



Reliable resources for the Valley

REQUEST FOR PROPOSALS

FOR

HYDRAULIC MODEL UPDATE WITH TECHNICAL REPORT AND SEDIMENT REMOVAL PLAN

RFP ISSUED: JANUARY 19, 2026
PROPOSALS DUE: FEBRUARY 20, 2026

Issued by:
Kings River Conservation District
4886 E. Jensen Ave
Fresno, CA 93725

TABLE OF CONTENTS

INTRODUCTION	3
PROJECT DESCRIPTION	3
SCOPE OF WORK.....	4
RESPONSE	5
EVALUATION AND SELECTION PROCESS	5
GENERAL INFORMATION	6
INSURANCE REQUIREMENTS.....	7
APPENDIX A.....	10

INTRODUCTION

Kings River Conservation District (KRCD) is seeking technical proposals from highly qualified firms to update and enhance the hydraulic model and subsequent plans, reports, and assessments of the Kings River system from Pine Flat Dam to Mendota Pool (North Fork Kings) and Empire Weir No. 2 (South Fork Kings), including the KRCD Flood Control Project Levees (Levees) (see Appendix A for a map) using updated topobathymetric LiDAR currently being acquired under a separate contract. Proposals should detail the full project scope of work and be accessible by way of a task order contract.

KRCD is not seeking a bid/quotation that fulfills detailed specifications for the lowest price, but rather proposals that demonstrate the best technical value within available funding. As such, the lowest priced proposal will not guarantee an award recommendation. The proposal requirements and evaluation criteria should be viewed as standards which measure how well a firm's approach meets the desired outcomes, needs, and requirements of KRCD. The criteria that will be used and considered in evaluation for the award are set forth in this Request for Proposals. KRCD will thoroughly review all proposals received. A task order contract will be negotiated with the qualified firm submitting the selected proposal.

The nature of this work is for a public entity. Therefore, respondents to this solicitation will understand that their proposal may become public record at any time following delivery to KRCD. In addition to proposal responses, the successful proposer will understand that task order contracts and deliverables of the project will be publicly discoverable.

PROJECT DESCRIPTION

KRCD maintains 140 miles of flood control project levees originally built by the U.S. Army Corps of Engineers (USACE) (Appendix A), runs the hydro power plant at Pine Flat Dam, and monitors and maintains, with other agencies, the Fishery Management Area from Pine Flat Dam to Highway 180. The river centerline for the Area of Interest - Pine Flat Dam to Mendota Pool (North Fork Kings) and Empire Weir No. 2 (South Fork Kings) – is approximately 143 miles. Updated topobathymetric LiDAR data acquisition is currently under contract and expected data delivery should be completed within the 2025 – 2026 Fiscal Year (by June 30, 2026).

This project entails incorporating the updated data into the existing hydraulic model, updating the model and its associated analysis products including a subsidence assessment of the KRCD levees, updated Vulnerability Assessment Report, and creating a Sediment Deposition Analysis with a long-term Sediment Removal Plan.

SCOPE OF WORK

The project scope includes detailed analysis and modeling across the system's mainstem as shown on the figure below with a particular emphasis on sediment dynamics, levee stability, and current channel capacity. The updated model will serve as a critical planning and management tool for flood control, sediment management, and system maintenance activities.

Project Components

1. Model Geometry Update

The existing hydraulic model from the San Joaquin-Kings River hydraulic model dated 2021 from the state of California Department of Water Resources will be updated with the topobathymetric being collected by the KRCD.

2. Model Calibration – Historical Events

The updated hydraulic model will be calibrated using historical flood events and observed water surface elevations, streamflow data, and stage-discharge relationships at key locations. Calibration will focus on ensuring the model accurately represents system behavior under known conditions to improve reliability for future planning efforts.

3. Vulnerability Assessment Report Update

The updated calibrated hydraulic model will be used to update the Kings River Levee Evaluation Project Vulnerability Assessment Report developed in April of 2020. This report will include an updated assessment of the relative vulnerability of underseepage, through seepage, levee slope stability, and freeboard. The 2020 Vulnerability Assessment Report is available upon request.

4. Current Capacity Information

After the model geometry is updated, the Kings River channel capacity will be evaluated at three feet, one foot and zero freeboard. This includes integrating current topographic datasets, structural modifications, and recent hydrologic inputs to ensure the model reflects present-day system conditions. Climate change is not included as part of this proposal.

5. Subsidence Impact Assessment Along Levees

A comparative analysis will be performed to assess land subsidence impacts on levee performance throughout the Kings River system. Historical and current elevation data will be evaluated to determine areas with critical changes, and implications for flood management will be identified.

