

Reach 4b SSV1 and SSV2

Weekly Construction updates



Date: 10/12/2017

By: Prashant KC

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

Project Sponsor: Boulder County

Work in Progress/Completed

1. Flipped main channel to design alignment at St 93+20 at upstream confluence with over channel A.
2. Boulder toe bank stabilization with cobble as filler and face material completed between main channel St. 66+50 to 68+70 right bank.
3. Corrections made to floodplain to acquire design grades between main channel St. 64+00 to 77+50.
4. Spot checks and grade verifications to initiate seeding and plantings in progress.
5. Completed Installation of instream Type 2 large woody structure (priority 1) at main channel St. 90+40 right bank.
6. Completed Installation of Type 5 large woody structure (priority 2) adjacent to main channel St. 79+10 left floodplain.
7. Construction of riffle crest , face and pool at main channel St.91+43 and 88+02 in progress.
8. Fine grading of overflow channel A after main channel realignment in progress.
9. Completed rock sill in overflow channel A St. 8+95.
10. Floodplain benching, fine grading and soil conditioning between main St. 73+50 to 94+75 in progress.
11. Completed construction of floodplain sill in overflow channel B in progress.
12. Fine Grading i.e. low flow , pool and bankline between main channel St. 94+50 to 99+00 in progress.



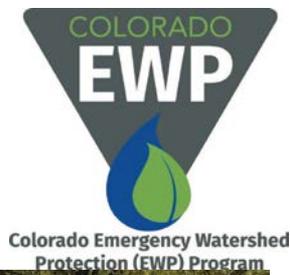
Downstream View: Flipping main channel to design alignment at St .93+20



Downstream View: Corrected right bank boulder toe bank stabilization between main channel St. 66+50 to 68+70 and adjacent floodplain.

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13. Cobble toe bank stabilization feature between main channel St. 87+40 to 91+29 right bank in progress.
14. Kick-off meeting for revegetation planning and implementation conducted.

Upcoming Work

1. Final formal walk through with EWP QA team of main and overflow channel instream features , LWS, bank line , channel cross section and bank stabilization methods.
2. Complete installation of instream Type 2 large woody structure (priority 1) at main channel St. 89+90 right bank and Type 6 at St 88+00.
3. Construction of riffle crest , face and pool at main channel St. 83+80 and 78+59.
4. Complete boulder toe bank stabilization with cobble as filler and face material between main channel St. 92+94 to 94+30 left bank.
5. Complete floodplain benching, fine grading and soil conditioning between main St. 73+50 to 94+75.
6. Complete floodplain sill in overflow A at St. 10+80.
7. Construction of overflow rock ramp structure in overflow channel A and B at St. 4+98 and 5+05 respectively.
8. Complete main channel fine grading , bank contours , low flow profile and instream features between main channel St 60+50 to 94+50.
9. Continue survey of channel centerline ,bankline , project limits, instream and floodplain features and as-builts.

Other Notes

1. Verification of instream features and floodplain grading.



Downstream view: Type 2 large woody structure at main channel St. 90+40 right bank .



Downstream View: overflow channel A bedform (previous main channel) after main channel realignment .

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Downstream View: Type 2 large woody structure at main channel St. 90+40 right bank in progress



Downstream View: Crew saving fish in overflow channel A (previous main channel) after main channel realignment..



Downstream View: Soil Conditioning in progress in right floodplain adjacent to main channel St. 83+50.



Upstream View: Completed Floodplain benching, fine grading and soil conditioning between main St. 86+00 to 90+50.



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