



TRI SAGE CONSULTING
Monthly Report
Carson Truckee Water Conservancy District

May 14, 2018

MONTHLY ACTIVITIES- April-May

- 1) Follow up on Reno Stoker Storm Drain Permit; Permit issued on 5/14/18 by USACE.
- 2) Revise Permit language in Reno Storm Drain Permit and NDOT Bridge Scour permit per minor USACE corrections requested; review Martis Agreement for specified "Flood Season".
- 3) Provide USFWS with comments on application including flow modeling, technical reports and design parameters and meet to discuss updated technical needs for this application. Emails with USFWS and USACE regarding Grantee and ownership matters.
- 4) Emails and calls with TMWA regarding Glendale Diversion repairs and permitting needs; review of Martis Agreement provisions and emails with USACE requesting clarification of repairs/maintenance or permit required.
- 5) Call with City of Reno Project Engineer regarding Phase I Flap Gate Project and 408 Permit requirements.
- 6) Emails with DF Drumm regarding a new excavator available for future debris removal projects.
- 7) Confirmation with NV DWR regarding lower Truckee 408 Permitting directly through USACE Flood Sacramento.
- 8) Follow up email and call to Congressman Amodei's office regarding 408 Permit review funding in federal approved budget.

UPCOMING ACTIVITIES

- 1) Inspect Truckee River channel following run-off flow and draft USACE Semi-Annual Inspection Report; document debris needing removed before flood season.
- 2) Continue working with project proponents for encroachment permit applications for NDOT Verdi Bridge Scour Project, USFWS fish passage projects, TMWA Glendale Diversion Repair project and other projects within the 14,000cfs flow channel.
- 3) 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.
- 4) Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review once in place.

- 5) 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.
- 6) Work with the City of Reno to pursue a permanent encroachment permit for the West Street Plaza and any associated projects.
- 7) 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.
- 8) 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.
- 9) 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.
- 10) Finalize the Equipment Access/Entry Point Documentation and Mapping for the District Jurisdiction;

SUMMARY REPORT

During this period, Tri Sage received a request for information related to the District's Policies and Procedures for procurement, travel, contracts, inventory, personnel and risk from DEM for the FEMA Grant Award CTWC A04; amount of the pending award is \$52,162.50. Tri Sage provided the District's By-Laws and a general description of how the Board manages these processes including the use of the State of Nevada NRS for purchasing requirements.

The 408 Permit for the City of Reno Stoker Storm Drain was authorized and issued by the USACE Flood Branch on 5/14/18. The City will now be able to go to bid for this project work with permits in hand and they hope to construct the river outfall during lower flows in the late summer or early fall. Minor wording and the District Address were updated on the non-signatory pages as this permit as requested by the USACE.

The NDOT Bridge Scour Project permit has been executed by the parties and mailed to USACE Sacramento for final authorization once the project has completed its USACE review. USACE requested some minor changes to titles and verbiage in this final permit and changes were made to correct the non-signatory pages. NDOT has reimbursed the District for the review costs for this project. This project is now just waiting authorization from the USACE Flood Branch.

Tri Sage and the review/modeling engineer met with the USFWS team discuss in detail the flow modeling and technical reporting needs for this project to supplement the initial application. The USFWS is to provide an additional Technical Memo addressing these issues and questions. The project as proposed increases the water surface elevation of the 14,000cfs flow by approximately 1.5 ft which is 15 times the USACE allowable standard so the USFWS will have to demonstrate to the District and

USACE that this project does not pose any negative impacts or mitigates impacts for this increase in high flow water surface elevations. USFWS is continuing to work with river parties to find an owner for this Steamboat Fish Passage project who will take on the responsibilities of the 408 Permit; potential parties include the Steamboat Canal, TMWA and Truckee River Watershed Council or similar entity. In spite of this ownership matter, the District has requested that the USACE continue review of this project until such time as the owner must be identified; this will keep the project moving while the ownership can be determined.

Tri Sage has been working with TMWA regarding whether a new 408 Permit application will be required for the repair of the Glendale Diversion following the flood of 2017. TMWA now has developed a general plan and drawings for the repairs. Tri Sage has requested USACE confirm whether these repairs as proposed can be completed under the Martis Agreement “Maintenance” clause or whether TMWA will need to apply for a new 408 Permit for this work. The proposed project has no change in water surface elevations from the project approved in 2010 and generally uses the same rock materials and sizes placed strategically across the bed. Tri Sage has requested confirmation so that this work may be completed this summer.

The high flow at the Reno Gauge during the April atmospheric storm events was only 6730cfs on 4/7/18 and flows were much less than the 9000cfs forecast.

DF Drumm notified the District that they now have access to a recently purchased rubber track excavator of the mid-size. This equipment may be helpful if/when this contractor preforms debris removal work for the District in the future.

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 NC DWR has confirmed that for projects downstream of the Glendale Bridge, applicants must apply and permit their projects directly with the USACE Flood Branch in Sacramento. Once project applicants have all flood and regulatory permits in hand, including the 408 Permit and other regulatory permits, they can apply for the NV Permit for this river work. This issue has come up several times recently for projects below the Glendale Bridge who approach the District for permitting.

Tri Sage emailed Congressman Amodei’s office following the last meeting in order to again inquire about the federal budget funding levels for the 408 Permitting Review Processes at the USACE. A phone call was place to his office prior to this report in an effort to get this information for the Board; this item is still pending at this writing.

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.