

# **TRUCKEE RIVER WATERSHED COUNCIL**

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**April 8, 2015**

## **Request for Proposals**

### **Mainstem Martis Creek – Concept Design and Feasibility Study**

The Truckee River Watershed Council (TRWC) seeks to hire a consultant to complete a concept design and feasibility study for the Mainstem of Martis Creek, specifically the reach that runs through the Martis Wildlife Area.

This reach of Martis Creek is badly incised and actively eroding. Through the Martis Watershed Assessment (MWA; TRWC, 2012) this reach was identified as needing restoration. However, the exact causes of degradation are unknown. To develop an effective restoration plan, more detailed feasibility studies are needed. The goals of the Mainstem Martis Creek – Concept Design and Feasibility Study (Martis Creek Feasibility project) include:

- Determining the root cause of incision;
- Developing treatment alternatives and concept design;
- Determining feasibility of construction.

The project is located on land owned by the U.S. Army Corps of Engineers (COE). The successful team will work closely with TRWC and COE personnel.

### **Proposal Deadline**

Proposals are due by 5 PM on May 6, 2016.

### **Proposal Submission**

Submit proposals electronically to:

Beth Christman: [bchristman@truckeeriverwc.org](mailto:bchristman@truckeeriverwc.org)

## **1.0 Introduction and Background**

### 1.1 Project Overview

The Martis Creek watershed covers 26,204 acres. In Martis Valley, the large expansive vistas to the surrounding forest edge and mountain peaks beyond are a scenic treasure, recognized and admired by locals and thousands of annual visitors.

Martis Valley was used in the pre-European era by Washoe and Piute Native Americans. Remnants of their pre-historic sites exist today. European settlement and westward

expansion began in the late 1700's. From that time through the 1980's, the Valley was used for its water, grazing and timber resources.

The Martis Creek Feasibility project is located within the Martis Wildlife Area, along the mainstem of Martis Creek. Prior to incorporation in the Wildlife Area, the project area was used for grazing. The stream appears to have been re-routed to facilitate livestock use.

At present, the Wildlife Area sees significant recreational use, especially the Martis Creek Trail located along the banks of the mainstem of Martis Creek.

Numerous stop-gap measures have been taken to limit the extent of erosion and meadow loss along the mainstem of Martis Creek, but the root causes of the problem have not been defined or addressed. The stop-gap measures have been minimally effective.

The current Martis Creek Feasibility project addresses the potential for restoration of the mainstem of Martis Creek and adjoining wetlands through the Wildlife Area downstream to the confluence with Middle Martis Creek.

## 1.2 Existing Studies and Previous Work

An assessment of the Martis Creek watershed was completed in 2012 (MWA; <http://truckeeriverwc.org/about/documents>). The Mainstem Martis Creek project is listed as Restoration Reaches 1 and 9 in Table 10 of the MWA.

Work to date along the mainstem of Martis Creek has consisted of moving the existing trail away from the stream, fencing off eroding cutbanks, and attempting to close off additional user-created trails.

Two other of the projects identified by the MWA are moving forward to construction in 2015. Both of these projects are located along Middle Martis Creek (Middle Martis Creek Wetlands Restoration and Elizabethtown Restoration).

The U.S. Army Corps of Engineers is currently updating the Master Plan for the Martis Creek Lake facility, including the Wildlife Area. The draft Master Plan can be found at: <http://www.spk.usace.army.mil/Locations/SacramentoDistrictParks/MartisCreekLake.aspx>. The Master Plan includes references to the MWA and associated restoration projects.

Water quality data for various branches of Martis Creek are regularly collected by Placer County and reported in the annual Truckee River Water Quality Monitoring Report (<http://www.placer.ca.gov/Departments/Works/StrmWtr/StmWtrMonitoring.aspx>).

Northstar Community Services District is constructing the Martis Valley Regional Trail (MVRT) that will run through the Martis Wildlife Area. Documents relating to this project can be found at: <http://www.northstarcsd.org/trails.html>.

