

# SVR3 EWP Stream Restoration

Project Weekly Construction Notes: 2/05 to 2/09/2018



Date: 2/13/2018

By: Sharla Lovern and Obadiah Broughton – Boulder County

EA – General Design Engineering Firm, ERC – Stream Design Engineering Firm,

ecos – Vegetation Design Firm, ACC Mountain West -- Contractor

Location: St. Vrain Reach 3 – multiple work sites

Project Sponsor: Boulder County

## Work in Progress/Completed:

1. Discussion about ACC selected means and methods meeting specifications for topsoil/amendment incorporation and seeding;
2. Breach 1 embankment replacement/repair: continued clay core installation and riprap placement as well as embankment placement;
3. Hauling and mixing topsoil and compost for future placement on finished areas of work including (1) riprap upstream of Hygiene Road, (2) stream banks within stream restoration reach upstream of Hygiene Road and (3) Breach 7 embankment repair;
4. Began delivery of wood straw mulch to Hepp Site;
5. Completed installation of Type D Bank Stabilization (root wads) between Sta. 43+40 and Sta. 45+50. Elevation of this Type D structure was lowered 6" to provide additional natural variability in the channel as well as uncompromised bank protection;
6. Began harvesting root wads from locations on BCPOS properties near the Breach 1 and Ramey project sites, difficulty with rootwads not meeting the construction specifications for rootwad diameter;
7. Continued channel grading and realignment for stream restoration Sta. 36+00 to Sta. 57+50;
8. NRCS QA visit to project on 2/7/18;
9. Visit to Breach 2 location to review potential staging areas and discuss ways/locations to limit impacts to Preble's habitat;



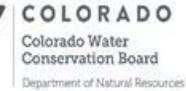
2-5-18: Tillage test plots installed by ACC and reviewed by BCPOS and ecos to determine if specifications were met.



2-6-18: Wood straw mulch delivery to Hepp staging area for hand placement.

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## Work in Progress/Completed: cont.

10. Continued preparations for Breach 6 repair, excavated majority of clay core trench to grade, started and completed clay import from Swede Lake source;
11. Maintenance of access/erosion/pollution prevention measures.

## Upcoming Work:

1. Continued Breach 1 embankment replacement;
2. Harvesting of root wads from locations on BCPOS properties near the Breach 1 and Ramey project sites; bringing in root wads from other locations to complete bank stabilization structures;
3. Breach 6 embankment replacement/repair including clay processing and clay placement;
4. Continued stream channel rough grading and realignment upstream to 63<sup>rd</sup> Street bridge;
5. Continued material sorting for in-stream features;
6. Finish compost deliveries to Hepp site and preparation of soil for topsoil/seed/mulch or erosion control blanket placement on completed locations;
7. Continued development of punch lists for finished sections of work;
8. Maintenance of access/erosion/pollution prevention measures.



2-7-18: QA review by NRCS TJ Burr, Type D bank stabilization installation, Sta. 39+50



2-8-18: Pre-work visit to Breach 2 location with ACC/BCPOS for planning purposes and to discuss limiting impacts to Preble's habitat.

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## Notes:

1. Discussions continued between BCPOS and the design team on ways to enhance floodway and floodplain natural variability without compromising bank protection in the bank stabilization structures. EA and ERC preparing new design to consider for planned Type C and Type D bank stabilization locations.



2-9-18: Breach 1 continued installation of riprap against the south side of the clay core and building the embankment along the north side of the clay core above the previously installed riprap. Note turbidity caused by upstream projects not related to Reach 3.



2-9-18: Projects upstream of Reach 3 causing turbidity in the St. Vrain at the upper limit of Reach 3 project Sta. 197+00.



2-9-18: Stream realignment south of the 63<sup>rd</sup> St. bridge to create dry workspace for Sta. 59+00 bank stabilization installation.