6. Sediment Deposition Analysis and Sediment Removal Plan

A system-wide evaluation of sediment deposition patterns will be conducted using the updated hydraulic model. The goal is to identify areas of significant sediment accumulation that could impact conveyance capacity or flood risk. A sediment removal plan will be developed based on model results, prioritizing high-impact zones and providing estimated volumes and removal strategies.

7. Deliverables

The project will produce an updated and calibrated hydraulic model of the Kings River system, developed in the current version of HEC-RAS. A comprehensive technical report will accompany the model, detailing the updates made, calibration methodology and results, Vulnerability Assessment Report update, sediment deposition analysis, subsidence evaluation, and findings from the scenario simulations. Additionally, a sediment removal plan will be included, outlining estimated sediment volumes, removal priorities, and associated spatial mapping. All spatial data and figures will be provided in standard digital formats compatible with ArcGIS. The projection required for all deliverables is NAD83 (2011) California State Plane Coordinate System, Zone 4, US feet (WKID: 6422, Authority: EPSG). Elevation values should be in NAVD88 (US feet) (primary) and NGVD29 (US feet) (secondary).

Full project delivery is expected no later than the end of the 2026-2027 Fiscal Year (by June 30, 2027).

RESPONSE

The proposal will be formatted at the discretion of the proposer. Successful proposals will include a scope of work, tasks, schedule, budget, and qualifications – along with required and proposed deliverables. Relevant work samples/references may be included.

The proposal budget shall include estimates of time, material, and other expenses to complete the proposed work. The proposed budget shall also include amounts for the various tasks or phases of work and be separated by the project components described above. Proposed budget amounts shall be used as a not-to-exceed basis for the costs for the negotiated task order contract. The proposal should also include a fee schedule. The fee schedules provided in the proposal will remain in effect for the duration of the Services Contract.

EVALUATION AND SELECTION PROCESS

All proposals will be evaluated qualitatively based on the following criteria, in no particular order:

- Proposer's understanding of the work
- Approach to the project
- Qualifications and experience of the Proposer's project team
- Fees for each task and project component and overall fee
- Proposed schedule
- Overall technical value

KRCD may meet or interview any or all the proposers during the evaluation process. A task order contract will be negotiated with a qualified firm submitting the proposal selected during the evaluation process with selection anticipated by March 10, 2026.

GENERAL INFORMATION

Proposals will be submitted by way of electronic mail on or before February 20, 2026, at 5:00 p.m. PDT. Responding firms will provide a PDF of their proposal(s) or a link to a downloadable PDF/package (if preferred or file is larger than 25MB) to Sonja Thiede, GISP, sthiede@krcd.org, at Kings River Conservation District. Any questions regarding this document or project will be submitted via email to Sonja Thiede, GISP, Associate Resource Analyst, at sthiede@krcd.org on or before February 13, 2026, at 5:00 p.m. PDT. Questions and responses received after these deadlines will not be addressed or accepted. Questions of a substantive nature will be answered in written form as an addendum and sent to all firms if KRCD deems it relevant.

KRCD will utilize its best judgment when determining whether to schedule a pre-proposal meeting or conference call before proposals are accepted, or meetings with firms after receipt of all proposals.

Proposal selection is anticipated to occur on March 10, 2026. Negotiation of a task order services contract with the selected firm will commence immediately following proposal selection.

KRCD reserves the right to alternatively contract with the firm that submits the second highest ranked proposal if terms of a services contract cannot be reconciled with the firm that submits the highest ranked proposal.

More than one (1) proposal option may be submitted for consideration. There are no minimum or maximum size restrictions for proposals. However, responses should be clear and concise yet detailed enough to provide the reviewer(s) with sufficient information about the project team's qualifications and critical aspects of scope, tasks, schedule, and budget.

KRCD will provide the following to assist the selected firm:

- Designate a person to act as the KRCD's point of contact with respect to the work to be performed under the task order services contract.
- Information, as legally allowed and reasonably obtainable, in possession of KRCD that relates to the KRCD's requirements for this project, or which is relevant to this project.
- Assistance discovering and compiling data from KRCD's digital and paper records. Data acquisition will inherently be the responsibility of the selected firm. All records used for this project are considered the property of KRCD and will be returned by the completion of the contract.

The potential for external costs associated with the project is unknown and will be properly considered within the budget of the successful proposal.

During the hydraulic model update project (Project), the selected firm will provide KRCD with progress reports on the timetable agreed to in the services contract. Conclusion of the services contract will be contingent upon deliverables identified in the services contract including data generated for the Project, and draft and final Project reports to KRCD.