## 1.3 Design Considerations

The concept design for the mainstem of Martis Creek should build upon the work completed in the MWA. The concept design should complement and be feasible given other concurrent

planning efforts in the project area including but not limited to the U.S. Army Corps of Engineers Master Plan update, MVRT, and Placer County's Martis Valley Community Plan.

The concept design must be acceptable to the property owner (COE) and to other key stakeholders.

## **2.0 Work to be completed**

### 2.1 Project Work Tasks

#### Task 1. Meetings

The Martis Creek Feasibility project will include three formal meetings: Project launch meeting, concept design review, and feasibility study review. These meeting will be limited to TRWC and project partners. The project launch meeting will include finalizing the scope of work. The concept design review meeting is anticipated to include both field and office components. The feasibility study review will include a presentation of the final concept plan and key results from the feasibility study.

#### Task 2. Data Review and Field Surveys

Consultant will review existing data and collect additional site specific data necessary to complete the concept design and feasibility study.

Geologic, hydrologic, biologic, and hydraulic data were compiled at the larger watershed scale for the MWA. These data sets will be refined for the specific project area. We anticipate that more detailed stream reach data, meadow condition data, and topographic survey data may be needed.

#### Task 3. Update Hydraulic Models

Additional hydraulic modeling may be necessary for assessing project feasibility. Some initial work was completed for the MWA, however more detailed analysis may be needed for this initial phase of project design.

#### Task 3. Concept Design

Based upon information collected in Tasks 2 and 3, a concept design or design alternatives will be developed. The design will outline general restoration actions that would lead to improved watershed conditions. The final concept design will also incorporate feedback from the concept design review meeting (Task 1).

#### Task 4. Feasibility Study

The restoration concepts and alternatives will be analyzed for feasibility. This will include extent of expected watershed gains, likelihood of achieving those gains, potential constraints to implementation, constructability, phasing, and cost.

The feasibility study will include a summary of the data collected and analyzed during Tasks 2 and 3.

## Task 5. Coordination and reporting

The consultant will coordinate with TRWC staff regarding the status of the project, as well as design issues. Consultant will produce quarterly invoices and progress reports and submit to TRWC by the 25<sup>th</sup> of the last month of the calendar quarter (with the exception of December: March 25<sup>th</sup>, June 25<sup>th</sup>, Sept. 25<sup>th</sup>, and Dec. 15<sup>th</sup>). Copies of all survey or other data collected and analyses will be provided to TRWC in electronic form (Word, Excel, or Adobe pdf).

### 2.2 Deliverables

- Field Review Meeting with TRWC, U.S. Army Corps of Engineers and other partners
- Concept Design
- Feasibility Memo
- Digital copies of all data collected and analyses performed
- Photographs of project site – minimum of 20 digital, captioned photographs

### 2.3 Schedule

<b>Activity</b>	<b>Completion Date</b>
Proposals Due	May 6, 2015
Interviews with top 2-3 applicants	May 18, 2015
Kickoff planning meeting	June 5, 2015
Final scope and contract	June 5, 2015
Concept Design Review meeting	Nov. 1, 2015
Final Concept Design	May 15, 2016
Feasibility Analysis	May 15, 2016
Quarterly Invoicing and Reporting	March 25, June 25, Sept. 25, and Dec. 15, through June, 2016

### 2.4 Desired Qualifications

- A minimum of three constructed projects with similar objectives
- Experience in geomorphology and hydrology
- Experience with restoration project design
- Ability to work with diverse stakeholder group
- Proven ability to design cost effective projects

## **3.0 Proposal Format**

### 3.1 Detailed work plan

Scope: Define specifically the scope of services to be provided to perform the above described concept design and feasibility study for the Martis Creek Feasibility project. The contractor may elect to suggest modifications to the scope above or include optional tasks to be considered or negotiated. Include estimated time schedule of the major tasks to be accomplished.

