



TRI SAGE CONSULTING
Monthly Report
Carson Truckee Water Conservancy District

November 5, 2018

MONTHLY ACTIVITIES- October

- 1) TMWA Glendale Diversion Repairs – The TMWA 408 Permit for the Glendale Diversion has been issued by the USACE; TMWA will make repairs as maintenance during 2019.
- 2) NDOT Spaghetti Bowl Improvements – multiple emails with USACE and NDOT regarding application and additional information needed by USACE for review; Call with NDOT Hydraulic Engineer regarding survey, model and summary report needs for this project application.
- 3) Work with DF Drumm to get agreement for debris removal work authorized by the Board; show contractor the work areas and debris to be removed under the scope of work; entry authorizations and approvals.
- 4) Follow-up with DEM regarding outstanding FEMA Grant; Grant is pending second level review.
- 5) Review Arconic Project in Verdi and evaluate the 14,000cfs channel along this project area; provide engineer information for 408 Permitting if necessary.

UPCOMING ACTIVITIES

- 1) Monitor debris removal work;
- 2) If approved by the District Board, Contract with a second contractor for additional debris removal work and monitor removal work;
- 3) Report to agencies regarding debris removal work;
- 4) Continue working with project proponents for encroachment permit applications for NDOT Spaghetti Bowl Project, USFWS fish passage projects, Arconic and other projects within the 14,000cfs flow channel.
- 5) Renew the Nevada Division of State Lands Entry License for the Truckee River which expires December 31, 2018; The District will want the new agreement in place for 2019 removal needs.
- 6) Draft and mail letters to home owners along Idlewild Drive notifying them of encroachment requirements and limitations.
- 7) 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.

- 8) Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review once in place.
- 9) 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.
- 10) Work with the City of Reno to pursue a permanent encroachment permit for the West Street Plaza and any associated projects.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) Finalize the Equipment Access/Entry Point Documentation and Mapping for the District Jurisdiction;

SUMMARY REPORT

Tri Sage has drafted a Service Agreement with DF Drumm for the removal of this debris not to exceed \$25,000 as directed by the Board. Tri Sage has also drafted a scope of work document for the contract which has photos and access information for each area where debris is to be removed and has field walked with this Contractor the high priority debris identified in this scope of work. Tri Sage has continued to pursue right of entry approvals from land owners. Work in this initial phase with DF Drumm is scheduled to start on Wednesday November 7th, 2018. **Tri Sage will request the District Board issue a second debris removal contract to NVENV not to exceed \$25,000 to address the high priority debris which cannot be removed under the initial phase of this work now that pricing has been established.** Tri Sage will monitor this work and draft the reporting to agencies.

The USACE has issued the 408 Encroachment Permit for the TMWA Glendale Water Supply Project completed in 2010. The USACE also has 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 and this work can be performed as maintenance of the original 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 and plans to implement repairs in the fall of 2019.

Tri Sage has continued to work between the NDOT Spaghetti Bowl Project team and USACE for the 408 Permit for this project. A conference call was held with the NDOT Hydraulic Engineer to review the questions and concerns raised by the District’s Engineer and also by the USACE. USACE has issued notice of the project from their NEPA group and has agreed to obtain the Section 106 & Tribal

consultation information and EIS information from the USACE Regulatory office where it is being submitted by NDOT. 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; these temporary pads have now impacted the requirements for both the District's and USACE's review. NDOT would like to construct the new bridge in 2019 if they can get all permits in hand.

During this period a project in Verdi at the Arconic Plant has requested review to establish if any of the elements in this project are within the 14,000cfs flood channel. The District is waiting on confirmation of one project element and its specific location. The County has issued project approval and in that approval, stated that no work is allowed within the 14,000cfs flow channel of the river; this is confirmation that the planning agencies along the river are working to prevent encroachments into the flood channel and are acknowledging that limitation in the project approvals.

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 not yet responded to this inquiry at this report writing. Last month DEM stated that our award is undergoing second level 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.

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 with installations beginning in 2019. 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.