A proposal, which is in any way incomplete, irregular, or conditional, at KRCD's discretion, will be rejected.

The consultant is expected to establish and maintain close communication with KRCD staff throughout the Project.

All costs associated with preparation of the response to this Request for Proposals shall be borne by the Consultant.

All proposals submitted in response to this request become the property of KRCD and public record, and as such may be subject to public review.

KRCD reserves the right to request additional information or clarification.

KRCD reserves the right to reject any and all proposals should it deem in its best interest.

KRCD reserves the right to negotiate a final agreement and price with the successful bidder.

INSURANCE REQUIREMENTS

To the extent permitted by law, Consultant shall hold harmless, defend at its own expense, and indemnify Kings River Conservation District, its directors, officers, employees, and authorized volunteers, against any and all liability, claims, losses, damages, or expenses, including reasonable attorney's fees and costs, arising from all acts or omissions of Consultant or its officers, agents, or employees in rendering services under this contract; excluding, however, such liability, claims, losses, damages or expenses arising from Kings River Conservation District sole negligence or willful acts.

Consultant shall procure and maintain for the duration of the contract insurance against claims for injuries or death to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Consultant, his agents, representatives, employees or sub-contractors.

1. **Commercial General Liability (CGL)** - Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 00 01), including products and completed operations, property damage, bodily injury, and personal and advertising injury, with limits of not less than Two Million Dollars (\$2,000,000) per occurrence and Four Million Dollars (\$4,000,000) general aggregate, or the full per-occurrence limits of the policies available, whichever is greater. If a general aggregate limit applies, the general aggregate limit shall apply separately to this project/location (coverage as broad as ISO CG 25 03 or ISO CG 25 04 endorsement provided to Kings River Conservation District), or the general aggregate limit shall be twice the required per-occurrence limit.

2. **Automobile Liability** – (if necessary) Insurance Services Office (ISO) Business Auto Coverage (Form CA 00 01), covering Symbol 1 (any auto) or if Consultant has no owned autos, Symbol 8 (hired) and 9 (non-owned) with limit of one million dollars (\$1,000,000) for bodily injury and property damage each accident.
3. **Workers' Compensation Insurance** - as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease. **Waiver of Subrogation:** The insurer(s) named above agree to waive all rights of subrogation against the Kings River Conservation District, its elected or appointed officers, officials, agents, authorized volunteers and employees for losses paid under the terms of this policy which arise from work performed by the Named Insured for the Agency; but this provision applies regardless of whether or not the Kings River Conservation District, has received a waiver of subrogation from the insurer.
4. **Professional Liability** - Insurance appropriates to the Consultant profession, with limits of no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.
 1. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.
 2. Insurance must be maintained and evidence of insurance must be provided **for at least five (5) years after completion of the contract of work.**
 3. If coverage is canceled or non-renewed and not **replaced with another claims-made policy form with a Retroactive Date** prior to the contract effective date, the Consultant must purchase “extended reporting” coverage for a minimum of **five (5) years after completion of contract work.**

If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, the Kings River Conservation District, requires and shall be entitled to the broader coverage and/or higher limits maintained by the Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the Kings River Conservation District, **Other Required Provisions** - The general liability policy must contain, or be endorsed to contain, the following provisions:

1. **Additional Insured Status:** Kings River Conservation District, its directors, officers, employees, and authorized volunteers are to be given insured status (at least as broad as ISO Form CG 20 10 10 01), with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations.
2. **Primary Coverage:** For any claims related to this project, the Consultant's insurance coverage shall be primary at least as broad as ISO CG 20 01 04 13 as respects to the Kings River Conservation District, its directors, officers, employees and authorized volunteers. Any insurance or self-insurance maintained by the District, its directors, officers, employees and authorized volunteers, shall be excess of the Consultant's insurance and shall not contribute with it.

Notice of Cancellation: Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the Kings River Conservation District,

Self-Insured Retentions - Self-insured retentions must be declared to and approved by the Kings River Conservation District. The District may require the Consultant to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or Kings River Conservation District.

Acceptability of Insurers - Insurance is to be placed with insurers having a current A.M. Best rating of no less than A: VII or as otherwise approved by Kings River Conservation District.

Verification of Coverage - Consultant shall furnish the Kings River Conservation District with certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by Kings River Conservation District before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. Kings River Conservation District reserves the right to require complete, certified copies of all required insurance policies, including policy Declaration pages and Endorsement pages.

Sub-contractors - Consultant shall require and verify that all sub-contractors maintain insurance meeting all the requirements stated herein, and Consultant shall ensure that the district, its directors, officers, employees, and authorized volunteers are an additional insured on Commercial General Liability Coverage.

APPENDIX A