Objectives: Identify and discuss briefly the specific objectives you will achieve through the conduct of the services within the project, as defined and specified above.

Detailed work approach: Discuss in detail each of the activities you will conduct to achieve the scope and objectives defined and identified above. List personnel that will be available to work on the project. Please specifically address work components outlined in the Work to be Completed section above, and elaborate as needed, particularly on the anticipated additional field studies needed. Modifications to the components listed in the work statement can be included. Technical merit, details of work, and experience of team proposed will be heavily weighted in proposal evaluation.

There is no page limit, but concise writing and graphics are greatly appreciated.

### 3.2 Background and References

- List current and previous experience in geomorphic assessment and restoration project design
- Include a duty statement and resume of each key person to be assigned to the project, by name and title, with experience in pertinent fields. Include a breakdown of personnel assigned to each subtask and estimated hours
- If subcontractors may be used, include a description of those persons or firms listing qualifications
- Provide a minimum of three references for similar projects, with name and phone number

### 3.3 Project Cost

The maximum budget available for is \$51,500.

Once a contractor is selected, TRWC will attempt to negotiate a satisfactory contract and reasonable fee for the services needed. In the event a satisfactory agreement cannot be negotiated with the top ranked qualified firm, the negotiations shall be terminated with the firm and the negotiations continued with the remaining qualified firms in order of their ranking.

Overhead not directly related to project costs will not be allowed.

## **4.0 Contract Terms and Agreements**

When the contract for the Martis Creek Feasibility project is awarded, the following terms will apply.

### 4.1 Payments

Progress payments for services performed shall be made in arrears upon receipt and approval of contractor's detailed invoices indicating costs and obligations incurred and services rendered to date. Payments will be made quarterly.

### 4.2 Mileage and Per Diem

Mileage and per diem expenses are allowed at the current State of California rates.

#### 4.3 Changes in Personnel

Contractor's key personnel as indicated in contractor's response to the RFP may not be substituted without the written consent of the TRWC Project Manager. This will be monitored and enforced by TRWC.

#### 4.4 Termination for Convenience

TRWC may, at its option, terminate the contract at any time upon thirty (30) day written notice to contractor. Contractor may submit written request to terminate only if TRWC should substantially fail to perform its responsibilities as provided in the contract. If terminated, contractor will be compensated for costs incurred up to the time of the termination notice for work satisfactorily completed. In no event shall payment of such costs exceed the contract price.

#### 4.5 Unique Billing of Work

All work produced for the Martis Creek Feasibility project will be original for TRWC, and will not have been billed to other clients previously. Work produced under the contract with TRWC will be billed only to the contract with TRWC and not to other clients or funders.

#### 4.6 Liability Insurance

Contractor shall provide before entering the premises and shall maintain in force during the term of this contract the following liability insurance:

General Liability  
Motor Vehicle Liability

Each policy of liability insurance described above shall be in an amount of not less than One Million Dollars (\$1,000,000) per occurrence for bodily injury and property damages combined.

#### 4.7 Quarterly Reports

Contractor to provide quarterly progress reports and meet with TRWC representatives upon reasonable notice to allow TRWC to determine if the contract is on the right track, whether the project is on schedule, provide communication of interim findings, and afford occasions for airing difficulties or special problems encountered so that remedies can be developed.

Quarterly Invoicing will include detail of task, delineated staff by name, hours, rate, total for the period, and remaining amount. Reports will be submitted in Microsoft Word/Excel or Adobe.

