



April 1, 2020

Mr. Jeff Rice
El Paso County Planning and Community Development
2810 International
Colorado Springs, Colorado 80915

**RE: East Fork Jimmy Camp Creek at Creekside at Lorson Ranch, El Paso County,
Colorado CDR 192 (Kiowa Project No. 18020)**

Dear Jeff:

I have prepared responses to Engineering's review comments provided by the County that were included the comments for CDR 19-002. Kiowa's responses are in green.

Channel Construction Plans and Design Report (also in CDR-19-002)

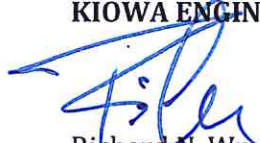
1. **Resolved.**
2. See redlined plans and design report. **Partially resolved; see updated redlines.** Redlines as received have been addressed and corrections to the plans and reports made accordingly.
3. County criteria generally require low-flow channels to be designed for the 10-year event (reference DCM 10.5.4); provide calculations/modeling and discussion addressing this. See redlines regarding channel velocities, degradation and stabilization, and whether or not additional grade control should be provided. **Partially resolved; provide electronic model and tables including the runs for 110 cfs, 550 cfs and 5,500 cfs.** HEC-RAS runs for the 110 and 550 cfs flows have been completed and their summary outputs included within the appendix of the report.
4. **Resolved.**
5. **Resolved.**
6. Provide an electronic copy of the HEC-RAS model when available. **Unresolved.** Kiowa will provide once design plans are subject to approval.
7. **Resolved.**
8. Provide the new PBMP Applicability Form, which can be found at: <https://planningdevelopment.elpasoco.com/wp-content/uploads/Engineering/EngineeringDocuments/PBMP-Applicability-Form.docx>. **Partially resolved; see form redlines.** Redlines related to the PBMP applicability form have been addressed.
9. As noted at the beginning of these comments, updated checklists are required, which are to be provided by the design engineer. Provide with the next submittal. Instructions are provided below the list of attachments. Checklists can be found at: https://planningdevelopment.elpasoco.com/wp-content/uploads/Engineering/EngineeringDocuments/Copy-of-GEC-SWMP_Checklists.xlsx. The GEC Plan and SWMP will be reviewed in detail with the checklists. **Partially resolved;**

see checklist redlines. Redlines related to the SWMP and GECF checklists have been addressed.

10. Provide the wetland delineation update and mitigation plan when available. Wetland delineation has been completed and is contained within the 3rd submittal. Wetland delineation report and Lorson Ranch 404 modification request has been included within the appendix of the channel design report.
11. Channel improvements FAE:
 - a. **Resolved.**
 - b. Provide mulching quantities to match seeding. **Unresolved.** Mulching and seeding quantities have been included within the updated FAE.
 - c. Note: quantities and costs will be verified with the next submittal. **Partially resolved; see highlighted items in redlines that may need quantity or revision.** Noted.
12. See attached Engineering Final Submittal Checklist for reference.
13. Note: Staff will provide the draft channel O&M plan when available. Noted.

If you have any questions, please do not hesitate to contact me.

Sincerely,
KIOWA ENGINEERING CORPORATION



Richard N. Wray, P.E.
Senior Engineer

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