

Reach 4b SSV1 and SSV2

Weekly Construction updates



Date: 10/5/2017

By: Prashant KC

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

Project Sponsor: Boulder County

Work in Progress/Completed

1. Site visit with EWP QA team to go over construction progress in preparation to revegetation effort.
2. Floodplain soil conditioning between main channel St. 94+75 to 99+80 completed.
3. Construction of riffle crest , face and pool at main channel St.91+43 and 88+02 in progress.
4. Completed installation of instream Type 1 large woody structure (priority 1) at main channel St. 92+50 left bank.
5. Installation of instream Type 2 large woody structure (priority 1) at main channel St. 89+90 and 90+40 right bank in progress.
6. Staging large woody materials and specified rock mix at different allocated areas for ease of construction .
7. Floodplain benching, fine grading and soil conditioning between main St. 73+50 to 94+75 in progress.
8. Construction of floodplain sill in overflow channel B in progress.
9. Completed fine grading and soil conditioning of revised overflow channel C profile.
10. Fine Grading i.e. low flow , pool and bankline between main channel St. 94+50 to 99+00 in progress.
11. Cobble toe bank stabilization feature between main channel St. 99+40 to 97+00 right bank completed.
12. Preparation for seeding and plantings in riparian and upland areas per construction plan.



Upstream View: EWP QA team's site visit at main channel St. 90+50



Floodplain soil conditioning between main channel St. 94+75 to 99+80

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13. In-situ density test of material disposed in Quarry in progress.

Upcoming Work

1. Complete installation of instream Type 2 large woody structure (priority 1) at main channel St. 89+90 and 90+40 right bank.
2. Construction of Type 1 (priority 1) large woody structure at left bank main channel St. 85+40.
3. Complete construction of riffle crest , face and pool at main channel St.91+43 and 88+02.
4. Construction of riffle crest , face and pool at main channel St.88+02, 83+80 and 78+59.
5. Complete floodplain benching, fine grading and soil conditioning between main St. 73+50 to 94+75.
6. Complete floodplain sill in overflow channel B and A .
7. Construction of rock outfall 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 construction generated inert material haul offsite to Quarry.
10. 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.
2. Field fit of several construction elements to match existing site condition.



Downstream view: Construction of riffle structure at main channel St.91+43 .



Downstream View: installation of instream Type 1 large woody structure (priority 1) at main channel St. 92+50 left bank

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Downstream View: Floodplain benching, fine grading and soil conditioning between main St. 73+50 to 82+00 in progress.



Downstream View: Completed fine grading and soil conditioning of revised overflow channel C profile.



Downstream View: Fine grading of main channel profile between St 94+50 to 99+00.



Upstream View Floodplain benching, fine grading and soil conditioning between main St. 73+50 to 81+75.



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