



FIVE PEAKS CONSULTING
Monthly Engineering Report
Carson Truckee Water Conservancy District

February 12, 2024

MONTHLY ACTIVITIES- December 2023/January 2024

- 1) Completed bi-annual inspection report. During inspection, additional debris was identified to round out the 2023/2024 debris removal scopes of work. Finalizing fall debris removal report.
- 2) Received temporary access agreement from private parcel owner on Dickerson to support removal of large downed tree in the river.
- 3) Met NDOT onsite to inspect the corrections needed to properly armor the bank below the pedestrian path in order to close out the SBX permit. Work was completed per the approved permit plans.
- 4) Submitted the 408 permit application for 25 White Fir to USACE on January 23rd. Project number has been assigned as 24-01. Awaiting initial review comments – anticipated by February 23rd.
- 5) Met with Reno Sparks Indian Colony on January 29th to discuss current status of the shared use path project under Permit 20-01.
- 6) Made modifications to the 2024-2025 grant application to include public vs. private, project's design flow and property owner's contributions if located on private land.
- 7) Participated in a meeting with the City of Reno and TRFMA on February 1st regarding the Riverside Drive project. George Robison, executive director of TRFMA, presented the conceptual design of the wall that be needed to contain 14,000 cfs. The City of Reno understands the need and obligation to complete this project and will be requesting funding from TRFMA.
- 8) Received USACE Truckee River field inspection report on June 27, 2023. We have responded to much of the comments, but continue to work with NV Energy on unauthorized powerline crossings and City of Reno on additional flap gates required. Continuing to follow up with USACE inspection team.
- 9) Received executed consent agreement from Vero Fiber to complete maintenance for Sutro bridge conduit attachments. Work is tentatively planned for March.
- 10) Participated in monthly status calls with USACE on December 19th to discuss 408 review progress for City of Reno Booth Street Siphon project and RTC Arlington Bridges project. Provided permit review updates to project proponents.
- 11) Corresponded with project proponents for Sierra Street and Keystone Avenue bridge replacement projects.

- 12) Corresponded with project proponent/consultant on upcoming Verdi bridge replacements. Provided upstream HEC-RAS model and 14,000 inundation shapefiles to determine permitting requirements.
- 13) Review projects near river for Permit requirements; provide inundation maps for parcels, as required. This included discussions with NDOT regarding upcoming Trout Unlimited J-hook weir structures in Verdi, as well as other various projects/parcels adjacent to the flood channel.

UPCOMING ACTIVITIES

- 1) Distribute bi-annual inspection report and fall debris removal work report.
- 2) Meet with One Truckee River to review 90% plans for Brodhead Park Restoration and provide guidance on whether a 408 permit will be required.
- 3) Follow up with City of Reno on the meeting that was held on June 29th to confirm that West Street Plaza is included in their Flood Response Action Plan (FRAP) and pursue a final encroachment permit.
- 4) Reach out to Boca/Stampede Bureau of Reclamation contact to schedule a CTWCD Board field trip.
- 5) Continue to participate in monthly check in meeting with USACE. These are scheduled for the third Tuesday of every month.
- 6) Draft letter to Waste Management regarding their responsibility to keep the river bank that they own to OHWM secure and clear of encroachments and hazard trees.
- 7) Finalize work on guidance document and installation details for rip rap placement for erosion repairs within the 14,000 cfs flood channel. Discuss preliminary erosion guidelines with City of Reno and SWCA to possibly incorporate along with their vegetation management effort.
- 8) Continue to collaborate with the City Forester for the removal of hazard trees within the 14,000cfs flood channel if budget dollars permit.
- 9) Continue to collaborate with TRFMA and their modeling engineers to discuss status of their HEC-RAS modeling and future coordination.
- 10) Continue working with project proponents for encroachment permit applications for One Truckee River Brodhead Park, USFWS fish passage projects, NDOT I-80 Verdi Bridge Replacement Project, Keystone/Booth/Sierra Bridges replacement project and other projects within the 14,000cfs flow channel.
- 11) Schedule informational meetings with potential entities with river crossings to inform them of CTWCD maintenance activities/capabilities and 408 Encroachment Permit requirements for projects along and across the river. Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review and differences. Communicate updated fees and Fee Policy for 408 Permit Review.
- 12) Continued coordination with City of Reno for 1) Flood Response evaluation and incorporation of Interim Risk Reduction Measures into their Flood Response Plan for West Street Plaza, Oxbow Park Platform and Riverside Drive, and 2) Flap-gate Installation Phase 2 needs assessment and installation project.

SUMMARY REPORT

The bi-annual river inspection was completed in December and resulted in additional debris to include in the Noah's Park Tree Service and Nevada Environmental scopes of work. Noah's work is complete for the year and Nevada Environmental will schedule two additional days in the next couple weeks.

2023-2024 CTWCD grantees continue to make progress. Carson Valley Conservation District provided a Q4 grant status report and request for disbursement. Mary Pat and Kayla can follow up with other grantees.

The 408 application for 25 White Fir was finalized and sent to USACE on January 23rd, along with CTWCD's Statement of No Objection. We expect to receive initial comments within 30 days of the submittal date.

Reno Sparks Indian Colony reached out in January to discuss the permit and associated permit window for the Truckee River Shared Use Path that was permitted as project CTWCD 20-01. This was originally permitted by RTC to be completed in parallel with the NDOT SBX project. It was not completed as part of the NDOT SBX Project because necessary ROW/easements were not transferred by RSIC as originally committed such that a continuous pathway was not able to be provided. The RSIC is now internally working to determine if/how to advance necessary ROW/easements to facilitate advancement of the project – which would include final design and construction. RSIC is hoping to move this project forward with a phased approach.

