



**TRI SAGE CONSULTING**  
**Monthly Report**  
**Carson Truckee Water Conservancy District**

---

October 1, 2017

**MONTHLY ACTIVITIES- September**

- 1) Complete river debris removal work and associated monitoring for FEMA and NDEP reporting.
- 2) Review DF Drumm invoices and submittals for work, request updates and request payment by the District in the amount of \$68,700.
- 3) Draft and Distribute NDEP Working in Water Ways Report for Third Quarter including deposit removal and debris removal work.
- 4) Draft and Distribute USACE Semi Annual Inspection Report which was delayed from June due to high river flows.
- 5) Complete FEMA quarterly reporting for projects CTWCA01-A03 and submit for reimbursements.
- 6) Meet with DEM regarding Grant Award for Project CTWCA04 and draft and submit supporting documents for this project as requested by DEM related to grant award variances and timing.
- 7) Complete FEMA Project Change Request for CTWCA04 project to extend grant period for work to the end of September.
- 8) Work with property owner at Chism/River West Resort to restore river bank and abandon wall and stairs that were not issued a 408 Permit; follow up with USACE Flood on this pending application.
- 9) Meet with NDOT permitting contractor to discuss and intake the Verdi Bridge Scour application for 408 Encroachment Permit; forward documents to USACE and email USACE regarding right of way timing.
- 10) Calls with Congressman Amodei's office regarding 408 Permitting delays and anticipated funding for FY 2018; Call with USACE Flood regarding anticipated Amodei visit.
- 11) Call with USACE Flood regarding Categorical Permissions notice and public comment period and potential for this to help for 408 Permitting using this approach.
- 12) Begin effort to update the 14,000cfs flow model near the Spaghetti Bowl NDOT project reach.
- 13) Emails with City of Reno and agencies confirming work to remove sediment in Kayak Park has no permit required and is permitted as maintenance under the Martis Creek Agreement.

## **UPCOMING ACTIVITIES**

- 1) Check on City of Reno work to remove deposition in and around Wingfield Park to restore flood channel capacity.
- 2) Complete FEMA quarterly reporting for CTWCA04 Grant Award and request reimbursement once DEM clarifies Grant requirements and extends grant period.
- 3) Assemble and submit final costs, invoices, project details, photos etc to NV DEM for reimbursement of flood related work final project.
- 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) Complete pre-flood season river inspection for USACE Semi- Annual reporting and possible end of 2017 debris removal needs.
- 6) Communicate changes to the 408 Permit process with likely applicants including the City, and utilities.
- 7) Continue working with project proponents for encroachment permit applications for City of Reno Stoker Storm Drain Addition, Chism/ River West Resort, USFWS fish passage and NDOT Verdi Bridge Scour Projects.
- 8) 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.
- 9) Work with the City of Reno to pursue a permanent encroachment permit for the West Street Plaza and any associated projects.
- 10) 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.
- 11) 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.
- 12) 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 project.
- 13) Finalize the Equipment Access/Entry Point Documentation and Mapping for the District Jurisdiction;

## **SUMMARY REPORT**

DF Drumm successfully completed the deposition and debris removal work as of September 11 and made final repairs to a damaged road on September 19. The final invoices, photos, project information including Lockwood Landfill receipts were delivered to Tri Sage for review and some minor updates were requested and delivered. The District has paid DF Drumm for this work expeditiously so that we

have documentation to submit to NV DEM for reimbursement once DEM has confirmed our Grant Award and extension of time for this work.

Tri Sage has drafted and distributed the NDEP working in water ways Permit reporting for this deposition removal and debris removal work in the river. This report was sent to USACE Flood as an attachment to the Semi-Annual Inspection Report that was delayed from the June report until this fall when the river flows decreased and the corrective work was completed. Tri Sage also drafted and distributed the USACE Semi Annual Report. Elements of this reporting will also be used as supporting documentation for the FEMA Grant Award for this work.

Tri Sage and Superintendent Penrose met with NV DEM staff to discuss the final CTWCA04 project and associated Grant Award for this work. First it was explained that DEM cannot provide a time extension until the Grant Award was made and that the District needs to submit the request on the official Project Change Request form for this grant; this form was submitted in September. Secondly we discuss the variances in the site by site project amounts compared to the estimated amounts originally provided to FEMA for this overall project work prior to having bids in hand. DEM requested some additional information on the project bids, estimates and project management costs which were prepared and submitted for review. At this writing the District is waiting on confirmation of the time extension as requested on the Project Change Request for this final project and also waiting on confirmation of the Grant amount and how that might be adjusted due to the elimination of one project site from this work.

Tri Sage has been coordinating with City of Reno staff regarding the sediment removals at the Kayak Park at Wingfield Park. The City plans to complete this work on both the South channel and the North channel to the maximum extent possible using City staff for the project work; work is currently planned for the first two weeks of October. The District has offered use of access agreements for this work if necessary and has confirmed with agencies that no 408 Permit is required for this work and that this work is a requirement and authorized as maintenance under the Martis Creek Agreement. The District appreciates the City seeing to this work prior to the next possible flood season to insure the channel is at full capacity and capability.

Tri Sage has received notification from the USACE Flood Branch regarding the notice and public comment period for 408 Permit Categorical Permissions. Under this approach the USACE is proposing to make several types of projects fit into a process where the USACE has essentially approve the project types and the applicant needs only to show that it has complied with NEPA and that the project specifics meet the requirements for the use of this Categorical Permission. This will once put into place, which may take several months to several years depending upon comments and opponents to this approach, will greatly reduce the review requirements for the USACE process. In addition, the USACE is working to draft some standard biological and historical preservation documentations that may be used by applicants for certain projects to expedite the NEPA processes. This Categorical Permission will be especially useful for projects where a participating federal agency can act as the lead NEPA agency for

the project. Examples that would benefit from this approach on the Truckee are bridge projects where the FHWA is a participant and can take the NEPA lead and fish-passage projects that the USFWS can lead the NEPA process. Details of how this will be applied and exactly what the process might look like are yet to be determined; however, this is clearly a step in a positive direction to improving the 408 Permitting process.

The modeling need discussed at the July Board meeting has not been dealt with as of yet due to other more pressing needs with the District. At that meeting of the Board, Tri Sage was directed to go out to the project proponents and impacted agencies and see if these parties are willing to contribute to the development of the flow model in areas that impact their jurisdictions. This will be done this fall when time permits. Prior to that time a request came in for the 14,000cfs flow model which will be used as the basis of a 408 Permit determination in the vicinity of the “Spaghetti Bowl” (395 Bridges and Kietzke Lane Bridge) for the project planning needs. The Board approved the creation and integration of the model in this Spaghetti Bowl reach at the September meeting and this modeling work has begun.

The City of Reno is continuing with their review of the Flap-Gate requirements in order to address the USACE inspection issue; the city has engaged an engineering firm to design the flap-gates for installation at several locations and will pursue permitting and installations in the coming year. This project may be placed on hold due to high river flows and funding limitations following the flood.

The City is evaluating alternatives for the West Street Plaza interim risk reduction measures to be incorporated into the City’s Flood Response Plan while the City works with a potential developer who is interested in the West Street Plaza. The City is working toward an application for a permanent encroachment permit for this project pending the outcome of work with the potential developer.

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.