#### 4.8 Retention of Records

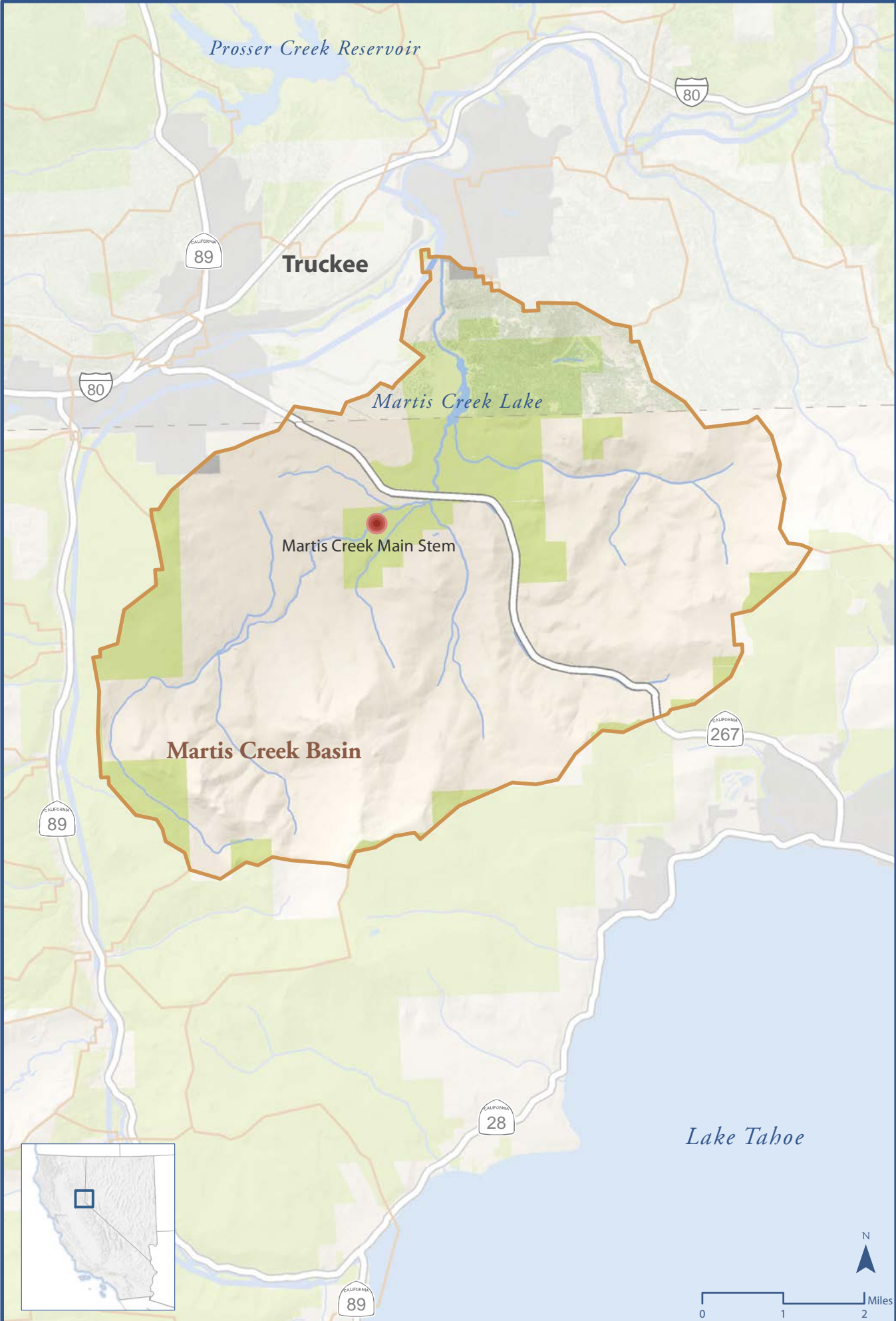
All records pertaining to this contract shall be preserved for at least three (3) years after Project completion.

ATTACHMENTS  
Photographs of project area  
Project Location Map



Examples of Bank Erosion along the Mainstem of Martis Creek

# Martis Creek Basin



-  Sub-Basin Boundary
-  Protected Land
-  Urban Areas



**Truckee River Watershed Council**  
Collaborative solutions to protect, enhance and restore the Truckee River Watershed  
[www.truckeeriverwcc.org](http://www.truckeeriverwcc.org)

Data display created by Xylem & map frame by GreenInfo Network March 2015