RTC and Jacobs continue to progress environmental and engineering design for the Arlington Avenue Bridges Replacement Project. RTC would like to start construction in 2024. CTWCD provided comments and recommendations regarding the design of the Arlington Bridge Replacement, which was sent via letter to RTC in March 2021, including the need for access to the river from the bridge deck, as well as from the river banks, and the requirement that the water surface elevation is not increased by more than 0.1 ft as a result of the project. At this time, all of these requests are being incorporated into the design. FHWA is the lead federal agency so they are completing the overall NEPA decision and have issued a Categorical Exclusion. The hydraulic modeling shows that the bridge deck is not inundated at 14,000cfs which is important for USACE. Other benefits of the project include removal of the sediment deposits in the kayak park, as well as a maintenance agreement with the City of Reno to keep the park free of future deposition. Additionally, the project includes an equipment access ramp from Island Avenue to support future maintenance access to the kayak park. The application for the bridges replacement was received February 24th to support inclusion on the March Board agenda. The CTWCD Board voted to approve the project at the March 2023 meeting. Five Peaks and JUB completed technical review of the package and submitted to USACE on April 26, 2023. We received an Incomplete Letter from USACE on May 25th with some questions and requests for additional information. This was immediately forwarded to the project proponent. The response to the Incomplete

Letter was sent to USACE on July 10th. We received additional comments from USACE regarding the hydraulics (localized increase of WSEL greater than 0.1ft) on August 7th and full response from project proponent was provided on September 11th. A meeting was held in November with USACE to further discuss the hydraulics and they requested a risk assessment report. Project proponent has not yet provided a response. Five Peaks will continue to have a monthly check-in call with the project proponent, as well as USACE to meet on overall project status. USACE is confident that a permission could be issued to support late 2024 construction, however this is at risk due to delays with the river survey and design of the kayak park modifications. The 90% submittal is expected on March 18th.

During a routine river inspection in September, it was noted that the NDOT SBX Project (Permit 18-02) did not complete the bank restoration per the approved plans. NDOT agreed to remobilize Ames Construction to correct and armor the bank and Five Peaks met the team on site in January. Work was completed per plan and the associated permit has been closed out.

We are making great traction with the City of Reno and TRFMA on addressing the Riverside Drive inundation. TRFMA commissioned a conceptual design that showed a reasonable wall height (< 2.5 feet) to contain 14,000 cfs. Next steps are complete construction plans and bid package, as well as overall project funding.

Design review committee meetings are ongoing for RTC's Sierra Street (2028) and Keystone Avenue (2030) bridge replacements.

Farr West Engineering is completing the design for the Booth Street Sewer Siphon project on behalf of the City of Reno. This project will require a bore under the river. A 408 Encroachment Permit will be required as the requirements apply to any projects going over, under or thru the 14,000 CFS flood channel. Tri Sage provided the current 408 application, as well as the HEC-RAS model for that section of the river, and let them know they could expect an 18 month permitting window. A siphon project was previously completed by Farr West and CoR near Kuenzli and the City Maintenance Yard. Some hurdles of that project were addressing the scour, as well as the depth of bore. A pre-application meeting with USACE was held on March 28th. This included the project proponents, as well as the Flood branch of the USACE to ensure all NEPA requirements are being met and hopefully streamline the environmental review of the permit. There is no federal funding for this project and no disturbance below OHWM so USACE Flood will be the lead federal agency for the project. In general, the Farr West team was very well prepared for the call and was able to respond to all of the questions from USACE. They also included their biological and cultural sub-consultants which was very helpful for the discussion. USACE urged Farr West/City of Reno to use the HDD Categorical Permission checklist and include with their application. Farr West submitted a complete application on May 20th. It was a very thorough application and the technical review was simple to complete. The Board voted to approve this permit and submit to USACE for review at the June Board meeting. A Statement of No Objection was drafted and the permit was uploaded to the FTP file share on June 30, 2022. The 408 permissions group

provided an initial review of the application and comments/requests for additional information. Farr West provided response to USACE's comments and this information has been sent to USACE to support continued permit review. USACE provided comments for the Biological Assessment on May 26th and the proponent provided revisions on June 27th. In November, USACE finally received final input from SHPO on the historical significance of the rock wall in Idlewild Park. Two final items required to complete cultural consultation – updated rock wall plans and confirmation regarding restoration photos. These were delivered in late November. All other reviews are complete. We received notice from USACE in February that the submittal has been deemed complete. USACE is anticipating a final decision to be issued in spring 2024.

Tri Sage accompanied USACE on a field inspection of the Truckee River during the week of June 13th. Federal projects are supposed to be completed every 5 years, but the last inspection of the Truckee River was in 2013. The inspection kicked off on Monday, June 13th at Idlewild Park continuing east to the East 2nd Street bridge. The inspection continued on Tuesday, June 14th at Glendale Bridge to John Champion Park to inspect east end of the CTWCD jurisdiction. A draft report was received via email on June 27th. Five Peaks has provided comments to USACE. We are also working on developing an action/follow up plan for the “unacceptable” ratings and maintenance items.

The river flow model work is completed and the inundation maps for the entire jurisdictional reach are now available. The new inundation maps have been a very helpful tool in all of the engineering work required to support the District. Five Peaks has recently shared the model with several project proponents including Parametrix (Verdi and Keystone bridge replacements) and NVENV (Trout Unlimited J-hook weir structures). We will continue to work with TRFMA on coordination of our HEC-RAS models. JUB recently received a version of the TRFMA model that was used to develop the FEMA Physical Map Revision (PMR).

The section that pertained to the USACE April 2013 Inspection report has been eliminated from this report; we expect that this section will be added in again to address maintenance items in the USACE June 2022 inspection report.