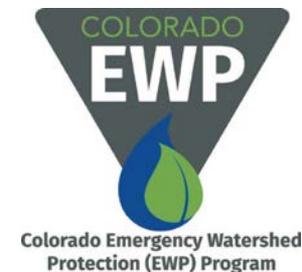
Downstream view: Knick point stabilization rock structures in overflow channel C.



Flood plain benching adjacent to main channel St. 63+00 and 67+00, right bank

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Upstream view: Mass grading of proposed main channel alignment between St. 66+50 to 77+00



Upstream view: Mass grading of proposed main channel alignment between St. 66+50 to 77+00



Imported LWM from Parrish ranch.



Willow transplant at the confluence of OFC C and main channel St 67+00



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