



TRI SAGE CONSULTING
Monthly Report
Carson Truckee Water Conservancy District

September 4, 2018

MONTHLY ACTIVITIES- July- August

- 1) TMWA Glendale Diversion Repairs – multiple emails, information transfers and discussions with TMWA, USACE, and Second Meeting in Sacramento to discuss 2010 Permit authorization not issued and permit needs for TMWA repair plans; resubmittal of 2010 Permit Package to USACE.
- 2) Calls and emails with NDOT project team regarding Spaghetti Bowl Improvements and 408 Permitting requirements; multiple emails with USACE regarding clarifications of 408 Permit requirement, NEPA participation and availability of funding agreements to move permits through review and conference call scheduled 9/5/18 with USACE to discuss these matters and get much needed answers.
- 3) Follow-up emails with USFWS regarding Grantee and ownership matters for Steamboat Fish passage project; Generally, review updated engineering tech memo & formulate additional information needs.
- 4) Request help from City of Reno with vegetation removal at multiple locations and inspect completed project areas; City of Reno crews continue to do an excellent job on these areas.
- 5) Follow-up with DEM regarding outstanding FEMA Grant submittals; continues under review with no expected finish date available.
- 6) Prepare inventory of debris for removal prior to flow season; discuss removal approach with Board at meeting for Board direction.

UPCOMING ACTIVITIES

- 1) Prepare final debris removal scope of work and engage a debris removal contractor as directed by the Board.
- 2) Continue working with project proponents for encroachment permit applications for NDOT Spaghetti Bowl Project, USFWS fish passage projects, TMWA Glendale Diversion Repair project and other projects within the 14,000cfs flow channel.
- 3) Draft and mail letters to home owners along Idlewild Drive notifying them of encroachment requirements and limitations.

- 4) Follow-up with local agencies and project applicants on possible participation in the flow model updates for their impacted areas; bring findings back to District Board for discussion.
- 5) Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review once in place.
- 6) Discuss 2-D Model updates with TRFMA and opportunity for CTWCD to use this model update; Model nearly completed and will be made available to CTWCD by TRFMA.
- 7) Work with the City of Reno to pursue a permanent encroachment permit for the West Street Plaza and any associated projects.
- 8) Continue to evaluate and discuss temporary flood control measures including flow limitations, cost, storage, installation requirements and options for West Street Plaza and Booth-Riverside Drive areas.
- 9) Run 14,000cfs steady state HEC-RAS flow model to establish water surface elevations along key river locations to evaluate issues; complete sections upstream and downstream of downtown.
- 10) Continued coordination with City of Reno for 1) Flood Response evaluation and incorporation of Interim Risk Reduction Measures into their Flood Response Plan, and 2) Flap-gate Installation needs assessment and installation project.
- 11) Finalize the Equipment Access/Entry Point Documentation and Mapping for the District Jurisdiction;

SUMMARY REPORT

During this period, Tri Sage has followed up with the State DEM regarding the FEMA Grant Award CTWC A04 for work completed at last fall; DEM has responded to this inquiry stating that our award is still under review. We have had only one inquiry to date regarding audited financial reports for the District. The amount of the pending award is \$52,162.50.

Tri Sage has provided follow up with USFWS to discuss the permittee/permit grantee for the 408 Permit; to date USFWS does not have a party willing to own the project and become the grantee. The updated Technical Memo received for this project from the USFWS has been generally reviewed to see if it answered all of the District's concerns and a list of additional informational needs has been prepared for once the project has a permittee identified.

Tri Sage has been working with TMWA and USACE regarding whether a new 408 Permit application will be required for the repair of the Glendale Diversion following the flood of 2017. TMWA has developed a plan and design drawings for the flood erosion repairs. The information requested from TMWA and their hydraulic engineering consultant at the June 13, 2018 meeting in Sacramento with the USACE was provided to the USACE on July 10, 2018. This memo addressed the minor increase in water surface elevations in the HEC-RAS flow model compared to the results of the physical model constructed for the project. The USACE had committed to rendering a decision on this matter within two weeks of getting this updated information; however, after multiple emails and calls from Tri Sage

over more than a month, and no decision being communicated from the USACE, Tri Sage requested a meeting to again discuss the TMWA Permit matter. A meeting was held in Sacramento and by Conference Call on August 31, 2018 to discuss the information submitted by TMWA and the next steps. At this meeting, the USACE hydraulics engineer reviewed the project and memos and approved the 2010 Project. The USACE agreed to issue a 2018 408 Permit for the 2010 Diversion Project upon submittal by the District/TMWA of the original application package and a draft permit. The USACE Hydraulics Group will issue a letter of approval for the project and the project will be processed through the 30-day administrative approval process at the USACE. The USACE also agreed that the erosion repair plan for the planned repairs from erosion damage caused by the 2017 flood can be implemented under this 408 Permit to be issued as maintenance of the project. No additional permitting will be required for the repairs as long as the repairs do not change the water surface elevations and use materials approved for the original project then the “maintenance” provisions of the Martis Agreement apply. TMWA has designed the flood repairs to meet these conditions.

Tri Sage has conducted several calls and conference calls with the NDOT team regarding the Spaghetti Bowl Project and the 408 Permit requirements. Several emails have been sent to the USACE requesting that they become a participating agency in the Federal Highway Administrations NEPA review and inquiring as to whether this project can enter a funding agreement in order to move the review for this permit ahead of the queue as well as several other questions which have been asked. To date, these questions remain generally unanswered by the USACE. The project team has many still unanswered questions by USACE, so we are planning to have a conference call to discuss these open matters on September 5th, 2018. NDOT still needs answers to questions including the impacts of phasing work on the 408 Permit and whether a phased 408 Permit is acceptable since the EIS will be completed in one document for all phases, whether this project can be completed as a Categorical Exclusion or will require USACE NEPA reviews, and whether the project can enter a funding agreement to expedite the permit review and get the permit issued by next spring. Although the first phase of the project will add a bridge across the river that will clear-span the 14,000cfs flow channel, NDOT expects that the contractor will require temporary encroachments into the 14,000cfs channel in order to build platforms from which bridge girders may be set in place; this may change the requirements for USACE review. NDOT would like to construct the new bridge in 2019 if they can get all permits in hand.

Tri Sage along with Superintendent Penrose is in the process of completing an updated river inspection to identify debris that needs to be removed this fall. Tri Sage will discuss contracting options for the debris removal with the Board at the upcoming meeting and get direction for contracting and pursuing debris removal work prior to the upcoming flow season.

The City of Reno has expeditiously completed the removal of vegetation at several locations along the river channel as requested by the District. They have cleared vegetation from Booth Bridge rip-rap, from the gabions and walls along Riverside Drive, from the channel walls upstream of Sierra Street. In

addition, the City has cleared storm drain outfalls and repaired broken flap-gates within the flow channel. The City of Reno continues to be a supportive partner in maintaining the flood channel.

The City of Reno is preparing to initiate Phase I of the Flap-Gate installation project. This project will generally install inline check valves at penetrations into the flow channel along the Truckee River walls downtown. This project was initiated to address the USACE inspection issue; this project was delayed due to high flows and funding needs to deal with the 2017 Flood projects.

The section that pertained to the USACE April 2013 Inspection report has been eliminated from this report; and it is recommend the District continue to pursue improvements and correction of items noted in that last inspection report. The District has addressed or is currently addressing those items through its work.